VeriGuide - Originality Report Individual Report

Background Information

Submission Reference ID:	A198220343693076
School / Institution:	The Hong Kong Polytechnic University
File Name:	SGH2022.pdf
Submitted on:	2022-10-09 09:33:42+0800

Similarity Statistics Overview

Similarity: 27.51%

Sentence(s) Selected By User To 85

Export:

Suspected Sentence:

Similarity Details

Index:	1
Suspected Sentence:	, the gradient of log density function, can achieve this, and new samples can be efficiently generated with score-based sampling algorithms.
Source Content:	5.1 Discrete Data It is non-trivial to develop algorithms on directly generalizing diffusion models (especially score-based generative models) to discrete data, since the score model estimates the score function, gradient of the log-density, which is ill-defined for discrete data.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	2
Suspected Sentence:	Wavegrad: Estimating gradients for waveform generation.
Source Content:	WaveGrad [32] introduces a conditional model for waveform generation that estimates gradients of the data density.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	3
Suspected Sentence:	Wavegrad: Estimating gradients for waveform generation.
Source Content:	WaveGrad: Estimating Gradients for Waveform Generation.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	4

Diffusion models beat gans on image synthesis.

Source Content:	Diffusion models beat gans on image synthesis.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	5
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	6
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International conference on machine learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	7
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International conference on machine learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	8
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Source Content:	In Proceedings of the 39th International Conference on Machine Learning (Proceedings of Machine Learning Research, Vol.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
	internet
	internet
Index:	9
Index: Suspected Sentence:	
	9
Suspected Sentence:	9 In International Conference on Machine Learning, pages 2093–2101. In Proceedings of the 35th International Conference on Machine
Suspected Sentence: Source Content:	9 In International Conference on Machine Learning, pages 2093–2101. In Proceedings of the 35th International Conference on Machine Learning, ICML.
Suspected Sentence: Source Content: Source:	9 In International Conference on Machine Learning, pages 2093–2101. In Proceedings of the 35th International Conference on Machine Learning, ICML. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source:	9 In International Conference on Machine Learning, pages 2093–2101. In Proceedings of the 35th International Conference on Machine Learning, ICML. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 2093–2101. In Proceedings of the 35th International Conference on Machine Learning, ICML. https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 2093–2101. In Proceedings of the 35th International Conference on Machine Learning, ICML. https://arxiv.org/pdf/2209.00796 Internet 10 In International Conference on Machine Learning, pages 2093–2101. In Proceedings of the 39th International Conference on Machine
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 2093–2101. In Proceedings of the 35th International Conference on Machine Learning, ICML. https://arxiv.org/pdf/2209.00796 Internet 10 In International Conference on Machine Learning, pages 2093–2101. In Proceedings of the 39th International Conference on Machine Learning (Proceedings of Machine Learning Research, Vol.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101. In Proceedings of the 35th International Conference on Machine Learning, ICML. https://arxiv.org/pdf/2209.00796 Internet 10 In International Conference on Machine Learning, pages 2093–2101. In Proceedings of the 39th International Conference on Machine

Index:	11
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	12
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Source Content:	In Proceedings of the 28th international conference on machine learning (ICML-11).
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	13
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	14
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In Proceedings of the 39th International Conference on Machine Learning (Proceedings of Machine Learning Research, Vol.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	15
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	16
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	17
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In Proceedings of the 38th International Conference on Machine Learning (Proceedings of Machine Learning Research, Vol.

Courses	https://grain.org/ndf/2200.00700
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	18
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
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From:	Internet
Index:	19
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From:	Internet
Index:	20
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From:	Internet
1 TOTAL	memer
Indev:	21
Index:	21 In International Conference on Machine Learning, pages 2003, 2101
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning.
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning.
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 22 In International Conference on Machine Learning, pages 2093–2101.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 22 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 22 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 22 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 22 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 22 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 23 In International Conference on Machine Learning, pages 2093–2101. In Proceedings of the 32nd International Conference on Machine
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 22 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 23 In International Conference on Machine Learning, pages 2093–2101. In Proceedings of the 32nd International Conference on Machine Learning, ICML, Francis R.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 22 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 23 In International Conference on Machine Learning, pages 2093–2101. In Proceedings of the 32nd International Conference on Machine
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: Source: From:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 22 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 23 In International Conference on Machine Learning, pages 2093–2101. In Proceedings of the 32nd International Conference on Machine Learning, ICML, Francis R.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: Source: Source Content:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 22 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 23 In International Conference on Machine Learning, pages 2093–2101. In Proceedings of the 32nd International Conference on Machine Learning, ICML, Francis R. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: Source: Source Content:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 22 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 23 In International Conference on Machine Learning, pages 2093–2101. In Proceedings of the 32nd International Conference on Machine Learning, ICML, Francis R. https://arxiv.org/pdf/2209.00796

Source Content:	In Proceedings of the 25th international conference on Machine learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	25
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2
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From:	Internet
Index:	26
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Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	27
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Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
	28
Index:	
Index: Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2
	In International Conference on Machine Learning, pages 2093–2 In International Conference on Machine Learning.
Suspected Sentence:	
Suspected Sentence: Source Content:	
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Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 29 Cascaded diffusion models for high fidelity image generation. Cascaded Diffusion Models (CDM) [83] consists of cascaded mudiffusion models which generate images of gradually increasing
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Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 29 Cascaded diffusion models for high fidelity image generation. Cascaded Diffusion Models (CDM) [83] consists of cascaded mudiffusion models which generate images of gradually increasing resolution. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 29 Cascaded diffusion models for high fidelity image generation. Cascaded Diffusion Models (CDM) [83] consists of cascaded mudiffusion models which generate images of gradually increasing resolution.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 29 Cascaded diffusion models for high fidelity image generation. Cascaded Diffusion Models (CDM) [83] consists of cascaded mudiffusion models which generate images of gradually increasing resolution. https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 29 Cascaded diffusion models for high fidelity image generation. Cascaded Diffusion Models (CDM) [83] consists of cascaded mudiffusion models which generate images of gradually increasing resolution. https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 29 Cascaded diffusion models for high fidelity image generation. Cascaded Diffusion Models (CDM) [83] consists of cascaded mudiffusion models which generate images of gradually increasing resolution. https://arxiv.org/pdf/2209.00796 Internet 30 Cascaded diffusion models for high fidelity image generation.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 29 Cascaded diffusion models for high fidelity image generation. Cascaded Diffusion Models (CDM) [83] consists of cascaded mudiffusion models which generate images of gradually increasing resolution. https://arxiv.org/pdf/2209.00796 Internet 30

Index:	31
Suspected Sentence:	Estimation of non-normalized statistical models by score matching.
Source Content:	Estimation of Non-Normalized Statistical Models by Score Matching.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	32
Suspected Sentence:	[24] Kong, Z., Ping, W., Huang, J., Zhao, K., and Catanzaro, B.
Source Content:	[116] Zhifeng Kong, Wei Ping, Jiaji Huang, Kexin Zhao, and Bryan Catanzaro.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	33
Suspected Sentence:	Diffwave: A versatile diffusion model for audio synthesis.
Source Content:	DiffWave: A Versatile Diffusion Model for Audio Synthesis.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	34
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	35
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International conference on machine learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	36
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International conference on machine learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	37
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In Proceedings of the 39th International Conference on Machine Learning (Proceedings of Machine Learning Research, Vol.
Source:	https://arxiv.org/pdf/2209.00796

From:	Internet
Index:	38
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In Proceedings of the 35th International Conference on Machine Learning, ICML.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
110111.	memer
Index:	39
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In Proceedings of the 39th International Conference on Machine Learning (Proceedings of Machine Learning Research, Vol.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	40
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	41
Index: Suspected Sentence:	In International conference on machine learning, pages 276–284.
Suspected Sentence:	In International conference on machine learning, pages 276–284. In Proceedings of the 28th international conference on machine
Suspected Sentence: Source Content:	In International conference on machine learning, pages 276–284. In Proceedings of the 28th international conference on machine learning (ICML-11).
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Suspected Sentence: Source Content: Source:	In International conference on machine learning, pages 276–284. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From:	In International conference on machine learning, pages 276–284. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From:	In International conference on machine learning, pages 276–284. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International conference on machine learning, pages 276–284. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796 Internet 42 In International conference on machine learning, pages 276–284.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International conference on machine learning, pages 276–284. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796 Internet 42 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International conference on machine learning, pages 276–284. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796 Internet 42 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International conference on machine learning, pages 276–284. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796 Internet 42 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International conference on machine learning, pages 276–284. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796 Internet 42 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International conference on machine learning, pages 276–284. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796 Internet 42 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International conference on machine learning, pages 276–284. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796 Internet 42 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 43 In International conference on machine learning, pages 276–284. In Proceedings of the 39th International Conference on Machine
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: Source: Source Content: Source: Source Content:	In International conference on machine learning, pages 276–284. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796 Internet 42 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 43 In International conference on machine learning, pages 276–284. In Proceedings of the 39th International Conference on Machine Learning (Proceedings of Machine Learning Research, Vol.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: Source Content:	In International conference on machine learning, pages 276–284. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796 Internet 42 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 43 In International conference on machine learning, pages 276–284. In Proceedings of the 39th International Conference on Machine Learning (Proceedings of Machine Learning Research, Vol. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: Source Content:	In International conference on machine learning, pages 276–284. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796 Internet 42 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 43 In International conference on machine learning, pages 276–284. In Proceedings of the 39th International Conference on Machine Learning (Proceedings of Machine Learning Research, Vol. https://arxiv.org/pdf/2209.00796

Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
110111.	
Index:	45
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	46
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In Proceedings of the 38th International Conference on Machine
	Learning (Proceedings of Machine Learning Research, Vol.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	47
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	48
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	49
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International conference on machine learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	50
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	51
Suspected Sentence:	In International conference on machine learning, pages 276–284.

Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	52
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In Proceedings of the 32nd International Conference on Machine Learning, ICML, Francis R.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	53
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In Proceedings of the 25th international conference on Machine learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	54
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	55
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	56
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	57
Suspected Sentence:	In International conference on machine learning, pages 276–284.
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Source:	https://arxiv.org/pdf/2209.00796

Index:	58
Suspected Sentence:	[36] Popov, V., Vovk, I., Gogoryan, V., Sadekova, T., and Kudinov, M.
Source Content:	[165] Vadim Popov, Ivan Vovk, Vladimir Gogoryan, Tasnima Sadekova, and Mikhail Kudinov.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	59
Suspected Sentence:	Grad-tts: A diffusion probabilistic model for text-to-speech.
Source Content:	Grad-TTS [165] presents a novel text-to-speech model with a score-based decoder and diffusion models.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	60
Suspected Sentence:	Grad-tts: A diffusion probabilistic model for text-to-speech.
Source Content:	Grad-TTS: A Diffusion Probabilistic Model for Text-to-Speech.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	61
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	62
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International conference on machine learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	63
Suspected Sentence:	la latamatica al Ocufacaca de Madrica I comica a secono 0000
	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International conference on machine learning.
Source:	In International conference on machine learning. https://arxiv.org/pdf/2209.00796
	In International conference on machine learning.
Source: From:	In International conference on machine learning. https://arxiv.org/pdf/2209.00796 Internet
Source: From: Index:	In International conference on machine learning. https://arxiv.org/pdf/2209.00796 Internet
Source: From: Index: Suspected Sentence:	In International conference on machine learning. https://arxiv.org/pdf/2209.00796 Internet 64 In International Conference on Machine Learning, pages 8599–8608.
Source: From: Index:	In International conference on machine learning. https://arxiv.org/pdf/2209.00796 Internet

From:	Internet
Index:	65
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In Proceedings of the 35th International Conference on Machine
	Learning, ICML.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	66
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In Proceedings of the 39th International Conference on Machine
	Learning (Proceedings of Machine Learning Research, Vol.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	67
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	68
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608. In Proceedings of the 28th international conference on machine
Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 8599–8608. In Proceedings of the 28th international conference on machine learning (ICML-11).
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 8599–8608. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 8599–8608. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 8599–8608. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 8599–8608. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796 Internet 69 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 8599–8608. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796 Internet 69 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 8599–8608. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796 Internet 69 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 8599–8608. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796 Internet 69 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 8599–8608. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796 Internet 69 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796 Internet 69 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 70 In International Conference on Machine Learning, pages 8599–8608.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 8599–8608. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796 Internet 69 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796 Internet 69 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 70 In International Conference on Machine Learning, pages 8599–8608. In Proceedings of the 39th International Conference on Machine
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: Source Content: Source: Source Content:	In International Conference on Machine Learning, pages 8599–8608. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796 Internet 69 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 70 In International Conference on Machine Learning, pages 8599–8608. In Proceedings of the 39th International Conference on Machine Learning (Proceedings of Machine Learning Research, Vol.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: Source: Source Content: Source: Source Content:	In International Conference on Machine Learning, pages 8599–8608. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796 Internet 69 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 70 In International Conference on Machine Learning, pages 8599–8608. In Proceedings of the 39th International Conference on Machine Learning (Proceedings of Machine Learning Research, Vol. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: Source: Source Content: Source: Source Content:	In International Conference on Machine Learning, pages 8599–8608. In Proceedings of the 28th international conference on machine learning (ICML-11). https://arxiv.org/pdf/2209.00796 Internet 69 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 70 In International Conference on Machine Learning, pages 8599–8608. In Proceedings of the 39th International Conference on Machine Learning (Proceedings of Machine Learning Research, Vol. https://arxiv.org/pdf/2209.00796

Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	72
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	73
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In Proceedings of the 38th International Conference on Machine
Source Content.	Learning (Proceedings of Machine Learning Research, Vol.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	74
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
30a100.	11ttps://dixtv:org/pdi/2200.00100
From:	Internet
From:	Internet
Index:	75
	75 In International Conference on Machine Learning, pages 8599–8608.
Index: Suspected Sentence: Source Content:	75 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning.
Index: Suspected Sentence: Source Content: Source:	75 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796
Index: Suspected Sentence: Source Content:	75 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning.
Index: Suspected Sentence: Source Content: Source: From:	75 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet
Index: Suspected Sentence: Source Content: Source: From:	75 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	75 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 76 In International Conference on Machine Learning, pages 8599–8608.
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	75 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 76 In International Conference on Machine Learning, pages 8599–8608. In International conference on machine learning.
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	75 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 76 In International Conference on Machine Learning, pages 8599–8608. In International conference on machine learning. https://arxiv.org/pdf/2209.00796
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	75 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 76 In International Conference on Machine Learning, pages 8599–8608. In International conference on machine learning.
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 76 In International Conference on Machine Learning, pages 8599–8608. In International conference on machine learning. https://arxiv.org/pdf/2209.00796 Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 76 In International Conference on Machine Learning, pages 8599–8608. In International conference on machine learning. https://arxiv.org/pdf/2209.00796 Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 76 In International Conference on Machine Learning, pages 8599–8608. In International conference on machine learning. https://arxiv.org/pdf/2209.00796 Internet 77 In International Conference on Machine Learning, pages 8599–8608.
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 76 In International Conference on Machine Learning, pages 8599–8608. In International conference on machine learning. https://arxiv.org/pdf/2209.00796 Internet 77 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning.
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: Source: Source Content: Source: Source Content: Source: Source Content:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 76 In International Conference on Machine Learning, pages 8599–8608. In International conference on machine learning. https://arxiv.org/pdf/2209.00796 Internet 77 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 76 In International Conference on Machine Learning, pages 8599–8608. In International conference on machine learning. https://arxiv.org/pdf/2209.00796 Internet 77 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning.
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: Source: Source Content: Source: Source Content: Source: Source Content:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 76 In International Conference on Machine Learning, pages 8599–8608. In International conference on machine learning. https://arxiv.org/pdf/2209.00796 Internet 77 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796

In International Conference on Machine Learning, pages 8599–8608.

Suspected Sentence:

Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
T TOTTI.	memet
Index:	79
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In Proceedings of the 32nd International Conference on Machine
	Learning, ICML, Francis R.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	80
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In Proceedings of the 25th international conference on Machine learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	81
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	82
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	83
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	84
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet

Index:	85
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	86
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International conference on machine learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	87
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International conference on machine learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	88
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In Proceedings of the 39th International Conference on Machine
	Learning (Proceedings of Machine Learning Research, Vol.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	89
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In Proceedings of the 35th International Conference on Machine
	Learning, ICML.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	90
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In Proceedings of the 39th International Conference on Machine
	Learning (Proceedings of Machine Learning Research, Vol.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	91
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796

From:	Internet
Index:	92
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In Proceedings of the 28th international conference on machine learning (ICML-11).
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	93
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	94
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In Proceedings of the 39th International Conference on Machine
	Learning (Proceedings of Machine Learning Research, Vol.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	95
Index: Suspected Sentence:	95 In International Conference on Machine Learning, pages 4644–4653.
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning.
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 96 In International Conference on Machine Learning, pages 4644–4653.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 96 In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 96 In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 96 In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 96 In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 96 In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 96 In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 97 In International Conference on Machine Learning, pages 4644–4653.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 96 In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 97 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 38th International Conference on Machine
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: So	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 96 In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 97 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 38th International Conference on Machine Learning (Proceedings of Machine Learning Research, Vol.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 96 In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 97 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 38th International Conference on Machine Learning (Proceedings of Machine Learning Research, Vol. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 96 In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 97 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 38th International Conference on Machine Learning (Proceedings of Machine Learning Research, Vol. https://arxiv.org/pdf/2209.00796

Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	99
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	100
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International conference on machine learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	101
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
From:	Internet
From: Index:	Internet 102
Index:	102
Index: Suspected Sentence:	102 In International Conference on Machine Learning, pages 4644–4653.
Index: Suspected Sentence: Source Content:	102 In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning.
Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796
Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796
Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet
Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 103 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 32nd International Conference on Machine
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 103 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 32nd International Conference on Machine Learning, ICML, Francis R.
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 103 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 32nd International Conference on Machine Learning, ICML, Francis R. https://arxiv.org/pdf/2209.00796
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 103 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 32nd International Conference on Machine Learning, ICML, Francis R. https://arxiv.org/pdf/2209.00796
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 103 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 32nd International Conference on Machine Learning, ICML, Francis R. https://arxiv.org/pdf/2209.00796 Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 103 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 32nd International Conference on Machine Learning, ICML, Francis R. https://arxiv.org/pdf/2209.00796 Internet 104
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 103 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 32nd International Conference on Machine Learning, ICML, Francis R. https://arxiv.org/pdf/2209.00796 Internet 104 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 25th international conference on Machine
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: So	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 103 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 32nd International Conference on Machine Learning, ICML, Francis R. https://arxiv.org/pdf/2209.00796 Internet 104 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 25th international conference on Machine learning.

Index:	105
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	106
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	107
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	108
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	109
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Suspected Sentence:	Generative modeling by estimating gradients of the data distribution.
Suspected Sentence: Source Content:	WaveGrad [32] introduces a conditional model for waveform
Source Content:	WaveGrad [32] introduces a conditional model for waveform generation that estimates gradients of the data density.
Source Content:	WaveGrad [32] introduces a conditional model for waveform generation that estimates gradients of the data density. https://arxiv.org/pdf/2209.00796
Source Content:	WaveGrad [32] introduces a conditional model for waveform generation that estimates gradients of the data density.
Source Content: Source: From:	WaveGrad [32] introduces a conditional model for waveform generation that estimates gradients of the data density. https://arxiv.org/pdf/2209.00796 Internet
Source Content: Source: From: Index:	WaveGrad [32] introduces a conditional model for waveform generation that estimates gradients of the data density. https://arxiv.org/pdf/2209.00796 Internet
Source Content: Source: From: Index: Suspected Sentence:	WaveGrad [32] introduces a conditional model for waveform generation that estimates gradients of the data density. https://arxiv.org/pdf/2209.00796 Internet 110 Generative modeling by estimating gradients of the data distribution.
Source Content: Source: From: Index: Suspected Sentence: Source Content:	WaveGrad [32] introduces a conditional model for waveform generation that estimates gradients of the data density. https://arxiv.org/pdf/2209.00796 Internet 110 Generative modeling by estimating gradients of the data distribution. Generative modeling by estimating gradients of the data distribution.
Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	WaveGrad [32] introduces a conditional model for waveform generation that estimates gradients of the data density. https://arxiv.org/pdf/2209.00796 Internet 110 Generative modeling by estimating gradients of the data distribution. Generative modeling by estimating gradients of the data distribution. https://arxiv.org/pdf/2209.00796
Source Content: Source: From: Index: Suspected Sentence: Source Content:	WaveGrad [32] introduces a conditional model for waveform generation that estimates gradients of the data density. https://arxiv.org/pdf/2209.00796 Internet 110 Generative modeling by estimating gradients of the data distribution. Generative modeling by estimating gradients of the data distribution.
Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	WaveGrad [32] introduces a conditional model for waveform generation that estimates gradients of the data density. https://arxiv.org/pdf/2209.00796 Internet 110 Generative modeling by estimating gradients of the data distribution. Generative modeling by estimating gradients of the data distribution. https://arxiv.org/pdf/2209.00796
Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	WaveGrad [32] introduces a conditional model for waveform generation that estimates gradients of the data density. https://arxiv.org/pdf/2209.00796 Internet 110 Generative modeling by estimating gradients of the data distribution. Generative modeling by estimating gradients of the data distribution. https://arxiv.org/pdf/2209.00796 Internet
Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	WaveGrad [32] introduces a conditional model for waveform generation that estimates gradients of the data density. https://arxiv.org/pdf/2209.00796 Internet 110 Generative modeling by estimating gradients of the data distribution. Generative modeling by estimating gradients of the data distribution. https://arxiv.org/pdf/2209.00796 Internet 111 Improved techniques for training score-based generative models. Training and sampling are decoupled in score-based generative
Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	WaveGrad [32] introduces a conditional model for waveform generation that estimates gradients of the data density. https://arxiv.org/pdf/2209.00796 Internet 110 Generative modeling by estimating gradients of the data distribution. Generative modeling by estimating gradients of the data distribution. https://arxiv.org/pdf/2209.00796 Internet 111 Improved techniques for training score-based generative models. Training and sampling are decoupled in score-based generative models.
Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	WaveGrad [32] introduces a conditional model for waveform generation that estimates gradients of the data density. https://arxiv.org/pdf/2209.00796 Internet 110 Generative modeling by estimating gradients of the data distribution. Generative modeling by estimating gradients of the data distribution. https://arxiv.org/pdf/2209.00796 Internet 111 Improved techniques for training score-based generative models. Training and sampling are decoupled in score-based generative

Index:	112
Suspected Sentence:	Improved techniques for training score-based generative models.
Source Content:	Improved Techniques for Training Score-Based Generative Models.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	113
Suspected Sentence:	Score-based generative modeling through stochastic differential equations.
Source Content:	Score-based Generative Modeling of Graphs via the System of Stochastic Differential Equations.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	114
Suspected Sentence:	Score-based generative modeling through stochastic differential equations.
Source Content:	Score-based Generative Modeling of Graphs via the System of Stochastic Differential Equations.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	115
Suspected Sentence:	Score-based generative modeling through stochastic differential equations.
Source Content:	Score-Based Generative Modeling through Stochastic Differential Equations.
Source:	_4.6.1.6.1
Jourte.	https://arxiv.org/pdf/2209.00796
From:	
	https://arxiv.org/pdf/2209.00796
	https://arxiv.org/pdf/2209.00796
From:	https://arxiv.org/pdf/2209.00796 Internet
From: Index:	https://arxiv.org/pdf/2209.00796 Internet 116
From: Index: Suspected Sentence:	https://arxiv.org/pdf/2209.00796 Internet 116 A connection between score matching and denoising autoencoders.
Index: Suspected Sentence: Source Content:	Internet 116 A connection between score matching and denoising autoencoders. A connection between score matching and denoising autoencoders.
Index: Suspected Sentence: Source Content: Source:	https://arxiv.org/pdf/2209.00796 Internet 116 A connection between score matching and denoising autoencoders. A connection between score matching and denoising autoencoders. https://arxiv.org/pdf/2209.00796
Index: Suspected Sentence: Source Content: Source:	https://arxiv.org/pdf/2209.00796 Internet 116 A connection between score matching and denoising autoencoders. A connection between score matching and denoising autoencoders. https://arxiv.org/pdf/2209.00796
Index: Suspected Sentence: Source Content: Source: From:	Internet 116 A connection between score matching and denoising autoencoders. A connection between score matching and denoising autoencoders. https://arxiv.org/pdf/2209.00796 Internet
Index: Suspected Sentence: Source Content: Source: From:	Internet 116 A connection between score matching and denoising autoencoders. A connection between score matching and denoising autoencoders. https://arxiv.org/pdf/2209.00796 Internet 117 In International Conference on Machine Learning, pages
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	Internet 116 A connection between score matching and denoising autoencoders. A connection between score matching and denoising autoencoders. https://arxiv.org/pdf/2209.00796 Internet 117 In International Conference on Machine Learning, pages 11513–11522.

Index:	118
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International conference on machine learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	119
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International conference on machine learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	120
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In Proceedings of the 39th International Conference on Machine Learning (Proceedings of Machine Learning Research, Vol.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	121
Index: Suspected Sentence:	121 In International Conference on Machine Learning, pages 11513–11522.
	In International Conference on Machine Learning, pages
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 35th International Conference on Machine
Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 35th International Conference on Machine Learning, ICML.
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 35th International Conference on Machine Learning, ICML. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 35th International Conference on Machine Learning, ICML. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 35th International Conference on Machine Learning, ICML. https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 35th International Conference on Machine Learning, ICML. https://arxiv.org/pdf/2209.00796 Internet 122 In International Conference on Machine Learning, pages
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 35th International Conference on Machine Learning, ICML. https://arxiv.org/pdf/2209.00796 Internet 122 In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 39th International Conference on Machine
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 35th International Conference on Machine Learning, ICML. https://arxiv.org/pdf/2209.00796 Internet 122 In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 39th International Conference on Machine Learning (Proceedings of Machine Learning Research, Vol.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 35th International Conference on Machine Learning, ICML. https://arxiv.org/pdf/2209.00796 Internet 122 In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 39th International Conference on Machine Learning (Proceedings of Machine Learning Research, Vol. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 35th International Conference on Machine Learning, ICML. https://arxiv.org/pdf/2209.00796 Internet 122 In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 39th International Conference on Machine Learning (Proceedings of Machine Learning Research, Vol. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 35th International Conference on Machine Learning, ICML. https://arxiv.org/pdf/2209.00796 Internet 122 In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 39th International Conference on Machine Learning (Proceedings of Machine Learning Research, Vol. https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 35th International Conference on Machine Learning, ICML. https://arxiv.org/pdf/2209.00796 Internet 122 In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 39th International Conference on Machine Learning (Proceedings of Machine Learning Research, Vol. https://arxiv.org/pdf/2209.00796 Internet 123 In International Conference on Machine Learning, pages
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 35th International Conference on Machine Learning, ICML. https://arxiv.org/pdf/2209.00796 Internet 122 In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 39th International Conference on Machine Learning (Proceedings of Machine Learning Research, Vol. https://arxiv.org/pdf/2209.00796 Internet 123 In International Conference on Machine Learning, pages 11513–11522.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Index: Source: From: Index: Source: From:	In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 35th International Conference on Machine Learning, ICML. https://arxiv.org/pdf/2209.00796 Internet 122 In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 39th International Conference on Machine Learning (Proceedings of Machine Learning Research, Vol. https://arxiv.org/pdf/2209.00796 Internet 123 In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning.

Index:	124
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In Proceedings of the 28th international conference on machine learning (ICML-11).
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	125
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	126
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In Proceedings of the 39th International Conference on Machine Learning (Proceedings of Machine Learning Research, Vol.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	127
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	
	Internet
	Internet
Index:	Internet 128
Index: Suspected Sentence:	
	128 In International Conference on Machine Learning, pages
Suspected Sentence:	128 In International Conference on Machine Learning, pages 11513–11522.
Suspected Sentence: Source Content:	128 In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning.
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 129 In International Conference on Machine Learning, pages
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 129 In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 38th International Conference on Machine

Internet

From:

Index:	130
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	131
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	132
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International conference on machine learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	133
Index: Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
	In International Conference on Machine Learning, pages
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning.
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 134 In International Conference on Machine Learning, pages
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 134 In International Conference on Machine Learning, pages 11513–11522.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 134 In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 134 In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 134 In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 134 In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 134 In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 135 In International Conference on Machine Learning, pages
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 134 In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 135 In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 32nd International Conference on Machine
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 134 In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 135 In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 32nd International Conference on Machine Learning, ICML, Francis R.

Index:	136
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In Proceedings of the 25th international conference on Machine learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	137
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	138
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet
Index:	139
Index: Suspected Sentence:	139 In International Conference on Machine Learning, pages 11513–11522.
	In International Conference on Machine Learning, pages
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning.
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 140 In International Conference on Machine Learning, pages
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 140 In International Conference on Machine Learning, pages 11513–11522.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 140 In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 140 In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 140 In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet 140 In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/2209.00796 Internet

densities.

Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	142
Suspected Sentence:	, 2014), autoencoders as its denoising variants (Vincent, 2011), sliced score matching (Song et al.
Source Content:	, 2019), its denoising variants as autoencoders (Vincent, 2011), nonparametric score matching (Sriperumbudur et al.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	143
Suspected Sentence:	, 2017), and kernel estimators based on Stein's methods (Li and Turner, 2017; Shi et al.
Source Content:	Kernel estimators based on Stein's methods or score matching have shown promise, however their theoretical properties and relationships have not been fully-understood.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	144
Suspected Sentence:	, 2017), and kernel estimators based on Stein's methods (Li and Turner, 2017; Shi et al.
Source Content:	, 2018), and kernel score estimators based on Stein's methods (Li $\&$ Turner, 2018; Shi et al.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	145
Suspected Sentence:	, 2015), learning implicit models(Warde-Farley and Bengio, 2016), solving intractability in approximate inference algorithms(Sun et al.
Source Content:	, 2015), learning implicit models (Warde-Farley & Bengio, 2016), and solving intractability in approximate inference algorithms (Sun et al.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	146
Suspected Sentence:	, 2019), estimating gradients of mutual information for representation learning (Wen et al.
Source Content:	They have been successfully applied to applications such as estimating gradients of mutual information for representation learning (Wen et al.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf

Index:	147
Suspected Sentence:	, 2019), estimating gradients of mutual information for representation learning (Wen et al.
Source Content:	Mutual information gradient estimation for representation learning.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	148
Suspected Sentence:	(2017) with score estimations based Stein's methods (Li and Turner, 2017; Shi et al.
Source Content:	Kernel estimators based on Stein's methods or score matching have shown promise, however their theoretical properties and relationships have not been fully-understood.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	149
Suspected Sentence:	(2017) with score estimations based Stein's methods (Li and Turner, 2017; Shi et al.
Source Content:	, 2018), and kernel score estimators based on Stein's methods (Li & Turner, 2018; Shi et al.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	150
Suspected Sentence:	(2017) with score estimations based Stein's methods (Li and Turner, 2017; Shi et al.
Source Content:	We mainly compare the following score estimators1 : Existing nonparametric estimators: Stein (Li & Turner, 2018), SSGE (Shi et al.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	151
Suspected Sentence:	For denoising autoencoders as variant of score-matching estimation, Block et al.
Source Content:	, 2019), its denoising variants as autoencoders (Vincent, 2011), nonparametric score matching (Sriperumbudur et al.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	152
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	Proceedings of the 37th International Conference on Machine Learning, Online, PMLR 119, 2020.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf

From:	Internet
Index:	153
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning, pp.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	154
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning, pp.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	155
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning, pp.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	156
Suspected Sentence:	Estimation of non-normalized statistical models by score matching.
Source Content:	Estimation of non-normalized statistical models by score matching.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	157
Suspected Sentence:	A kernelized stein discrepancy for goodness-of-fit tests.
Source Content:	A kernelized stein discrepancy for goodness-of-fit tests.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	158
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	Proceedings of the 37th International Conference on Machine
	Learning, Online, PMLR 119, 2020.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	159
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning, pp.
Course	http://proceedings.mlr.proce/v110/zhou20s/zhou20s.ndf

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From:	Internet
Index:	160
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning, pp.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	161
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning, pp.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	162
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	Proceedings of the 37th International Conference on Machine
	Learning, Online, PMLR 119, 2020.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
	400
Index:	163
Index: Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp.
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet 164 In International Conference on Machine Learning, pages 8599–8608.
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet 164 In International Conference on Machine Learning, pages 8599–8608.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet 164 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet 164 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet 164 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet 164 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet 164 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet 164 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet 165 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet 164 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet 165 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 8599–8608.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: Source Content: Source: Source Content: Source: Source Content: Source Content:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet 164 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet 165 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: Source Content: Source: Source Content: Source: Source Content: Source Content:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet 164 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet 165 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source: From:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet 164 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet 165 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet

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Index: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 19–34. Source Content: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pp. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf From: Index: 168 Suspected Sentence: A spectral approach to gradient estimation for implicit distributions. Source Content: A spectral approach to gradient estimation for implicit distributions. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf From: Internet Index: 169 Suspected Sentence: In International Conference on Machine Learning, pages 4644–4653. Source Content: Proceedings of the 37th International Conference on Machine Learning, Online, PMLR 119, 2020. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf	Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
Suspected Sentence: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 19–34. Source Content: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pp. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf From: Internet Index: 168 Suspected Sentence: A spectral approach to gradient estimation for implicit distributions. Source Content: A spectral approach to gradient estimation for implicit distributions. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf From: Internet Index: 169 Suspected Sentence: In International Conference on Machine Learning, pages 4644–4653. Source Content: Proceedings of the 37th International Conference on Machine Learning, Online, PMLR 119, 2020. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf	From:	Internet
Suspected Sentence: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 19–34. Source Content: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pp. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf From: Internet Index: 168 Suspected Sentence: A spectral approach to gradient estimation for implicit distributions. Source Content: A spectral approach to gradient estimation for implicit distributions. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf From: Internet Index: 169 Suspected Sentence: In International Conference on Machine Learning, pages 4644–4653. Source Content: Proceedings of the 37th International Conference on Machine Learning, Online, PMLR 119, 2020. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf		
Discovery in Databases, pages 19–34. Source Content: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pp. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf From: Internet Index: 168 Suspected Sentence: A spectral approach to gradient estimation for implicit distributions. Source Content: A spectral approach to gradient estimation for implicit distributions. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf From: Internet Index: 169 Suspected Sentence: In International Conference on Machine Learning, pages 4644–4653. Source Content: Proceedings of the 37th International Conference on Machine Learning, Online, PMLR 119, 2020. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf	Index:	167
Discovery in Databases, pp. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf From: Internet Index: 168 Suspected Sentence: A spectral approach to gradient estimation for implicit distributions. Source Content: A spectral approach to gradient estimation for implicit distributions. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf From: Internet Index: 169 Suspected Sentence: In International Conference on Machine Learning, pages 4644–4653. Source Content: Proceedings of the 37th International Conference on Machine Learning, Online, PMLR 119, 2020. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf	Suspected Sentence:	•
Index: Index: Index: A spectral approach to gradient estimation for implicit distributions. Source Content: A spectral approach to gradient estimation for implicit distributions. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf From: Internet Index: In International Conference on Machine Learning, pages 4644–4653. Source Content: Proceedings of the 37th International Conference on Machine Learning, Online, PMLR 119, 2020. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf	Source Content:	
Index: Suspected Sentence: A spectral approach to gradient estimation for implicit distributions. Source Content: A spectral approach to gradient estimation for implicit distributions. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf From: Internet Index: 169 Suspected Sentence: In International Conference on Machine Learning, pages 4644–4653. Source Content: Proceedings of the 37th International Conference on Machine Learning, Online, PMLR 119, 2020. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf	Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
Suspected Sentence: A spectral approach to gradient estimation for implicit distributions. Source Content: A spectral approach to gradient estimation for implicit distributions. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet Index: 169 Suspected Sentence: In International Conference on Machine Learning, pages 4644–4653. Source Content: Proceedings of the 37th International Conference on Machine Learning, Online, PMLR 119, 2020. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf	From:	Internet
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Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf From: Internet Index: 169 Suspected Sentence: In International Conference on Machine Learning, pages 4644–4653. Source Content: Proceedings of the 37th International Conference on Machine Learning, Online, PMLR 119, 2020. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf	Suspected Sentence:	A spectral approach to gradient estimation for implicit distributions.
Index: 169 Suspected Sentence: In International Conference on Machine Learning, pages 4644–4653. Source Content: Proceedings of the 37th International Conference on Machine Learning, Online, PMLR 119, 2020. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf	Source Content:	A spectral approach to gradient estimation for implicit distributions.
Index: Suspected Sentence: In International Conference on Machine Learning, pages 4644–4653. Source Content: Proceedings of the 37th International Conference on Machine Learning, Online, PMLR 119, 2020. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf	Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
Suspected Sentence: In International Conference on Machine Learning, pages 4644–4653. Source Content: Proceedings of the 37th International Conference on Machine Learning, Online, PMLR 119, 2020. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf	From:	Internet
Suspected Sentence: In International Conference on Machine Learning, pages 4644–4653. Source Content: Proceedings of the 37th International Conference on Machine Learning, Online, PMLR 119, 2020. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf		
Source Content: Proceedings of the 37th International Conference on Machine Learning, Online, PMLR 119, 2020. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf	Index:	169
Learning, Online, PMLR 119, 2020. Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf	Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
	Source Content:	-
From: Internet	Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
	From:	Internet
Index: 170	Index:	170
Suspected Sentence: In International Conference on Machine Learning, pages 4644–4653.	Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content: In International Conference on Machine Learning, pp.	Source Content:	In International Conference on Machine Learning, pp.
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From: Internet	From:	Internet
Index: 171	Index:	171
Suspected Sentence: In International Conference on Machine Learning, pages 4644–4653.	Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content: In International Conference on Machine Learning, pp.	Source Content:	In International Conference on Machine Learning, pp.
Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf	Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From: Internet	From:	Internet
Index: 172	Index:	172
Suspected Sentence: In International Conference on Machine Learning, pages 4644–4653.	Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content: In International Conference on Machine Learning, pp.	Source Content:	In International Conference on Machine Learning, pp.
Source: http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf	Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From: Internet	From:	Internet

Index:	173
Suspected Sentence:	Generative modeling by estimating gradients of the data distribution.
Source Content:	Generative modeling by estimating gradients of the data distribution.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	174
Suspected Sentence:	Sliced score matching: A scalable approach to density and score estimation.
Source Content:	Sliced score matching: A scalable approach to density and score estimation.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	175
Suspected Sentence:	[52] Sriperumbudur, B., Fukumizu, K., Gretton, A., Hyv¨arinen, A., and Kumar, R.
Source Content:	Sriperumbudur, B., Fukumizu, K., Gretton, A., Hyv arinen, A., and Kumar, R.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	176
Suspected Sentence:	Density estimation in infinite dimensional exponential families.
Source Content:	Density estimation in infinite dimensional exponential families.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
From:	Internet
From: Index:	Internet 177
Index:	177 [54] Strathmann, H., Sejdinovic, D., Livingstone, S., Szabo, Z., and
Index: Suspected Sentence:	177 [54] Strathmann, H., Sejdinovic, D., Livingstone, S., Szabo, Z., and Gretton, A. Strathmann, H., Sejdinovic, D., Livingstone, S., Szabo, Z., and
Index: Suspected Sentence: Source Content:	177 [54] Strathmann, H., Sejdinovic, D., Livingstone, S., Szabo, Z., and Gretton, A. Strathmann, H., Sejdinovic, D., Livingstone, S., Szabo, Z., and Gretton, A.
Index: Suspected Sentence: Source Content: Source:	177 [54] Strathmann, H., Sejdinovic, D., Livingstone, S., Szabo, Z., and Gretton, A. Strathmann, H., Sejdinovic, D., Livingstone, S., Szabo, Z., and Gretton, A. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
Index: Suspected Sentence: Source Content: Source:	177 [54] Strathmann, H., Sejdinovic, D., Livingstone, S., Szabo, Z., and Gretton, A. Strathmann, H., Sejdinovic, D., Livingstone, S., Szabo, Z., and Gretton, A. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
Index: Suspected Sentence: Source Content: Source: From:	177 [54] Strathmann, H., Sejdinovic, D., Livingstone, S., Szabo, Z., and Gretton, A. Strathmann, H., Sejdinovic, D., Livingstone, S., Szabo, Z., and Gretton, A. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet
Index: Suspected Sentence: Source Content: Source: From:	177 [54] Strathmann, H., Sejdinovic, D., Livingstone, S., Szabo, Z., and Gretton, A. Strathmann, H., Sejdinovic, D., Livingstone, S., Szabo, Z., and Gretton, A. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet 178 Gradientfree hamiltonian monte carlo with efficient kernel exponential
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	177 [54] Strathmann, H., Sejdinovic, D., Livingstone, S., Szabo, Z., and Gretton, A. Strathmann, H., Sejdinovic, D., Livingstone, S., Szabo, Z., and Gretton, A. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet 178 Gradientfree hamiltonian monte carlo with efficient kernel exponential families. Gradient-free hamiltonian monte carlo with efficient kernel
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	177 [54] Strathmann, H., Sejdinovic, D., Livingstone, S., Szabo, Z., and Gretton, A. Strathmann, H., Sejdinovic, D., Livingstone, S., Szabo, Z., and Gretton, A. http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf Internet 178 Gradientfree hamiltonian monte carlo with efficient kernel exponential families. Gradient-free hamiltonian monte carlo with efficient kernel exponential families.

Index:	179
Suspected Sentence:	Functional variational bayesian neural networks.
Source Content:	Functional variational Bayesian Neural Networks.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	180
Suspected Sentence:	A connection between score matching and denoising autoencoders.
Source Content:	, 2019), its denoising variants as autoencoders (Vincent, 2011), nonparametric score matching (Sriperumbudur et al.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	181
Suspected Sentence:	A connection between score matching and denoising autoencoders.
Source Content:	A connection between score matching and denoising autoencoders.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	182
Suspected Sentence:	Improving generative adversarial networks with denoising feature matching.
Source Content:	Improving generative adversarial networks with denoising feature matching.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	183
Suspected Sentence:	Mutual information gradient estimation for representation learning.
Source Content:	They have been successfully applied to applications such as estimating gradients of mutual information for representation learning (Wen et al.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	184
Suspected Sentence:	Mutual information gradient estimation for representation learning.
Source Content:	Mutual information gradient estimation for representation learning.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet

Index: 185

Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	Proceedings of the 37th International Conference on Machine Learning, Online, PMLR 119, 2020.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	186
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning, pp.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	187
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning, pp.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	188
Suspected Sentence:	In International Conference on Machine Learning, pages
Suspected Sentence.	11513–11522.
Source Content:	In International Conference on Machine Learning, pp.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet
Index:	189
Suspected Sentence:	Approximating smooth functions by deep neural networks with sigmoid activation function.
Source Content:	In this paper, we construct deep neural networks with rectified power units (RePU), which can give better approximations for smooth functions.
Source:	https://arxiv.org/abs/1909.05136
From:	Internet
Index:	190
Suspected Sentence:	Better approximations of high dimensional smooth functions by deep neural networks with rectified power units.
Source Content:	In this paper, we construct deep neural networks with rectified power units (RePU), which can give better approximations for smooth functions.
Source:	https://arxiv.org/abs/1909.05136
From:	Internet

Index:	191
Suspected Sentence:	Powernet: Efficient representations of polynomials and smooth functions by deep neural networks with rectified power units.
Source Content:	Title:PowerNet: Efficient Representations of Polynomials and Smooth Functions by Deep Neural Networks with Rectified Power Units
Source:	https://arxiv.org/abs/1909.05136
From:	Internet
Index:	192
Suspected Sentence:	Neural Network Learning: Theoretical Foundations.
Source Content:	A Theoretical Analysis on Feature Learning in Neural Networks: Emergence from Inputs and Advantage over Fixed Features
Source:	https://guoqiangwei.xyz/iclr2022_stats/iclr2022_submissions.html
From:	Internet
Index:	193
Suspected Sentence:	Deep network approximation for smooth functions.
Source Content:	Shallow and Deep Networks are Near-Optimal Approximators of Korobov Functions
Source:	https://guoqiangwei.xyz/iclr2022_stats/iclr2022_submissions.html
From:	Internet
Index:	194
Index: Suspected Sentence:	194 For deep neural networks with differentiable activation functions (e.g.
Suspected Sentence:	For deep neural networks with differentiable activation functions (e.g. Title:Nonparametric regression using deep neural networks with
Suspected Sentence: Source Content:	For deep neural networks with differentiable activation functions (e.g. Title:Nonparametric regression using deep neural networks with ReLU activation function
Suspected Sentence: Source Content: Source:	For deep neural networks with differentiable activation functions (e.g. Title:Nonparametric regression using deep neural networks with ReLU activation function https://arxiv.org/abs/1708.06633
Suspected Sentence: Source Content: Source:	For deep neural networks with differentiable activation functions (e.g. Title:Nonparametric regression using deep neural networks with ReLU activation function https://arxiv.org/abs/1708.06633
Suspected Sentence: Source Content: Source: From:	For deep neural networks with differentiable activation functions (e.g. Title:Nonparametric regression using deep neural networks with ReLU activation function https://arxiv.org/abs/1708.06633
Suspected Sentence: Source Content: Source: From:	For deep neural networks with differentiable activation functions (e.g. Title:Nonparametric regression using deep neural networks with ReLU activation function https://arxiv.org/abs/1708.06633 Internet 195 Nonparametric regression using deep neural networks with ReLU 13
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	For deep neural networks with differentiable activation functions (e.g. Title:Nonparametric regression using deep neural networks with ReLU activation function https://arxiv.org/abs/1708.06633 Internet 195 Nonparametric regression using deep neural networks with ReLU 13 activation function (with discussion). Title:Nonparametric regression using deep neural networks with
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	For deep neural networks with differentiable activation functions (e.g. Title:Nonparametric regression using deep neural networks with ReLU activation function https://arxiv.org/abs/1708.06633 Internet 195 Nonparametric regression using deep neural networks with ReLU 13 activation function (with discussion). Title:Nonparametric regression using deep neural networks with ReLU activation function
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	For deep neural networks with differentiable activation functions (e.g. Title:Nonparametric regression using deep neural networks with ReLU activation function https://arxiv.org/abs/1708.06633 Internet 195 Nonparametric regression using deep neural networks with ReLU 13 activation function (with discussion). Title:Nonparametric regression using deep neural networks with ReLU activation function https://arxiv.org/abs/1708.06633
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	For deep neural networks with differentiable activation functions (e.g. Title:Nonparametric regression using deep neural networks with ReLU activation function https://arxiv.org/abs/1708.06633 Internet 195 Nonparametric regression using deep neural networks with ReLU 13 activation function (with discussion). Title:Nonparametric regression using deep neural networks with ReLU activation function https://arxiv.org/abs/1708.06633
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	For deep neural networks with differentiable activation functions (e.g. Title:Nonparametric regression using deep neural networks with ReLU activation function https://arxiv.org/abs/1708.06633 Internet 195 Nonparametric regression using deep neural networks with ReLU 13 activation function (with discussion). Title:Nonparametric regression using deep neural networks with ReLU activation function https://arxiv.org/abs/1708.06633 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	For deep neural networks with differentiable activation functions (e.g. Title:Nonparametric regression using deep neural networks with ReLU activation function https://arxiv.org/abs/1708.06633 Internet 195 Nonparametric regression using deep neural networks with ReLU 13 activation function (with discussion). Title:Nonparametric regression using deep neural networks with ReLU activation function https://arxiv.org/abs/1708.06633 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	For deep neural networks with differentiable activation functions (e.g. Title:Nonparametric regression using deep neural networks with ReLU activation function https://arxiv.org/abs/1708.06633 Internet 195 Nonparametric regression using deep neural networks with ReLU 13 activation function (with discussion). Title:Nonparametric regression using deep neural networks with ReLU activation function https://arxiv.org/abs/1708.06633 Internet 196 Robust nonparametric regression with deep neural networks. Title:Nonparametric regression using deep neural networks with

Index:	197
Suspected Sentence:	, the gradient of log density function, from a set of samples gene by an unknown distribution is a fundamental task in statistics and machine learning.
Source Content:	, the gradient of log density function, from a set of samples gene by an unknown distribution is a fundamental task in inference an learning of probabilistic models that involve flexible yet intractabl densities.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	198
Suspected Sentence:	, 2014), autoencoders as its denoising variants (Vincent, 2011), sliced score matching (Song et al.
Source Content:	, 2019), its denoising variants as autoencoders (Vincent, 2011), nonparametric score matching (Sriperumbudur et al.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	199
Suspected Sentence:	, 2017), and kernel estimators based on Stein's methods (Li and Turner, 2017; Shi et al.
Source Content:	Kernel estimators based on Stein's methods or score matching he shown promise, however their theoretical properties and relationships have not been fully-understood.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index: Suspected Sentence:	200, 2017), and kernel estimators based on Stein's methods (Li and Turner, 2017; Shi et al.
Source Content:	, 2018), and kernel score estimators based on Stein's methods (Turner, 2018; Shi et al.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	201
Suspected Sentence:	, 2015), learning implicit models(Warde-Farley and Bengio, 2016 solving intractability in approximate inference algorithms(Sun et a
Source Content:	, 2015), learning implicit models (Warde-Farley & Bengio, 2016), solving intractability in approximate inference algorithms (Sun et
Source:	https://arxiv.org/pdf/2005.10099
Source.	

Suspected Sentence: , 2019), estimating gradients of mutual inform learning (Wen et al. Source Content: They have been successfully applied to applie estimating gradients of mutual information for (Wen et al. Source: https://arxiv.org/pdf/2005.10099 From: Index: 203 Suspected Sentence: , 2019), estimating gradients of mutual inform learning (Wen et al. Source Content: Mutual information gradient estimation for reposture: https://arxiv.org/pdf/2005.10099 From: Index: Index: 204	cations such as representation learn
estimating gradients of mutual information for (Wen et al. Source: https://arxiv.org/pdf/2005.10099 From: Internet Index: 203 Suspected Sentence: , 2019), estimating gradients of mutual inform learning (Wen et al. Source Content: Mutual information gradient estimation for rep. Source: https://arxiv.org/pdf/2005.10099 From: Internet	representation lear
Index: 203 Suspected Sentence: , 2019), estimating gradients of mutual inform learning (Wen et al. Source Content: Mutual information gradient estimation for rep Source: https://arxiv.org/pdf/2005.10099 From: Internet	
Index: Suspected Sentence: , 2019), estimating gradients of mutual inform learning (Wen et al. Source Content: Mutual information gradient estimation for repostruce: https://arxiv.org/pdf/2005.10099 From: Internet	
Suspected Sentence: , 2019), estimating gradients of mutual inform learning (Wen et al. Source Content: Mutual information gradient estimation for rep Source: https://arxiv.org/pdf/2005.10099 From: Internet	
Source Content: Mutual information gradient estimation for rep Source: https://arxiv.org/pdf/2005.10099 From: Internet	
Source: https://arxiv.org/pdf/2005.10099 From: Internet	resentation learning
From: Internet	
Index: 204	
Index: 204	
Suspected Sentence: (2017) with score estimations based Stein's n 2017; Shi et al.	nethods (Li and Turr
Source Content: Kernel estimators based on Stein's methods of shown promise, however their theoretical properliationships have not been fully-understood.	•
Source: https://arxiv.org/pdf/2005.10099	
From: Internet	
Index: 205	
Suspected Sentence: (2017) with score estimations based Stein's n 2017; Shi et al.	nethods (Li and Turi
Source Content: , 2018), and kernel score estimators based or Turner, 2018; Shi et al.	ո Stein's methods (Լ
Source: https://arxiv.org/pdf/2005.10099	
From: Internet	
Index: 206	
Index: 206 Suspected Sentence: (2017) with score estimations based Stein's n 2017; Shi et al.	nethods (Li and Turi
Suspected Sentence: (2017) with score estimations based Stein's n	ators1 : Existing
Suspected Sentence: (2017) with score estimations based Stein's n 2017; Shi et al. Source Content: We mainly compare the following score estimations	ators1 : Existing
Suspected Sentence: (2017) with score estimations based Stein's n 2017; Shi et al. Source Content: We mainly compare the following score estim nonparametric estimators: Stein (Li & Turner,	ators1 : Existing
Suspected Sentence: (2017) with score estimations based Stein's n 2017; Shi et al. Source Content: We mainly compare the following score estim nonparametric estimators: Stein (Li & Turner, Source: https://arxiv.org/pdf/2005.10099	ators1 : Existing
Suspected Sentence: (2017) with score estimations based Stein's n 2017; Shi et al. Source Content: We mainly compare the following score estim nonparametric estimators: Stein (Li & Turner, Source: https://arxiv.org/pdf/2005.10099	ators1 : Existing
Suspected Sentence: (2017) with score estimations based Stein's n 2017; Shi et al. Source Content: We mainly compare the following score estim nonparametric estimators: Stein (Li & Turner, Source: https://arxiv.org/pdf/2005.10099 From: Internet	ators1 : Existing 2018), SSGE (Shi e

Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	208
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	Proceedings of the 37th International Conference on Machine
Course Contont.	Learning, Vienna, Austria, PMLR 119, 2020.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	209
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning, pp.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	210
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning, pp.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	211
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning, pp.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	212
Suspected Sentence:	Estimation of non-normalized statistical models by score matching.
Source Content:	Estimation of non-normalized statistical models by score matching.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	213
Suspected Sentence:	A kernelized stein discrepancy for goodness-of-fit tests.
Source Content:	A kernelized stein discrepancy for goodness-of-fit tests.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
i ioni.	momot
Indov	
Index: Suspected Sentence:	214 In International conference on machine learning, pages 276–284.

Source Content:	Proceedings of the 37th International Conference on Machine
	Learning, Vienna, Austria, PMLR 119, 2020.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	215
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning, pp.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	216
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning, pp.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	217
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning, pp.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	218
Index: Suspected Sentence:	218 In International Conference on Machine Learning, pages 8599–8608.
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608. Proceedings of the 37th International Conference on Machine
Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 8599–8608. Proceedings of the 37th International Conference on Machine Learning, Vienna, Austria, PMLR 119, 2020.
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 8599–8608. Proceedings of the 37th International Conference on Machine Learning, Vienna, Austria, PMLR 119, 2020. https://arxiv.org/pdf/2005.10099
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 8599–8608. Proceedings of the 37th International Conference on Machine Learning, Vienna, Austria, PMLR 119, 2020. https://arxiv.org/pdf/2005.10099
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 8599–8608. Proceedings of the 37th International Conference on Machine Learning, Vienna, Austria, PMLR 119, 2020. https://arxiv.org/pdf/2005.10099 Internet
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 8599–8608. Proceedings of the 37th International Conference on Machine Learning, Vienna, Austria, PMLR 119, 2020. https://arxiv.org/pdf/2005.10099 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608. Proceedings of the 37th International Conference on Machine Learning, Vienna, Austria, PMLR 119, 2020. https://arxiv.org/pdf/2005.10099 Internet 219 In International Conference on Machine Learning, pages 8599–8608.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 8599–8608. Proceedings of the 37th International Conference on Machine Learning, Vienna, Austria, PMLR 119, 2020. https://arxiv.org/pdf/2005.10099 Internet 219 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 8599–8608. Proceedings of the 37th International Conference on Machine Learning, Vienna, Austria, PMLR 119, 2020. https://arxiv.org/pdf/2005.10099 Internet 219 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2005.10099
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 8599–8608. Proceedings of the 37th International Conference on Machine Learning, Vienna, Austria, PMLR 119, 2020. https://arxiv.org/pdf/2005.10099 Internet 219 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2005.10099
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 8599–8608. Proceedings of the 37th International Conference on Machine Learning, Vienna, Austria, PMLR 119, 2020. https://arxiv.org/pdf/2005.10099 Internet 219 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2005.10099 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608. Proceedings of the 37th International Conference on Machine Learning, Vienna, Austria, PMLR 119, 2020. https://arxiv.org/pdf/2005.10099 Internet 219 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2005.10099 Internet 220 In International Conference on Machine Learning, pages 8599–8608.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source:	In International Conference on Machine Learning, pages 8599–8608. Proceedings of the 37th International Conference on Machine Learning, Vienna, Austria, PMLR 119, 2020. https://arxiv.org/pdf/2005.10099 Internet 219 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2005.10099 Internet 220 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 8599–8608.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608. Proceedings of the 37th International Conference on Machine Learning, Vienna, Austria, PMLR 119, 2020. https://arxiv.org/pdf/2005.10099 Internet 219 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2005.10099 Internet 220 In International Conference on Machine Learning, pages 8599–8608.

Index:	221
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning, pp.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	222
Suspected Sentence:	Clustering via mode seeking by direct estimation of the gradient of a log-density.
Source Content:	Clustering via mode seeking by direct estimation of the gradient of a log-density.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	223
Suspected Sentence:	In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 19–34.
Source Content:	In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pp.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	224
Suspected Sentence:	A spectral approach to gradient estimation for implicit distributions.
Source Content:	A spectral approach to gradient estimation for implicit distributions.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	225
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	Proceedings of the 37th International Conference on Machine Learning, Vienna, Austria, PMLR 119, 2020.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	226
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning, pp.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	227
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning, pp.

Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	228
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning, pp.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	229
Suspected Sentence:	Generative modeling by estimating gradients of the data distribution.
Source Content:	Generative modeling by estimating gradients of the data distribution.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	230
Suspected Sentence:	Sliced score matching: A scalable approach to density and score estimation.
Source Content:	Sliced score matching: A scalable approach to density and score
	estimation.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	231
Suspected Sentence:	[52] Sriperumbudur, B., Fukumizu, K., Gretton, A., Hyv arinen, A.,
	and Kumar, R.
Source Content:	Sriperumbudur, B., Fukumizu, K., Gretton, A., Hyv arinen, A., and
	Kumar, R.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	232
Suspected Sentence:	Density estimation in infinite dimensional exponential families.
Source Content:	Density estimation in infinite dimensional exponential families.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	233
Suspected Sentence:	[54] Strathmann, H., Sejdinovic, D., Livingstone, S., Szabo, Z., and
Guspecteu Gentente.	Gretton, A.
Source Content:	Strathmann, H., Sejdinovic, D., Livingstone, S., Szabo, Z., and
	Gretton, A.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
From:	Internet

Index:	234
Suspected Sentence:	Gradientfree hamiltonian monte carlo with efficient kernel exponential families.
Source Content:	Gradient-free hamiltonian monte carlo with efficient kernel exponential families.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	235
Suspected Sentence:	Functional variational bayesian neural networks.
Source Content:	Functional variational Bayesian Neural Networks.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	236
Suspected Sentence:	A connection between score matching and denoising autoencoders.
Source Content:	, 2019), its denoising variants as autoencoders (Vincent, 2011), nonparametric score matching (Sriperumbudur et al.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	237
Suspected Sentence:	A connection between score matching and denoising autoencoders.
Source Content:	A connection between score matching and denoising autoencoders.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	238
Suspected Sentence:	
	Improving generative adversarial networks with denoising feature matching.
Source Content:	
Source Content:	matching. Improving generative adversarial networks with denoising feature
Source:	matching. Improving generative adversarial networks with denoising feature matching.
Source:	matching. Improving generative adversarial networks with denoising feature matching. https://arxiv.org/pdf/2005.10099
Source: From:	matching. Improving generative adversarial networks with denoising feature matching. https://arxiv.org/pdf/2005.10099
	matching. Improving generative adversarial networks with denoising feature matching. https://arxiv.org/pdf/2005.10099 Internet
Source: From: Index:	matching. Improving generative adversarial networks with denoising feature matching. https://arxiv.org/pdf/2005.10099 Internet
Source: From: Index: Suspected Sentence:	matching. Improving generative adversarial networks with denoising feature matching. https://arxiv.org/pdf/2005.10099 Internet 239 Mutual information gradient estimation for representation learning. They have been successfully applied to applications such as estimating gradients of mutual information for representation learning

Index:	240
Suspected Sentence:	Mutual information gradient estimation for representation learning.
Source Content:	Mutual information gradient estimation for representation learning.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	241
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	Proceedings of the 37th International Conference on Machine Learning, Vienna, Austria, PMLR 119, 2020.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	242
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning, pp.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	243
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning, pp.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	244
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning, pp.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet
Index:	245
Suspected Sentence:	Deep network approximation for smooth functions.
Source Content:	Title:Deep Network Approximation for Smooth Functions
Source:	https://arxiv.org/abs/2001.03040
From:	Internet
Index:	246

Error bounds for approximations with deep relu networks.

Suspected Sentence:

Source Content:	To that end, we first prove that multivariate polynomials can be approximated by deep ReLU networks of width \$\mathcal{O}(N)\$ and depth \$\mathcal{O}(L)\$ with an approximation error \$\mathcal{O}(N^{-L})\$.
Source:	https://arxiv.org/abs/2001.03040
From:	Internet
Index:	247
Suspected Sentence:	Deep quantile regression: Mitigating the curse of dimensionality through composition.
Source Content:	Title:Deep Quantile Regression: Mitigating the Curse of Dimensionality Through Composition
Source:	https://arxiv.org/abs/2107.04907
From:	Internet
Index:	248
Suspected Sentence:	Deep quantile regression: Mitigating the curse of dimensionality through composition.
Source Content:	Therefore, DQR is able to mitigate the curse of dimensionality under the assumption that the conditional quantile function has a compositional structure.
Source:	https://arxiv.org/abs/2107.04907
From:	Internet
Index:	249
Suspected Sentence:	Robust nonparametric regression with deep neural networks.
Source Content:	We study the nonparametric quantile regression estimator using deep neural networks to approximate the target conditional quantile function.
Source:	https://arxiv.org/abs/2107.04907
From:	Internet
Index:	250
Suspected Sentence:	, 2019), estimating gradients of mutual information for representation learning (Wen et al.
Source Content:	Title:Mutual Information Gradient Estimation for Representation Learning
Source:	https://arxiv.org/abs/2005.01123
From:	Internet
Index:	251
Index: Suspected Sentence:	251, 2019), estimating gradients of mutual information for representation learning (Wen et al.

Source:	https://arxiv.org/abs/2005.01123
From:	Internet
Index:	252
Suspected Sentence:	Mutual information gradient estimation for representation learning.
Source Content:	Title:Mutual Information Gradient Estimation for Representation Learning
Source:	https://arxiv.org/abs/2005.01123
From:	Internet
Index:	253
Suspected Sentence:	Mutual information gradient estimation for representation learning.
Source Content:	We argue that directly estimating the gradients of MI is more appealing for representation learning than estimating MI in itself.
Source:	https://arxiv.org/abs/2005.01123
From:	Internet
Index:	254
Suspected Sentence:	Optimal global rates of convergence for nonparametric regression.
Source Content:	December, 1982 Optimal Global Rates of Convergence for Nonparametric Regression Charles J.
Source:	https://projecteuclid.org/journals/annals-of-statistics/volume-10/issue- 4/Optimal-Global-Rates-of-Convergence-for-Nonparametric- Regression/10.1214/aos/1176345969.full
From:	Internet
Index:	255
Suspected Sentence:	Optimal global rates of convergence for nonparametric regression.
Source Content:	"Optimal Global Rates of Convergence for Nonparametric Regression."
Source:	https://projecteuclid.org/journals/annals-of-statistics/volume-10/issue-4/Optimal-Global-Rates-of-Convergence-for-Nonparametric-Regression/10.1214/aos/1176345969.full
From:	Internet
Index:	256
Suspected Sentence:	Optimal global rates of convergence for nonparametric regression.
Source Content:	Keywords: Nonparametric regression, Optimal rate of convergence
Source:	https://projecteuclid.org/journals/annals-of-statistics/volume-10/issue-4/Optimal-Global-Rates-of-Convergence-for-Nonparametric-Regression/10.1214/aos/1176345969.full
From:	Internet
Index:	257
Suspected Sentence:	Optimal global rates of convergence for nonparametric regression.

Source Content:	Stone "Optimal Global Rates of Convergence for Nonparametric Regression," The Annals of Statistics, Ann.
Source:	https://projecteuclid.org/journals/annals-of-statistics/volume-10/issue- 4/Optimal-Global-Rates-of-Convergence-for-Nonparametric- Regression/10.1214/aos/1176345969.full
From:	Internet
Index:	258
Suspected Sentence:	Non-asymptotic excess risk bounds for classification with deep convolutional neural networks.
Source Content:	Title:Non-asymptotic Excess Risk Bounds for Classification with Deep Convolutional Neural Networks
Source:	https://arxiv.org/abs/2105.00292
From:	Internet
Index:	259
Suspected Sentence:	Cascaded diffusion models for high fidelity image generation.
Source Content:	Cascaded Diffusion Models for High Fidelity Image Generation
Source:	https://cascaded-diffusion.github.io/
From:	Internet
Index:	260
Suspected Sentence:	Cascaded diffusion models for high fidelity image generation.
Source Content:	 Cascaded Diffusion Models (CDM) are pipelines of diffusion model that generate images of increasing resolution.
Source:	https://cascaded-diffusion.github.io/
From:	Internet
Index:	261
Suspected Sentence:	Cascaded diffusion models for high fidelity image generation.
Source Content:	Our work is a demonstration of the effectiveness of pure generative models, namely cascaded diffusion models without the assistance of extra image classifiers.
Source:	https://cascaded-diffusion.github.io/
From:	Internet
Index:	262
Suspected Sentence:	ReQU activated deep neural networks simultaneous on smooth function and its derivatives (Shen et al.
Source Content:	To establish these non-asymptotic risk and estimation error bounds, we also develop a new error bound for approximating \$C^s\$ smooth functions with \$s >0\$ and their derivatives using ReQU activated neural networks.
Source:	https://arxiv.org/abs/2207.10442

Index:	263
Suspected Sentence:	Estimation of non-crossing quantile regression process with deep requ neural networks.
Source Content:	Title:Estimation of Non-Crossing Quantile Regression Process with Deep ReQU Neural Networks
Source:	https://arxiv.org/abs/2207.10442
From:	Internet
Index:	264
Suspected Sentence:	Neural Network Learning: Theoretical Foundations.
Source Content:	Neural Network Learning: Theoretical Foundations.
Source:	https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0b 98d114ee3ecb8-Paper.pdf
From:	Internet
Index:	265
Suspected Sentence:	Almost linear vc dimension bounds for piecewise polynomial networks.
Source Content:	Almost Linear VC Dimension Bounds for Piecewise Polynomial Networks Peter L.
Source:	https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0b 98d114ee3ecb8-Paper.pdf
From:	Internet
Index:	266
Suspected Sentence:	Almost linear vc dimension bounds for piecewise polynomial
	networks.
Source Content:	
Source Content:	networks. Almost Linear VC Dimension Boundsfor Piecewise Polynomial
	networks. Almost Linear VC Dimension Boundsfor Piecewise Polynomial Networks 193 Fix these m points, and consider a partition {SI, S2, https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0b
Source:	networks. Almost Linear VC Dimension Boundsfor Piecewise Polynomial Networks 193 Fix these m points, and consider a partition {SI, S2, https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0b 98d114ee3ecb8-Paper.pdf
Source:	networks. Almost Linear VC Dimension Boundsfor Piecewise Polynomial Networks 193 Fix these m points, and consider a partition {SI, S2, https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0b 98d114ee3ecb8-Paper.pdf
Source: From:	networks. Almost Linear VC Dimension Boundsfor Piecewise Polynomial Networks 193 Fix these m points, and consider a partition {SI, S2, https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0b 98d114ee3ecb8-Paper.pdf Internet
Source: From: Index:	networks. Almost Linear VC Dimension Boundsfor Piecewise Polynomial Networks 193 Fix these m points, and consider a partition {SI, S2, https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0b 98d114ee3ecb8-Paper.pdf Internet 267 Almost linear vc dimension bounds for piecewise polynomial
Source: From: Index: Suspected Sentence:	networks. Almost Linear VC Dimension Boundsfor Piecewise Polynomial Networks 193 Fix these m points, and consider a partition {SI, S2, https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0b 98d114ee3ecb8-Paper.pdf Internet 267 Almost linear vc dimension bounds for piecewise polynomial networks. Almost Linear VC Dimension Boundsfor Piecewise Polynomial Networks 195 Theorem 3.1 Suppose f : R -+ R has the following
Source: From: Index: Suspected Sentence: Source Content:	networks. Almost Linear VC Dimension Boundsfor Piecewise Polynomial Networks 193 Fix these m points, and consider a partition {SI, S2, https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0b 98d114ee3ecb8-Paper.pdf Internet 267 Almost linear vc dimension bounds for piecewise polynomial networks. Almost Linear VC Dimension Boundsfor Piecewise Polynomial Networks 195 Theorem 3.1 Suppose f: R -+ R has the following properties: 1. https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0b

Index: 268

Suspected Sentence:	
	Almost linear vc dimension bounds for piecewise polynomial networks.
Source Content:	Almost linear VC-dimension bounds for piecewise polynomial networks.
Source:	https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0b98d114ee3ecb8-Paper.pdf
From:	Internet
Index:	269
Suspected Sentence:	Almost linear vc dimension bounds for piecewise polynomial networks.
Source Content:	Tight bounds for the VC-dimension of piecewise polynomial networks.
Source:	https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0lg98d114ee3ecb8-Paper.pdf
From:	Internet
Index:	270
Suspected Sentence:	Bounding the vapnik-chervonenkis dimension of concept classes parameterized by real numbers.
Source Content:	Bounding the VC Dimension of Concept Classes Parameterized by Real Numbers.
Source:	https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0l 98d114ee3ecb8-Paper.pdf
Source: From:	https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0l 98d114ee3ecb8-Paper.pdf Internet
	98d114ee3ecb8-Paper.pdf
	98d114ee3ecb8-Paper.pdf
From:	98d114ee3ecb8-Paper.pdf Internet
From: Index:	98d114ee3ecb8-Paper.pdf Internet 271
From: Index: Suspected Sentence:	98d114ee3ecb8-Paper.pdf Internet 271 Simultaneous neural network approximation for smooth functions. On the Near Optimality of the Stochastic Approximation of Smooth Functions by Neural Networks.
From: Index: Suspected Sentence: Source Content:	98d114ee3ecb8-Paper.pdf Internet 271 Simultaneous neural network approximation for smooth functions. On the Near Optimality of the Stochastic Approximation of Smooth Functions by Neural Networks. https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0l
From: Index: Suspected Sentence: Source Content: Source:	98d114ee3ecb8-Paper.pdf Internet 271 Simultaneous neural network approximation for smooth functions. On the Near Optimality of the Stochastic Approximation of Smooth Functions by Neural Networks. https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0l98d114ee3ecb8-Paper.pdf
From: Index: Suspected Sentence: Source Content: Source:	98d114ee3ecb8-Paper.pdf Internet 271 Simultaneous neural network approximation for smooth functions. On the Near Optimality of the Stochastic Approximation of Smooth Functions by Neural Networks. https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0l98d114ee3ecb8-Paper.pdf
From: Index: Suspected Sentence: Source Content: Source: From:	98d114ee3ecb8-Paper.pdf Internet 271 Simultaneous neural network approximation for smooth functions. On the Near Optimality of the Stochastic Approximation of Smooth Functions by Neural Networks. https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0l98d114ee3ecb8-Paper.pdf Internet
From: Index: Suspected Sentence: Source Content: Source: From: Index:	98d114ee3ecb8-Paper.pdf Internet 271 Simultaneous neural network approximation for smooth functions. On the Near Optimality of the Stochastic Approximation of Smooth Functions by Neural Networks. https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0l98d114ee3ecb8-Paper.pdf Internet
From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	98d114ee3ecb8-Paper.pdf Internet 271 Simultaneous neural network approximation for smooth functions. On the Near Optimality of the Stochastic Approximation of Smooth Functions by Neural Networks. https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0/98d114ee3ecb8-Paper.pdf Internet 272 Deep network approximation for smooth functions. On the Near Optimality of the Stochastic Approximation of Smooth Functions by Neural Networks.
From: Index: Suspected Sentence: Source Content: From: Index: Suspected Sentence: Source Content:	98d114ee3ecb8-Paper.pdf Internet 271 Simultaneous neural network approximation for smooth functions. On the Near Optimality of the Stochastic Approximation of Smooth Functions by Neural Networks. https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0l98d114ee3ecb8-Paper.pdf Internet 272 Deep network approximation for smooth functions. On the Near Optimality of the Stochastic Approximation of Smooth Functions by Neural Networks. https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0l
From: Index: Suspected Sentence: Source Content: Source: Index: Suspected Sentence: Source Content: Source: Source Content:	98d114ee3ecb8-Paper.pdf Internet 271 Simultaneous neural network approximation for smooth functions. On the Near Optimality of the Stochastic Approximation of Smooth Functions by Neural Networks. https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0l98d114ee3ecb8-Paper.pdf Internet 272 Deep network approximation for smooth functions. On the Near Optimality of the Stochastic Approximation of Smooth Functions by Neural Networks. https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0l98d114ee3ecb8-Paper.pdf
From: Index: Suspected Sentence: Source Content: Source: Index: Suspected Sentence: Source Content: Source: Source Content:	98d114ee3ecb8-Paper.pdf Internet 271 Simultaneous neural network approximation for smooth functions. On the Near Optimality of the Stochastic Approximation of Smooth Functions by Neural Networks. https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0l98d114ee3ecb8-Paper.pdf Internet 272 Deep network approximation for smooth functions. On the Near Optimality of the Stochastic Approximation of Smooth Functions by Neural Networks. https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0l98d114ee3ecb8-Paper.pdf

Source Content:	Nearly-tight vcdimension and pseudodimension bounds for piecewis linear neural networks.
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From:	Internet
Index:	274
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Source:	
From:	https://arxiv.org/pdf/2209.13083
FIOIII.	memet
Index:	275
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–210
Source Content:	In International Conference on Machine Learning, pages 254–263.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet
Index:	276
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–210
Source Content:	In International Conference on Machine Learning, 2018.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet
Index:	277
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–210
Source Content:	In International Conference on Machine Learning, pages 3734–374
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet
	intoot
Index:	278
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–210
Source Content:	In International Conference on Machine Learning, pages 1832–184
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet
la desc	070
Index:	279
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–210
	In Proceedings of the 38th International Conference on Machine
Source Content:	Learning, volume 139, 2021.
Source:	Learning, volume 139, 2021. https://arxiv.org/pdf/2209.13083

Index:	280
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International conference on machine learning, pages 7354–7363.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet
Index:	281
Suspected Sentence:	In Proceedings of the sixth annual conference on Computational learning theory, pages 361–369.
Source Content:	In Proceedings of the twelfth annual conference on Computational learning theory, pages 164–170, 1999.
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From:	Internet
Index:	282
Suspected Sentence:	[16] Gulrajani, I., Ahmed, F., Arjovsky, M., Dumoulin, V., and Courville, A.
Source Content:	[35] Ishaan Gulrajani, Faruk Ahmed, Martin Arjovsky, Vincent Dumoulin, and Aaron C Courville.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet
Index:	283
Index: Suspected Sentence:	283 In International conference on machine learning, pages 276–284.
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Suspected Sentence: Source Content:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 254–263.
Suspected Sentence: Source Content: Source:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 254–263. https://arxiv.org/pdf/2209.13083
Suspected Sentence: Source Content: Source:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 254–263. https://arxiv.org/pdf/2209.13083
Suspected Sentence: Source Content: Source: From:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 254–263. https://arxiv.org/pdf/2209.13083 Internet
Suspected Sentence: Source Content: Source: From:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 254–263. https://arxiv.org/pdf/2209.13083 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 254–263. https://arxiv.org/pdf/2209.13083 Internet 284 In International conference on machine learning, pages 276–284.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 254–263. https://arxiv.org/pdf/2209.13083 Internet 284 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, 2018.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 254–263. https://arxiv.org/pdf/2209.13083 Internet 284 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 254–263. https://arxiv.org/pdf/2209.13083 Internet 284 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 254–263. https://arxiv.org/pdf/2209.13083 Internet 284 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 254–263. https://arxiv.org/pdf/2209.13083 Internet 284 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 254–263. https://arxiv.org/pdf/2209.13083 Internet 284 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083 Internet 285 In International conference on machine learning, pages 276–284.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 254–263. https://arxiv.org/pdf/2209.13083 Internet 284 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083 Internet 285 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 3734–3744.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: Source: Source Content: Source: Source Content: Source: Source Content:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 254–263. https://arxiv.org/pdf/2209.13083 Internet 284 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083 Internet 285 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 3734–3744. https://arxiv.org/pdf/2209.13083
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: Source: Source Content: Source: Source Content: Source: Source Content:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 254–263. https://arxiv.org/pdf/2209.13083 Internet 284 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083 Internet 285 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 3734–3744. https://arxiv.org/pdf/2209.13083
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source: From:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 254–263. https://arxiv.org/pdf/2209.13083 Internet 284 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083 Internet 285 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 3734–3744. https://arxiv.org/pdf/2209.13083 Internet

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Source:

From:	Internet
Index:	287
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In Proceedings of the 38th International Conference on Machine
	Learning, volume 139, 2021.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet
Index:	288
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International conference on machine learning, pages 7354–7363.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet
Index:	289
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning, pages 254–263.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet
	000
Index:	290
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, 2018.
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083 Internet
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083 Internet 291 In International Conference on Machine Learning, pages 8599–8608.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083 Internet 291 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 3734–3744.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083 Internet 291 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 3734–3744. https://arxiv.org/pdf/2209.13083
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083 Internet 291 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 3734–3744. https://arxiv.org/pdf/2209.13083
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083 Internet 291 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 3734–3744. https://arxiv.org/pdf/2209.13083 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083 Internet 291 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 3734–3744. https://arxiv.org/pdf/2209.13083 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083 Internet 291 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 3734–3744. https://arxiv.org/pdf/2209.13083 Internet 292 In International Conference on Machine Learning, pages 8599–8608.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083 Internet 291 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 3734–3744. https://arxiv.org/pdf/2209.13083 Internet 292 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 8599–8608.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: Source Content: Source: Source Content:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083 Internet 291 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 3734–3744. https://arxiv.org/pdf/2209.13083 Internet 292 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 1832–1841. https://arxiv.org/pdf/2209.13083
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: Source Content: Source: Source Content:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083 Internet 291 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 3734–3744. https://arxiv.org/pdf/2209.13083 Internet 292 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 1832–1841. https://arxiv.org/pdf/2209.13083
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source: From:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083 Internet 291 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 3734–3744. https://arxiv.org/pdf/2209.13083 Internet 292 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 1832–1841. https://arxiv.org/pdf/2209.13083 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Index: Index: Index: Index: Index: Index:	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, 2018. https://arxiv.org/pdf/2209.13083 Internet 291 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 3734–3744. https://arxiv.org/pdf/2209.13083 Internet 292 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 1832–1841. https://arxiv.org/pdf/2209.13083 Internet

Learning, volume 139, 2021.

Source:	https://arxiv.org/pdf/2209.13083
From:	Internet
Index:	294
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–
Source Content:	In International conference on machine learning, pages 7354–7
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet
Index:	295
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–
Source Content:	In International Conference on Machine Learning, pages 254–2
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet
Index:	296
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–
Source Content:	In International Conference on Machine Learning, 2018.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet
Index:	297
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–
Source Content:	In International Conference on Machine Learning, pages 3734-
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet
I. I.	000
Index:	298
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Suspected Sentence:	
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Source Content:	In International Conference on Machine Learning, pages 1832– https://arxiv.org/pdf/2209.13083
Source Content:	In International Conference on Machine Learning, pages 1832-
Source Content:	In International Conference on Machine Learning, pages 1832– https://arxiv.org/pdf/2209.13083
Source Content: Source: From:	In International Conference on Machine Learning, pages 1832– https://arxiv.org/pdf/2209.13083 Internet
Source Content: Source: From:	In International Conference on Machine Learning, pages 1832– https://arxiv.org/pdf/2209.13083 Internet 299 In International Conference on Machine Learning, pages 4644– In Proceedings of the 38th International Conference on Machine
Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 1832– https://arxiv.org/pdf/2209.13083 Internet 299 In International Conference on Machine Learning, pages 4644– In Proceedings of the 38th International Conference on Machine Learning, volume 139, 2021.
Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 1832– https://arxiv.org/pdf/2209.13083 Internet 299 In International Conference on Machine Learning, pages 4644– In Proceedings of the 38th International Conference on Machine
Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 1832– https://arxiv.org/pdf/2209.13083 Internet 299 In International Conference on Machine Learning, pages 4644– In Proceedings of the 38th International Conference on Machine Learning, volume 139, 2021. https://arxiv.org/pdf/2209.13083
Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 1832— https://arxiv.org/pdf/2209.13083 Internet 299 In International Conference on Machine Learning, pages 4644— In Proceedings of the 38th International Conference on Machine Learning, volume 139, 2021. https://arxiv.org/pdf/2209.13083
Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	Internet 299 In International Conference on Machine Learning, pages 4644— In Proceedings of the 38th International Conference on Machine Learning, volume 139, 2021. https://arxiv.org/pdf/2209.13083 Internet

Course	https://orgin.org/pdf/2200.42002
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet
Index:	301
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning, pages 254–263.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet
Index:	302
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning, 2018.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet
	<u> </u>
Index:	303
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning, pages 3734–3744.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet
From:	Internet
From: Index:	Internet 304
Index:	304 In International Conference on Machine Learning, pages
Index: Suspected Sentence:	304 In International Conference on Machine Learning, pages 11513–11522.
Index: Suspected Sentence: Source Content:	304 In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning, pages 1832–1841.
Index: Suspected Sentence: Source Content: Source:	304 In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning, pages 1832–1841. https://arxiv.org/pdf/2209.13083
Index: Suspected Sentence: Source Content: Source:	304 In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning, pages 1832–1841. https://arxiv.org/pdf/2209.13083
Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning, pages 1832–1841. https://arxiv.org/pdf/2209.13083 Internet
Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning, pages 1832–1841. https://arxiv.org/pdf/2209.13083 Internet 305 In International Conference on Machine Learning, pages
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning, pages 1832–1841. https://arxiv.org/pdf/2209.13083 Internet 305 In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 38th International Conference on Machine Learning, volume 139, 2021.
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning, pages 1832–1841. https://arxiv.org/pdf/2209.13083 Internet 305 In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 38th International Conference on Machine
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning, pages 1832–1841. https://arxiv.org/pdf/2209.13083 Internet 305 In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 38th International Conference on Machine Learning, volume 139, 2021. https://arxiv.org/pdf/2209.13083
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning, pages 1832–1841. https://arxiv.org/pdf/2209.13083 Internet 305 In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 38th International Conference on Machine Learning, volume 139, 2021. https://arxiv.org/pdf/2209.13083 Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning, pages 1832–1841. https://arxiv.org/pdf/2209.13083 Internet 305 In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 38th International Conference on Machine Learning, volume 139, 2021. https://arxiv.org/pdf/2209.13083 Internet 306
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning, pages 1832–1841. https://arxiv.org/pdf/2209.13083 Internet 305 In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 38th International Conference on Machine Learning, volume 139, 2021. https://arxiv.org/pdf/2209.13083 Internet 306 In International Conference on Machine Learning, pages
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning, pages 1832–1841. https://arxiv.org/pdf/2209.13083 Internet 305 In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 38th International Conference on Machine Learning, volume 139, 2021. https://arxiv.org/pdf/2209.13083 Internet 306 In International Conference on Machine Learning, pages 11513–11522.
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning, pages 1832–1841. https://arxiv.org/pdf/2209.13083 Internet 305 In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 38th International Conference on Machine Learning, volume 139, 2021. https://arxiv.org/pdf/2209.13083 Internet 306 In International Conference on Machine Learning, pages

From:	Internet
Index:	307
Suspected Sentence:	[22] Jalal, A., Arvinte, M., Daras, G., Price, E., Dimakis, A.
Source Content:	Authors:Ajil Jalal, Marius Arvinte, Giannis Daras, Eric Price, Alexandros G.
Source:	https://arxiv.org/abs/2108.01368
From:	Internet
Index:	308
Suspected Sentence:	Robust compressed sensing mri with deep generative priors.
Source Content:	Title:Robust Compressed Sensing MRI with Deep Generative Priors
Source:	https://arxiv.org/abs/2108.01368
From:	Internet
Index:	309
Suspected Sentence:	On deep learning as a remedy for the curse of dimensionality in nonparametric regression.
Source Content:	Bauer, B.: Kohler, M: On deep learning as a remedy for the curse of dimensionality in nonparametric regression.
Source:	https://link.springer.com/article/10.1007/s10915-022-01939-z
From:	Internet
Index:	310
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In: Dy J, Krause A (eds) Proceedings of the 35th International Conference on Machine Learning, Proc.
Source:	https://link.springer.com/article/10.1007/s10915-022-01939-z
From:	Internet
Index:	311
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In: Dy J, Krause A (eds) Proceedings of the 35th International Conference on Machine Learning, Proc.
Source:	https://link.springer.com/article/10.1007/s10915-022-01939-z
From:	Internet
Index:	312
Index: Suspected Sentence:	312 In International Conference on Machine Learning, pages 8599–8608.
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608. In: Dy J, Krause A (eds) Proceedings of the 35th International

Internet

From:

Index:	313
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In: Dy J, Krause A (eds) Proceedings of the 35th International Conference on Machine Learning, Proc.
Source:	https://link.springer.com/article/10.1007/s10915-022-01939-z
From:	Internet
Index:	314
Suspected Sentence:	Error bounds for approximations with deep relu networks.
Source Content:	Yarotsky, D.: Error bounds for approximations with deep relunetworks.
Source:	https://link.springer.com/article/10.1007/s10915-022-01939-z
From:	Internet
Index:	315
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In: Dy J, Krause A (eds) Proceedings of the 35th International Conference on Machine Learning, Proc.
Source:	https://link.springer.com/article/10.1007/s10915-022-01939-z
From:	Internet
Index:	316
Suspected Sentence:	In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 19–34.
Source Content:	In Joint European Conference on Machine Learning and Knowledge
	Discovery in Databases, pp.
Source:	Discovery in Databases, pp. https://openreview.net/pdf?id=S1X7nhsxl
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	https://openreview.net/pdf?id=S1X7nhsxl
From:	https://openreview.net/pdf?id=S1X7nhsxl Internet
From: Index:	https://openreview.net/pdf?id=S1X7nhsxl Internet 317 Bounding the vapnik-chervonenkis dimension of concept classes parameterized by real numbers. Search SpringerLink [] Search Bounding the Vapnik-Chervonenkis
From: Index: Suspected Sentence:	https://openreview.net/pdf?id=S1X7nhsxl Internet 317 Bounding the vapnik-chervonenkis dimension of concept classes parameterized by real numbers.
From: Index: Suspected Sentence:	https://openreview.net/pdf?id=S1X7nhsxl Internet 317 Bounding the vapnik-chervonenkis dimension of concept classes parameterized by real numbers. Search SpringerLink [] Search Bounding the Vapnik-Chervonenkis dimension of concept classes parameterized by real numbers
Index: Suspected Sentence: Source Content:	https://openreview.net/pdf?id=S1X7nhsxl Internet 317 Bounding the vapnik-chervonenkis dimension of concept classes parameterized by real numbers. Search SpringerLink [] Search Bounding the Vapnik-Chervonenkis dimension of concept classes parameterized by real numbers Download PDF Download PDF
Index: Suspected Sentence: Source Content:	https://openreview.net/pdf?id=S1X7nhsxl Internet 317 Bounding the vapnik-chervonenkis dimension of concept classes parameterized by real numbers. Search SpringerLink [] Search Bounding the Vapnik-Chervonenkis dimension of concept classes parameterized by real numbers Download PDF Download PDF https://link.springer.com/article/10.1007/BF00993408
Index: Suspected Sentence: Source Content:	https://openreview.net/pdf?id=S1X7nhsxl Internet 317 Bounding the vapnik-chervonenkis dimension of concept classes parameterized by real numbers. Search SpringerLink [] Search Bounding the Vapnik-Chervonenkis dimension of concept classes parameterized by real numbers Download PDF Download PDF https://link.springer.com/article/10.1007/BF00993408
Index: Suspected Sentence: Source Content: Source: From:	Internet 317 Bounding the vapnik-chervonenkis dimension of concept classes parameterized by real numbers. Search SpringerLink [] Search Bounding the Vapnik-Chervonenkis dimension of concept classes parameterized by real numbers Download PDF Download PDF https://link.springer.com/article/10.1007/BF00993408 Internet

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From:	Internet
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Index:	319
Suspected Sentence:	Bounding the vapnik-chervonenkis dimension of concept classes parameterized by real numbers.
Source Content:	Bounding the Vapnik-Chervonenkis dimension of concept classes parameterized by real numbers.
Source:	https://link.springer.com/article/10.1007/BF00993408
From:	Internet
Index:	320
Suspected Sentence:	In Proceedings of the sixth annual conference on Computational learning theory, pages 361–369.
Source Content:	Proceedings of the 6th Annual ACM Conference on Computational Learning Theory, pp.
Source:	https://link.springer.com/article/10.1007/BF00993408
From:	Internet
Index:	321
Suspected Sentence:	Almost linear vc dimension bounds for piecewise polynomial networks.
Source Content:	Meir, Almost linear VC-dimension bounds for piecewise polynomial networks, Neural Computation, 10 (1998), pp.
Source:	https://arxiv.org/pdf/2103.00502
From:	Internet
Index:	322
Suspected Sentence:	Nearly-tight vc-dimension and pseudodimension bounds for piecewise linear neural networks.
Source Content:	Mehrabian, Nearly-tight VC-dimension bounds for piecewise linear neural networks, in Proceedings of the 2017 Conference on Learning Theory, S.
Source:	https://arxiv.org/pdf/2103.00502
From:	Internet
Index:	323
Suspected Sentence:	Simultaneous neural network approximation for smooth functions.
Source Content:	Voigtlaender, Optimal approximation of piecewise smooth functions using deep ReLU neural networks, Neural Networks, 108 (2018), pp.
Source:	https://arxiv.org/pdf/2103.00502
From:	Internet

Index: 324

Suspected Sentence:	Approximating smooth functions by deep neural networks with sigmoid activation function.
Source Content:	Voigtlaender, Optimal approximation of piecewise smooth functions using deep ReLU neural networks, Neural Networks, 108 (2018), pp.
Source:	https://arxiv.org/pdf/2103.00502
From:	Internet
Index:	325
Suspected Sentence:	Deep network approximation for smooth functions.
Source Content:	Zhang, Deep network approximation for smooth functions, arXiv e-prints, (2020).
Source:	https://arxiv.org/pdf/2103.00502
From:	Internet
Index:	326
Suspected Sentence:	Optimal approximation of piecewise smooth functions using deep relu neural networks.
Source Content:	Voigtlaender, Optimal approximation of piecewise smooth functions using deep ReLU neural networks, Neural Networks, 108 (2018), pp.
Source:	https://arxiv.org/pdf/2103.00502
From:	Internet
Index:	327
Suspected Sentence:	Deep relu network approximation of functions on a manifold.
Source Content:	Voigtlaender, Optimal approximation of piecewise smooth functions using deep ReLU neural networks, Neural Networks, 108 (2018), pp.
Source:	https://arxiv.org/pdf/2103.00502
From:	Internet
Index:	328
Suspected Sentence:	Deep relu network approximation of functions on a manifold.
Source Content:	[41] , Optimal approximation of continuous functions by very deep ReLU networks, in Proceedings of the 31st Conference On Learning Theory, S.
Source:	https://arxiv.org/pdf/2103.00502
From:	Internet
Index:	329
Suspected Sentence:	Deep network approximation characterized by number of neurons.
Source Content:	[33] , Deep network approximation characterized by number of
	neurons, Communications in Computational Physics, 28 (2020), pp.
Source:	https://arxiv.org/pdf/2103.00502
From:	Internet

Index:	330
Suspected Sentence:	Error bounds for approximations with deep relu networks.
Source Content:	Yarotsky, Error bounds for approximations with deep ReLU networks, 94 (2017), pp.
Source:	https://arxiv.org/pdf/2103.00502
From:	Internet
Index:	331
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2
Source Content:	of the 29th International Conference on Machine Learning, ICML 2012, Edinburgh, Scotland, UK, June 26 - July 1, 2012.
Source:	https://arxiv.org/pdf/1805.05052
From:	Internet
Index:	332
Suspected Sentence:	In International conference on machine learning, pages 276–284
Source Content:	of the 29th International Conference on Machine Learning, ICML 2012, Edinburgh, Scotland, UK, June 26 - July 1, 2012.
Source:	https://arxiv.org/pdf/1805.05052
From:	Internet
Index:	333
Suspected Sentence:	In International Conference on Machine Learning, pages 8599-8
Source Content:	of the 29th International Conference on Machine Learning, ICML 2012, Edinburgh, Scotland, UK, June 26 - July 1, 2012.
Source:	https://arxiv.org/pdf/1805.05052
From:	Internet
Index:	334
Suspected Sentence:	In International Conference on Machine Learning, pages 4644-4
Source Content:	of the 29th International Conference on Machine Learning, ICML 2012, Edinburgh, Scotland, UK, June 26 - July 1, 2012.
Source:	https://arxiv.org/pdf/1805.05052
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From:	Internet
	Internet
From:	Internet 335
	335
From: Index: Suspected Sentence:	335 Generative modeling by estimating gradients of the data distribution 19, 20, 40, 42, 85, 93, 100, 196, 225, 256, 263 expectation maximization Expectation maximization is a generic technique for estimating the parameters of a probabilistic model (a parametrizerometers).
From: Index:	335 Generative modeling by estimating gradients of the data distribu

Index:	336
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	of the 29th International Conference on Machine Learning, ICML 2012, Edinburgh, Scotland, UK, June 26 - July 1, 2012.
Source:	https://arxiv.org/pdf/1805.05052
From:	Internet
Index:	337
Suspected Sentence:	The Tesla's autopilot applies cutting-edge research to train deep neural networks on problems ranging from perception to control.
Source Content:	Apply cutting-edge research to train deep neural networks on problems ranging from perception to control.
Source:	https://www.tesla.com/en_HK/AI
From:	Internet
Index:	338
Suspected Sentence:	The proposed estimations with differentiable networks can be used to analyze raw images to perform semantic segmentation, object detection and monocular depth estimation.
Source Content:	Our per-camera networks analyze raw images to perform semantic segmentation, object detection and monocular depth estimation.
Source:	https://www.tesla.com/en_HK/AI
From:	Internet
From:	Internet
From: Index:	Internet 339
Index:	339
Index: Suspected Sentence:	339 For deep neural networks with differentiable activation functions (e.g. The ReLU is so far the most popular activation function for deep
Index: Suspected Sentence: Source Content:	339 For deep neural networks with differentiable activation functions (e.g. The ReLU is so far the most popular activation function for deep neural networks, and it is the positive part of its argument.
Index: Suspected Sentence: Source Content: Source:	For deep neural networks with differentiable activation functions (e.g. The ReLU is so far the most popular activation function for deep neural networks, and it is the positive part of its argument. https://arxiv.org/pdf/1811.09054
Index: Suspected Sentence: Source Content: Source:	For deep neural networks with differentiable activation functions (e.g. The ReLU is so far the most popular activation function for deep neural networks, and it is the positive part of its argument. https://arxiv.org/pdf/1811.09054
Index: Suspected Sentence: Source Content: Source: From:	For deep neural networks with differentiable activation functions (e.g. The ReLU is so far the most popular activation function for deep neural networks, and it is the positive part of its argument. https://arxiv.org/pdf/1811.09054 Internet
Index: Suspected Sentence: Source Content: Source: From:	For deep neural networks with differentiable activation functions (e.g. The ReLU is so far the most popular activation function for deep neural networks, and it is the positive part of its argument. https://arxiv.org/pdf/1811.09054 Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	339 For deep neural networks with differentiable activation functions (e.g. The ReLU is so far the most popular activation function for deep neural networks, and it is the positive part of its argument. https://arxiv.org/pdf/1811.09054 Internet 340 Simultaneous neural network approximation for smooth functions. Neural networks for optimal approximation of smooth and analytic
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	For deep neural networks with differentiable activation functions (e.g. The ReLU is so far the most popular activation function for deep neural networks, and it is the positive part of its argument. https://arxiv.org/pdf/1811.09054 Internet 340 Simultaneous neural network approximation for smooth functions. Neural networks for optimal approximation of smooth and analytic functions.
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	For deep neural networks with differentiable activation functions (e.g. The ReLU is so far the most popular activation function for deep neural networks, and it is the positive part of its argument. https://arxiv.org/pdf/1811.09054 Internet 340 Simultaneous neural network approximation for smooth functions. Neural networks for optimal approximation of smooth and analytic functions. https://arxiv.org/pdf/1811.09054
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	For deep neural networks with differentiable activation functions (e.g. The ReLU is so far the most popular activation function for deep neural networks, and it is the positive part of its argument. https://arxiv.org/pdf/1811.09054 Internet 340 Simultaneous neural network approximation for smooth functions. Neural networks for optimal approximation of smooth and analytic functions. https://arxiv.org/pdf/1811.09054
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	For deep neural networks with differentiable activation functions (e.g. The ReLU is so far the most popular activation function for deep neural networks, and it is the positive part of its argument. https://arxiv.org/pdf/1811.09054 Internet 340 Simultaneous neural network approximation for smooth functions. Neural networks for optimal approximation of smooth and analytic functions. https://arxiv.org/pdf/1811.09054 Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	For deep neural networks with differentiable activation functions (e.g. The ReLU is so far the most popular activation function for deep neural networks, and it is the positive part of its argument. https://arxiv.org/pdf/1811.09054 Internet 340 Simultaneous neural network approximation for smooth functions. Neural networks for optimal approximation of smooth and analytic functions. https://arxiv.org/pdf/1811.09054 Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	For deep neural networks with differentiable activation functions (e.g. The ReLU is so far the most popular activation function for deep neural networks, and it is the positive part of its argument. https://arxiv.org/pdf/1811.09054 Internet 340 Simultaneous neural network approximation for smooth functions. Neural networks for optimal approximation of smooth and analytic functions. https://arxiv.org/pdf/1811.09054 Internet 341 Deep network approximation for smooth functions. Neural networks for optimal approximation of smooth and analytic

Index:	342
Suspected Sentence:	Neural Network Learning: Theoretical Foundations.
Source Content:	Discussion of Theoretical Aspects We discuss the theoretical foundation of graph neural networks from different perspectives.
Source:	https://arxiv.org/pdf/1901.00596
From:	Internet
Index:	343
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In Proceedings of the 25th international conference on Machine learning (pp.
Source:	https://arxiv.org/pdf/2202.05924
From:	Internet
Index:	344
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In Proceedings of the 26th Annual International Conference on Machine Learning (pp.
Source:	https://arxiv.org/pdf/2202.05924
From:	Internet
Index:	345
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In Proceedings of the 26th Annual International Conference on Machine Learning (pp.
Source:	https://arxiv.org/pdf/2202.05924
Course.	
From:	Internet
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From:	Internet
From: Index:	Internet 346
From: Index: Suspected Sentence:	346 In International conference on machine learning, pages 276–284. In Proceedings of the 25th international conference on Machine
From: Index: Suspected Sentence: Source Content:	346 In International conference on machine learning, pages 276–284. In Proceedings of the 25th international conference on Machine learning (pp.
From: Index: Suspected Sentence: Source Content: Source:	346 In International conference on machine learning, pages 276–284. In Proceedings of the 25th international conference on Machine learning (pp. https://arxiv.org/pdf/2202.05924
From: Index: Suspected Sentence: Source Content: Source: From: Index:	346 In International conference on machine learning, pages 276–284. In Proceedings of the 25th international conference on Machine learning (pp. https://arxiv.org/pdf/2202.05924 Internet
From: Index: Suspected Sentence: Source Content: Source: From:	346 In International conference on machine learning, pages 276–284. In Proceedings of the 25th international conference on Machine learning (pp. https://arxiv.org/pdf/2202.05924 Internet 347 In International conference on machine learning, pages 276–284.
From: Index: Suspected Sentence: Source Content: Source: From: Index:	346 In International conference on machine learning, pages 276–284. In Proceedings of the 25th international conference on Machine learning (pp. https://arxiv.org/pdf/2202.05924 Internet
From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	346 In International conference on machine learning, pages 276–284. In Proceedings of the 25th international conference on Machine learning (pp. https://arxiv.org/pdf/2202.05924 Internet 347 In International conference on machine learning, pages 276–284. In Proceedings of the 26th Annual International Conference on

Index:	348
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In Proceedings of the 26th Annual International Conference on Machine Learning (pp.
Source:	https://arxiv.org/pdf/2202.05924
From:	Internet
Index:	349
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
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From:	Internet
Index:	350
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In Proceedings of the 26th Annual International Conference on Machine Learning (pp.
Source:	https://arxiv.org/pdf/2202.05924
From:	Internet
Index:	351
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In Proceedings of the 26th Annual International Conference on Machine Learning (pp.
Source:	https://arxiv.org/pdf/2202.05924
From:	Internet
Index:	352
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In Proceedings of the 25th international conference on Machine learning (pp.
Source:	https://arxiv.org/pdf/2202.05924
From:	Internet
Index:	353
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In Proceedings of the 26th Annual International Conference on Machine Learning (pp.
Source:	https://arxiv.org/pdf/2202.05924
From:	Internet
Index:	354
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.

Source Content:	In Proceedings of the 26th Annual International Conference on Machine Learning (pp.
Source:	https://arxiv.org/pdf/2202.05924
From:	Internet
Index:	355
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In Proceedings of the 25th international conference on Machine learning (pp.
Source:	https://arxiv.org/pdf/2202.05924
From:	Internet
Index:	356
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In Proceedings of the 26th Annual International Conference on Machine Learning (pp.
Source:	https://arxiv.org/pdf/2202.05924
From:	Internet
Index:	357
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In Proceedings of the 26th Annual International Conference on Machine Learning (pp.
Source:	https://arxiv.org/pdf/2202.05924
From:	Internet
Index:	358
Suspected Sentence:	Generative modeling with denoising autoencoders and langevin sampling.
Source Content:	Title:Generative Modeling with Denoising Auto-Encoders and Langevin Sampling
Source:	https://arxiv.org/abs/2002.00107
From:	Internet
Index:	359
Suspected Sentence:	, 2021) under the exact manifold, approximate manifold, and Minkowski low-dimensional set assumptions of the data.
Source Content:	We show that the neural regression estimator can circumvent the curse of dimensionality under the assumption that the predictor is supported on an approximate low-dimensional manifold or a set with low Minkowski dimension.
Source:	https://arxiv.org/abs/2104.06708
From:	Internet

Index:	360
Suspected Sentence:	Simultaneous neural network approximation for smooth functions.
Source Content:	We have added a new neural network approximation result for higher order Holder smooth functions.
Source:	https://arxiv.org/abs/2104.06708
From:	Internet
Index:	361
Suspected Sentence:	Deep nonparametric regression on approximately low-dimensional manifolds.
Source Content:	Title:Deep Nonparametric Regression on Approximately Low- dimensional Manifolds
Source:	https://arxiv.org/abs/2104.06708
From:	Internet
Index:	362
Suspected Sentence:	Deep network approximation for smooth functions.
Source Content:	We have added a new neural network approximation result for higher order Holder smooth functions.
Source:	https://arxiv.org/abs/2104.06708
From:	Internet
Index:	363
Suspected Sentence:	Robust nonparametric regression with deep neural networks.
Suspected Sentence:	Robust nonparametric regression with deep neural networks. Abstract: In this paper, we study the properties of nonparametric
Suspected Sentence: Source Content:	Robust nonparametric regression with deep neural networks. Abstract: In this paper, we study the properties of nonparametric least squares regression using deep neural networks.
Suspected Sentence: Source Content: Source:	Robust nonparametric regression with deep neural networks. Abstract: In this paper, we study the properties of nonparametric least squares regression using deep neural networks. https://arxiv.org/abs/2104.06708
Suspected Sentence: Source Content: Source:	Robust nonparametric regression with deep neural networks. Abstract: In this paper, we study the properties of nonparametric least squares regression using deep neural networks. https://arxiv.org/abs/2104.06708
Suspected Sentence: Source Content: Source: From:	Robust nonparametric regression with deep neural networks. Abstract: In this paper, we study the properties of nonparametric least squares regression using deep neural networks. https://arxiv.org/abs/2104.06708 Internet
Suspected Sentence: Source Content: Source: From:	Robust nonparametric regression with deep neural networks. Abstract: In this paper, we study the properties of nonparametric least squares regression using deep neural networks. https://arxiv.org/abs/2104.06708 Internet 364 Nonparametric regression on lowdimensional manifolds using deep
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	Robust nonparametric regression with deep neural networks. Abstract: In this paper, we study the properties of nonparametric least squares regression using deep neural networks. https://arxiv.org/abs/2104.06708 Internet 364 Nonparametric regression on lowdimensional manifolds using deep relu networks: Function approximation and statistical recovery. Title:Nonparametric Regression on Low-Dimensional Manifolds using Deep ReLU Networks: Function Approximation and Statistical
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	Robust nonparametric regression with deep neural networks. Abstract: In this paper, we study the properties of nonparametric least squares regression using deep neural networks. https://arxiv.org/abs/2104.06708 Internet 364 Nonparametric regression on lowdimensional manifolds using deep relu networks: Function approximation and statistical recovery. Title:Nonparametric Regression on Low-Dimensional Manifolds using Deep ReLU Networks: Function Approximation and Statistical Recovery
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	Robust nonparametric regression with deep neural networks. Abstract: In this paper, we study the properties of nonparametric least squares regression using deep neural networks. https://arxiv.org/abs/2104.06708 Internet 364 Nonparametric regression on lowdimensional manifolds using deep relu networks: Function approximation and statistical recovery. Title:Nonparametric Regression on Low-Dimensional Manifolds using Deep ReLU Networks: Function Approximation and Statistical Recovery https://arxiv.org/abs/1908.01842
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	Robust nonparametric regression with deep neural networks. Abstract: In this paper, we study the properties of nonparametric least squares regression using deep neural networks. https://arxiv.org/abs/2104.06708 Internet 364 Nonparametric regression on lowdimensional manifolds using deep relu networks: Function approximation and statistical recovery. Title:Nonparametric Regression on Low-Dimensional Manifolds using Deep ReLU Networks: Function Approximation and Statistical Recovery https://arxiv.org/abs/1908.01842
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	Robust nonparametric regression with deep neural networks. Abstract: In this paper, we study the properties of nonparametric least squares regression using deep neural networks. https://arxiv.org/abs/2104.06708 Internet 364 Nonparametric regression on lowdimensional manifolds using deep relu networks: Function approximation and statistical recovery. Title:Nonparametric Regression on Low-Dimensional Manifolds using Deep ReLU Networks: Function Approximation and Statistical Recovery https://arxiv.org/abs/1908.01842 Internet

Source:	https://arxiv.org/abs/1908.01842
From:	Internet
Index:	366
Suspected Sentence:	Deep nonparametric regression on approximately low-dimensional manifolds.
Source Content:	This paper studies nonparametric regression of Hölder functions on low-dimensional manifolds using deep ReLU networks.
Source:	https://arxiv.org/abs/1908.01842
From:	Internet
Index:	367
Suspected Sentence:	Deep relu network approximation of functions on a manifold.
Source Content:	This paper studies nonparametric regression of Hölder functions on low-dimensional manifolds using deep ReLU networks.
Source:	https://arxiv.org/abs/1908.01842
From:	Internet
Index:	368
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	International conference on machine learning.
Source:	https://towardsdatascience.com/demystified-wasserstein-gan-with- gradient-penalty-ba5e9b905ead
From:	Internet
Index:	369
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	International conference on machine learning.
Source:	https://towardsdatascience.com/demystified-wasserstein-gan-with- gradient-penalty-ba5e9b905ead
From:	Internet
Index:	370
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	International conference on machine learning.
Source:	https://towardsdatascience.com/demystified-wasserstein-gan-with-gradient-penalty-ba5e9b905ead
From:	Internet
Index:	371
Suspected Sentence:	Stabilizing training of generative adversarial networks through regularization.

Source:	https://towardsdatascience.com/demystified-wasserstein-gan-with-gradient-penalty-ba5e9b905ead
From:	Internet
Index:	372
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	International conference on machine learning.
Source:	https://towardsdatascience.com/demystified-wasserstein-gan-with-gradient-penalty-ba5e9b905ead
From:	Internet
Index:	373
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	International conference on machine learning.
Source:	https://towardsdatascience.com/demystified-wasserstein-gan-with-gradient-penalty-ba5e9b905ead
From:	Internet
Index:	374
Suspected Sentence:	For deep neural networks with differentiable activation functions (e.g.
Source Content:	Discussion of: "Nonparametric regression using deep neural networks with ReLU activation function".
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	375
Suspected Sentence:	For deep neural networks with differentiable activation functions (e.g.
Source Content:	Nonparametric regression using deep neural networks with ReLU activation function (with discussion).
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	376
Suspected Sentence:	, 2021) under the exact manifold, approximate manifold, and Minkowski low-dimensional set assumptions of the data.
Source Content:	We show that the neural regression estimator can circumvent the curse of dimensionality under the assumption that the predictor is supported on an approximate low-dimensional manifold or a set with low Minkowski dimension.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet

Index: 377

Suspected Sentence:	, 2021) under the exact manifold, approximate manifold, and Minkowski low-dimensional set assumptions of the data.
Source Content:	In Section 6 we show that the neural regression estimator can circumvent the curse of dimensionality if 4 the data distribution is supported on an approximate low-dimensional manifold or a set with a low Minkowski dimension.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	378
Suspected Sentence:	, 2021) under the exact manifold, approximate manifold, and Minkowski low-dimensional set assumptions of the data.
Source Content:	First, these existing results assume that the distribution of X is supported on an exact low-dimensional manifold or a set with low Minkowski dimension, whereas in Theorem 6.1 we assume that it is supported on an approximate low-dimensional manifold, whose Minkowski dimension can be the same as that of the ambient space d.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	379
Suspected Sentence:	Neural Network Learning: Theoretical Foundations.
Source Content:	Neural Network Learning: Theoretical Foundations.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	380
Suspected Sentence:	Almost linear vc dimension bounds for piecewise polynomial networks.
Source Content:	Nearly-tight VC-dimension and pseudodimension bounds for
	piecewise linear neural networks.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
la dessi	204
Index:	381
Suspected Sentence:	Nearly-tight vc-dimension and pseudodimension bounds for piecewise linear neural networks.
Source Content:	Nearly-tight VC-dimension and pseudodimension bounds for piecewise linear neural networks.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	382
Suspected Sentence:	On deep learning as a remedy for the curse of dimensionality in nonparametric regression.

Source Content:	On deep learning as a remedy for the curse of dimensionality in nonparametric regression.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	383
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning 242–252.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	384
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning 1675–1685.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	385
Suspected Sentence:	A distribution-free theory of nonparametric regression, volume 1.
Source Content:	A Distribution-Free Theory of Nonparametric Regression.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	386
Suspected Sentence:	Simultaneous neural network approximation for smooth functions.
Source Content:	Optimal approximation of piecewise smooth functions using deep ReLU neural networks.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	387
Suspected Sentence:	Deep nonparametric regression on approximately low-dimensional manifolds.
Source Content:	We show that the neural regression estimator can circumvent the curse of dimensionality under the assumption that the predictor is supported on an approximate low-dimensional manifold.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	388
Suspected Sentence:	Deep nonparametric regression on approximately low-dimensional
	manifolds.
Source Content:	Efficient approximation of deep relu networks for functions on low dimensional manifolds.

Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	389
Suspected Sentence:	Deep nonparametric regression on approximately low-dimensional manifolds.
Source Content:	Nonparametric regression on low-dimensional manifolds using deep relu networks.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	390
Suspected Sentence:	Approximating smooth functions by deep neural networks with sigmoid activation function.
Source Content:	(iv) We derive a novel approximation error bound for the Hölder smooth functions with smoothness index $\beta > 0$ using ReLU activated neural networks.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	391
Suspected Sentence:	Approximating smooth functions by deep neural networks with sigmoid activation function.
Source Content:	Optimal approximation of piecewise smooth functions using deep ReLU neural networks.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	392
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning 242–252.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	393
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning 1675–1685.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	394
Suspected Sentence:	Deep network approximation for smooth functions.
Source Content:	Efficient approximation of deep relu networks for functions on low
	dimensional manifolds.
Source:	https://arxiv.org/pdf/2104.06708

From:	Internet
Index:	395
Suspected Sentence:	Deep network approximation for smooth functions.
Source Content:	Why deep neural networks for function approximation?
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	396
Suspected Sentence:	Deep network approximation for smooth functions.
Source Content:	Deep network approximation for smooth functions.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	397
Suspected Sentence:	Deep network approximation for smooth functions.
Source Content:	Optimal approximation of piecewise smooth functions using deep ReLU neural networks.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	398
Suspected Sentence:	Deep network approximation for smooth functions.
Source Content:	Deep relu network approximation of functions on a manifold.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	399
Suspected Sentence:	Deep network approximation for smooth functions.
Source Content:	Optimal approximation of continuous functions by very deep ReLU networks.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	400
Suspected Sentence:	Optimal approximation of piecewise smooth functions using deep relu neural networks.
Source Content:	Optimal approximation of piecewise smooth functions using deep ReLU neural networks.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	401

Source Content:	In International Conference on Machine Learning 242–252.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	402
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning 1675–1685.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	403
Suspected Sentence:	Deep relu network approximation of functions on a manifold.
Source Content:	Efficient approximation of deep relu networks for functions on low dimensional manifolds.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	404
Suspected Sentence:	Deep relu network approximation of functions on a manifold.
Source Content:	Optimal approximation of piecewise smooth functions using deep ReLU neural networks.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
•	internet
	internet
Index:	405
Index:	405
Index: Suspected Sentence:	405 Deep relu network approximation of functions on a manifold.
Index: Suspected Sentence: Source Content:	405 Deep relu network approximation of functions on a manifold. Deep relu network approximation of functions on a manifold.
Index: Suspected Sentence: Source Content: Source:	405 Deep relu network approximation of functions on a manifold. Deep relu network approximation of functions on a manifold. https://arxiv.org/pdf/2104.06708
Index: Suspected Sentence: Source Content: Source:	405 Deep relu network approximation of functions on a manifold. Deep relu network approximation of functions on a manifold. https://arxiv.org/pdf/2104.06708
Index: Suspected Sentence: Source Content: Source: From:	405 Deep relu network approximation of functions on a manifold. Deep relu network approximation of functions on a manifold. https://arxiv.org/pdf/2104.06708 Internet
Index: Suspected Sentence: Source Content: Source: From:	405 Deep relu network approximation of functions on a manifold. Deep relu network approximation of functions on a manifold. https://arxiv.org/pdf/2104.06708 Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	405 Deep relu network approximation of functions on a manifold. Deep relu network approximation of functions on a manifold. https://arxiv.org/pdf/2104.06708 Internet 406 Deep relu network approximation of functions on a manifold. Optimal approximation of continuous functions by very deep ReLU
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	405 Deep relu network approximation of functions on a manifold. Deep relu network approximation of functions on a manifold. https://arxiv.org/pdf/2104.06708 Internet 406 Deep relu network approximation of functions on a manifold. Optimal approximation of continuous functions by very deep ReLU networks.
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	405 Deep relu network approximation of functions on a manifold. Deep relu network approximation of functions on a manifold. https://arxiv.org/pdf/2104.06708 Internet 406 Deep relu network approximation of functions on a manifold. Optimal approximation of continuous functions by very deep ReLU networks. https://arxiv.org/pdf/2104.06708
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	405 Deep relu network approximation of functions on a manifold. Deep relu network approximation of functions on a manifold. https://arxiv.org/pdf/2104.06708 Internet 406 Deep relu network approximation of functions on a manifold. Optimal approximation of continuous functions by very deep ReLU networks. https://arxiv.org/pdf/2104.06708
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	405 Deep relu network approximation of functions on a manifold. Deep relu network approximation of functions on a manifold. https://arxiv.org/pdf/2104.06708 Internet 406 Deep relu network approximation of functions on a manifold. Optimal approximation of continuous functions by very deep ReLU networks. https://arxiv.org/pdf/2104.06708 Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	405 Deep relu network approximation of functions on a manifold. Deep relu network approximation of functions on a manifold. https://arxiv.org/pdf/2104.06708 Internet 406 Deep relu network approximation of functions on a manifold. Optimal approximation of continuous functions by very deep ReLU networks. https://arxiv.org/pdf/2104.06708 Internet 407 Nonparametric regression using deep neural networks with ReLU 13
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	Deep relu network approximation of functions on a manifold. Deep relu network approximation of functions on a manifold. https://arxiv.org/pdf/2104.06708 Internet 406 Deep relu network approximation of functions on a manifold. Optimal approximation of continuous functions by very deep ReLU networks. https://arxiv.org/pdf/2104.06708 Internet 407 Nonparametric regression using deep neural networks with ReLU 13 activation function (with discussion). Discussion of: "Nonparametric regression using deep neural
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: Sou	405 Deep relu network approximation of functions on a manifold. Deep relu network approximation of functions on a manifold. https://arxiv.org/pdf/2104.06708 Internet 406 Deep relu network approximation of functions on a manifold. Optimal approximation of continuous functions by very deep ReLU networks. https://arxiv.org/pdf/2104.06708 Internet 407 Nonparametric regression using deep neural networks with ReLU 13 activation function (with discussion). Discussion of: "Nonparametric regression using deep neural networks with ReLU activation function".

Index:	408
Suspected Sentence:	Nonparametric regression using deep neural networks with ReLL activation function (with discussion).
Source Content:	Nonparametric regression using deep neural networks with ReLU activation function (with discussion).
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	409
Suspected Sentence:	Robust nonparametric regression with deep neural networks.
Source Content:	§jian-huang@uiowa.edu In this paper, we study the properties of nonparametric least squares regression using deep neural netwo
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	410
Suspected Sentence:	Robust nonparametric regression with deep neural networks.
Source Content:	In this paper, we study the properties of nonparametric least squaregression using deep neural networks.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	411
Suspected Sentence:	Robust nonparametric regression with deep neural networks.
Source Content:	Discussion of: "Nonparametric regression using deep neural networks with ReLU activation function".
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	412
Suspected Sentence:	Robust nonparametric regression with deep neural networks.
Source Content:	Nonparametric regression using deep neural networks with ReLU activation function (with discussion).
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	413
Suspected Sentence:	Deep network approximation characterized by number of neuron
	Deep network approximation characterized by number of neuron
Source Content:	beep network approximation characterized by number of neuron
Source Content: Source:	https://arxiv.org/pdf/2104.06708

Index:	414
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning 242–252.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	415
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning 1675–1685.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	416
Suspected Sentence:	Optimal global rates of convergence for nonparametric regression.
Source Content:	Nonparametric orthogonal series estimators of regression: a class
	attaining the optimal convergence rate in L2.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	417
Suspected Sentence:	Optimal global rates of convergence for nonparametric regression.
Source Content:	Optimal global rates of convergence for nonparametric regression.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	418
Suspected Sentence:	Error bounds for approximations with deep relu networks.
Source Content:	Error bounds for approximations with deep ReLU networks.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet
Index:	
	419
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
	In International Conference on Machine Learning, pages
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning 242–252.
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning 242–252. https://arxiv.org/pdf/2104.06708
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning 242–252. https://arxiv.org/pdf/2104.06708
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning 242–252. https://arxiv.org/pdf/2104.06708 Internet
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning 242–252. https://arxiv.org/pdf/2104.06708 Internet 420 In International Conference on Machine Learning, pages
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning 242–252. https://arxiv.org/pdf/2104.06708 Internet 420 In International Conference on Machine Learning, pages 11513–11522.

From:	Internet
Index:	421
Suspected Sentence:	A kernelized stein discrepancy for goodness-of-fit tests.
Source Content:	Title:A Kernelized Stein Discrepancy for Goodness-of-fit Tests and Model Evaluation
Source:	https://arxiv.org/abs/1602.03253
From:	Internet
Index:	422
Suspected Sentence:	Wavegrad: Estimating gradients for waveform generation.
Source Content:	Title:WaveGrad: Estimating Gradients for Waveform Generation
Source:	https://arxiv.org/abs/2009.00713
From:	Internet
Index:	423
Suspected Sentence:	Generative modeling by estimating gradients of the data distribution.
Source Content:	Abstract: This paper introduces WaveGrad, a conditional model for waveform generation which estimates gradients of the data density.
Source:	https://arxiv.org/abs/2009.00713
From:	Internet
Index:	424
Index: Suspected Sentence:	424 Estimating a smooth monotone regression function.
Suspected Sentence:	Estimating a smooth monotone regression function. June, 1991 Estimating a Smooth Monotone Regression Function
Suspected Sentence: Source Content:	Estimating a smooth monotone regression function. June, 1991 Estimating a Smooth Monotone Regression Function Enno Mammen Ann. https://projecteuclid.org/journals/annals-of-statistics/volume-19/issue-2/Estimating-a-Smooth-Monotone-Regression-
Suspected Sentence: Source Content: Source:	Estimating a smooth monotone regression function. June, 1991 Estimating a Smooth Monotone Regression Function Enno Mammen Ann. https://projecteuclid.org/journals/annals-of-statistics/volume-19/issue- 2/Estimating-a-Smooth-Monotone-Regression- Function/10.1214/aos/1176348117.full
Suspected Sentence: Source Content: Source:	Estimating a smooth monotone regression function. June, 1991 Estimating a Smooth Monotone Regression Function Enno Mammen Ann. https://projecteuclid.org/journals/annals-of-statistics/volume-19/issue- 2/Estimating-a-Smooth-Monotone-Regression- Function/10.1214/aos/1176348117.full
Suspected Sentence: Source Content: Source: From:	Estimating a smooth monotone regression function. June, 1991 Estimating a Smooth Monotone Regression Function Enno Mammen Ann. https://projecteuclid.org/journals/annals-of-statistics/volume-19/issue- 2/Estimating-a-Smooth-Monotone-Regression- Function/10.1214/aos/1176348117.full Internet
Suspected Sentence: Source Content: Source: From:	Estimating a smooth monotone regression function. June, 1991 Estimating a Smooth Monotone Regression Function Enno Mammen Ann. https://projecteuclid.org/journals/annals-of-statistics/volume-19/issue-2/Estimating-a-Smooth-Monotone-Regression-Function/10.1214/aos/1176348117.full Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	Estimating a smooth monotone regression function. June, 1991 Estimating a Smooth Monotone Regression Function Enno Mammen Ann. https://projecteuclid.org/journals/annals-of-statistics/volume-19/issue-2/Estimating-a-Smooth-Monotone-Regression-Function/10.1214/aos/1176348117.full Internet 425 Estimating a smooth monotone regression function. The problem of estimating a smooth monotone regression function
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	Estimating a smooth monotone regression function. June, 1991 Estimating a Smooth Monotone Regression Function Enno Mammen Ann. https://projecteuclid.org/journals/annals-of-statistics/volume-19/issue-2/Estimating-a-Smooth-Monotone-Regression-Function/10.1214/aos/1176348117.full Internet 425 Estimating a smooth monotone regression function. The problem of estimating a smooth monotone regression function \$m\$ will be studied. https://projecteuclid.org/journals/annals-of-statistics/volume-19/issue-2/Estimating-a-Smooth-Monotone-Regression-
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	Estimating a smooth monotone regression function. June, 1991 Estimating a Smooth Monotone Regression Function Enno Mammen Ann. https://projecteuclid.org/journals/annals-of-statistics/volume-19/issue-2/Estimating-a-Smooth-Monotone-Regression-Function/10.1214/aos/1176348117.full Internet 425 Estimating a smooth monotone regression function. The problem of estimating a smooth monotone regression function \$m\$ will be studied. https://projecteuclid.org/journals/annals-of-statistics/volume-19/issue-2/Estimating-a-Smooth-Monotone-Regression-Function/10.1214/aos/1176348117.full
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	Estimating a smooth monotone regression function. June, 1991 Estimating a Smooth Monotone Regression Function Enno Mammen Ann. https://projecteuclid.org/journals/annals-of-statistics/volume-19/issue-2/Estimating-a-Smooth-Monotone-Regression-Function/10.1214/aos/1176348117.full Internet 425 Estimating a smooth monotone regression function. The problem of estimating a smooth monotone regression function \$m\$ will be studied. https://projecteuclid.org/journals/annals-of-statistics/volume-19/issue-2/Estimating-a-Smooth-Monotone-Regression-Function/10.1214/aos/1176348117.full
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	Estimating a smooth monotone regression function. June, 1991 Estimating a Smooth Monotone Regression Function Enno Mammen Ann. https://projecteuclid.org/journals/annals-of-statistics/volume-19/issue-2/Estimating-a-Smooth-Monotone-Regression-Function/10.1214/aos/1176348117.full Internet 425 Estimating a smooth monotone regression function. The problem of estimating a smooth monotone regression function \$m\$ will be studied. https://projecteuclid.org/journals/annals-of-statistics/volume-19/issue-2/Estimating-a-Smooth-Monotone-Regression-Function/10.1214/aos/1176348117.full Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	Estimating a smooth monotone regression function. June, 1991 Estimating a Smooth Monotone Regression Function Enno Mammen Ann. https://projecteuclid.org/journals/annals-of-statistics/volume-19/issue-2/Estimating-a-Smooth-Monotone-Regression-Function/10.1214/aos/1176348117.full Internet 425 Estimating a smooth monotone regression function. The problem of estimating a smooth monotone regression function \$m\$ will be studied. https://projecteuclid.org/journals/annals-of-statistics/volume-19/issue-2/Estimating-a-Smooth-Monotone-Regression-Function/10.1214/aos/1176348117.full Internet

Source:	https://projecteuclid.org/journals/annals-of-statistics/volume-19/issue- 2/Estimating-a-Smooth-Monotone-Regression-
	Function/10.1214/aos/1176348117.full
From:	Internet
Index:	427
Suspected Sentence:	On deep learning as a remedy for the curse of dimensionality in
	nonparametric regression.
Source Content:	August 2019 On deep learning as a remedy for the curse of
	dimensionality in nonparametric regression Benedikt Bauer, Michael Kohler Ann.
Source:	https://projecteuclid.org/journals/annals-of-statistics/volume-47/issue-
	4/On-deep-learning-as-a-remedy-for-the-curse-of/10.1214/18-
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From:	Internet
Index:	428
Suspected Sentence:	On deep learning as a remedy for the curse of dimensionality in nonparametric regression.
Source Content:	"On deep learning as a remedy for the curse of dimensionality in
Source Content.	nonparametric regression."
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	4/On-deep-learning-as-a-remedy-for-the-curse-of/10.1214/18- AOS1747.full
	AOS1747.luli
From:	Internet
From:	Internet
Index:	429
	429 Simultaneous neural network approximation for smooth functions.
Index: Suspected Sentence:	429
Index: Suspected Sentence:	429 Simultaneous neural network approximation for smooth functions. Title:Simultaneous Neural Network Approximation for Smooth
Index: Suspected Sentence: Source Content:	429 Simultaneous neural network approximation for smooth functions. Title:Simultaneous Neural Network Approximation for Smooth Functions
Index: Suspected Sentence: Source Content: Source:	429 Simultaneous neural network approximation for smooth functions. Title:Simultaneous Neural Network Approximation for Smooth Functions https://arxiv.org/abs/2109.00161
Index: Suspected Sentence: Source Content: Source:	429 Simultaneous neural network approximation for smooth functions. Title:Simultaneous Neural Network Approximation for Smooth Functions https://arxiv.org/abs/2109.00161
Index: Suspected Sentence: Source Content: Source: From:	429 Simultaneous neural network approximation for smooth functions. Title:Simultaneous Neural Network Approximation for Smooth Functions https://arxiv.org/abs/2109.00161 Internet
Index: Suspected Sentence: Source Content: Source: From:	429 Simultaneous neural network approximation for smooth functions. Title:Simultaneous Neural Network Approximation for Smooth Functions https://arxiv.org/abs/2109.00161 Internet 430 Deep network approximation for smooth functions. Title:Simultaneous Neural Network Approximation for Smooth
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	429 Simultaneous neural network approximation for smooth functions. Title:Simultaneous Neural Network Approximation for Smooth Functions https://arxiv.org/abs/2109.00161 Internet 430 Deep network approximation for smooth functions. Title:Simultaneous Neural Network Approximation for Smooth Functions
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	429 Simultaneous neural network approximation for smooth functions. Title:Simultaneous Neural Network Approximation for Smooth Functions https://arxiv.org/abs/2109.00161 Internet 430 Deep network approximation for smooth functions. Title:Simultaneous Neural Network Approximation for Smooth Functions https://arxiv.org/abs/2109.00161
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	429 Simultaneous neural network approximation for smooth functions. Title:Simultaneous Neural Network Approximation for Smooth Functions https://arxiv.org/abs/2109.00161 Internet 430 Deep network approximation for smooth functions. Title:Simultaneous Neural Network Approximation for Smooth Functions
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	429 Simultaneous neural network approximation for smooth functions. Title:Simultaneous Neural Network Approximation for Smooth Functions https://arxiv.org/abs/2109.00161 Internet 430 Deep network approximation for smooth functions. Title:Simultaneous Neural Network Approximation for Smooth Functions https://arxiv.org/abs/2109.00161
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	Simultaneous neural network approximation for smooth functions. Title:Simultaneous Neural Network Approximation for Smooth Functions https://arxiv.org/abs/2109.00161 Internet 430 Deep network approximation for smooth functions. Title:Simultaneous Neural Network Approximation for Smooth Functions https://arxiv.org/abs/2109.00161 Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	429 Simultaneous neural network approximation for smooth functions. Title:Simultaneous Neural Network Approximation for Smooth Functions https://arxiv.org/abs/2109.00161 Internet 430 Deep network approximation for smooth functions. Title:Simultaneous Neural Network Approximation for Smooth Functions https://arxiv.org/abs/2109.00161 Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	Simultaneous neural network approximation for smooth functions. Title:Simultaneous Neural Network Approximation for Smooth Functions https://arxiv.org/abs/2109.00161 Internet 430 Deep network approximation for smooth functions. Title:Simultaneous Neural Network Approximation for Smooth Functions https://arxiv.org/abs/2109.00161 Internet 431 Estimation of non-normalized statistical models by score matching.
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	Simultaneous neural network approximation for smooth functions. Title:Simultaneous Neural Network Approximation for Smooth Functions https://arxiv.org/abs/2109.00161 Internet 430 Deep network approximation for smooth functions. Title:Simultaneous Neural Network Approximation for Smooth Functions https://arxiv.org/abs/2109.00161 Internet 431 Estimation of non-normalized statistical models by score matching. Abstract: Score matching is a popular method for estimating

Index:	432
Suspected Sentence:	Sliced score matching: A scalable approach to density and score estimation.
Source Content:	Title:Sliced Score Matching: A Scalable Approach to Density an Score Estimation
Source:	https://arxiv.org/abs/1905.07088
From:	Internet
Index:	433
Suspected Sentence:	Deep network approximation for smooth functions.
Source Content:	In particular, we prove that deep ReLU networks more efficiently approximate smooth functions than shallow networks.
Source:	https://arxiv.org/abs/1610.01145
From:	Internet
Index:	434
Suspected Sentence:	Deep relu network approximation of functions on a manifold.
Source Content:	In particular, we prove that deep ReLU networks more efficiently approximate smooth functions than shallow networks.
Course	https://arxiv.org/abs/1610.01145
Source.	11ttps://arxiv.org/abs/1010.01145
	Internet
From:	
From: Index:	Internet
Source: From: Index: Suspected Sentence: Source Content:	435 Error bounds for approximations with deep relu networks.
From: Index: Suspected Sentence:	435 Error bounds for approximations with deep relu networks.
From: Index: Suspected Sentence: Source Content:	435 Error bounds for approximations with deep relu networks. Title:Error bounds for approximations with deep ReLU networks
From: Index: Suspected Sentence: Source Content: Source:	435 Error bounds for approximations with deep relu networks. Title:Error bounds for approximations with deep ReLU networks https://arxiv.org/abs/1610.01145
Index: Suspected Sentence: Source Content: Source: From:	435 Error bounds for approximations with deep relu networks. Title:Error bounds for approximations with deep ReLU networks https://arxiv.org/abs/1610.01145
From: Index: Suspected Sentence: Source Content: Source: From:	435 Error bounds for approximations with deep relu networks. Title:Error bounds for approximations with deep ReLU networks https://arxiv.org/abs/1610.01145 Internet
From: Index: Suspected Sentence: Source Content: Source:	435 Error bounds for approximations with deep relu networks. Title:Error bounds for approximations with deep ReLU networks https://arxiv.org/abs/1610.01145 Internet 436 For deep neural networks with differentiable activation functions
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	435 Error bounds for approximations with deep relu networks. Title:Error bounds for approximations with deep ReLU networks https://arxiv.org/abs/1610.01145 Internet 436 For deep neural networks with differentiable activation functions Title:Approximating smooth functions by deep neural networks with differentiable activation functions.
From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	435 Error bounds for approximations with deep relu networks. Title:Error bounds for approximations with deep ReLU networks https://arxiv.org/abs/1610.01145 Internet 436 For deep neural networks with differentiable activation functions Title:Approximating smooth functions by deep neural networks with sigmoid activation function
From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	435 Error bounds for approximations with deep relu networks. Title:Error bounds for approximations with deep ReLU networks https://arxiv.org/abs/1610.01145 Internet 436 For deep neural networks with differentiable activation functions Title:Approximating smooth functions by deep neural networks v sigmoid activation function https://arxiv.org/abs/2010.04596
From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	435 Error bounds for approximations with deep relu networks. Title:Error bounds for approximations with deep ReLU networks https://arxiv.org/abs/1610.01145 Internet 436 For deep neural networks with differentiable activation functions Title:Approximating smooth functions by deep neural networks v sigmoid activation function https://arxiv.org/abs/2010.04596
From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	435 Error bounds for approximations with deep relu networks. Title:Error bounds for approximations with deep ReLU networks https://arxiv.org/abs/1610.01145 Internet 436 For deep neural networks with differentiable activation functions Title:Approximating smooth functions by deep neural networks vigmoid activation function https://arxiv.org/abs/2010.04596 Internet
From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Index: Source: From: Index: Suspected Sentence:	435 Error bounds for approximations with deep relu networks. Title:Error bounds for approximations with deep ReLU networks https://arxiv.org/abs/1610.01145 Internet 436 For deep neural networks with differentiable activation functions Title:Approximating smooth functions by deep neural networks vigmoid activation function https://arxiv.org/abs/2010.04596 Internet 437 For deep neural networks with differentiable activation functions
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	435 Error bounds for approximations with deep relu networks. Title:Error bounds for approximations with deep ReLU networks https://arxiv.org/abs/1610.01145 Internet 436 For deep neural networks with differentiable activation functions Title:Approximating smooth functions by deep neural networks was igmoid activation function https://arxiv.org/abs/2010.04596 Internet 437 For deep neural networks with differentiable activation functions Abstract: We study the power of deep neural networks (DNNs) was approximation of the power of deep neural networks (DNNs) was approximation of the power of deep neural networks (DNNs) was approximation of the power of deep neural networks (DNNs) was approximation of the power of deep neural networks (DNNs) was approximations.

Index:	438
Suspected Sentence:	Simultaneous neural network approximation for smooth functions.
Source Content:	Title:Approximating smooth functions by deep neural networks with sigmoid activation function
Source:	https://arxiv.org/abs/2010.04596
From:	Internet
Index:	439
Suspected Sentence:	Approximating smooth functions by deep neural networks with sigmoid activation function.
Source Content:	Title:Approximating smooth functions by deep neural networks with sigmoid activation function
Source:	https://arxiv.org/abs/2010.04596
From:	Internet
Index:	440
Suspected Sentence:	Approximating smooth functions by deep neural networks with sigmoid activation function.
Source Content:	Abstract: We study the power of deep neural networks (DNNs) with sigmoid activation function.
Source:	https://arxiv.org/abs/2010.04596
From:	Internet
Index:	441
Suspected Sentence:	Deep network approximation for smooth functions.
Source Content:	Title:Approximating smooth functions by deep neural networks with sigmoid activation function
Source:	https://arxiv.org/abs/2010.04596
From:	Internet
Index:	442
Suspected Sentence:	Functional variational bayesian neural networks.
Source Content:	Title:Functional Variational Bayesian Neural Networks
Source:	https://arxiv.org/abs/1903.05779
From:	Internet
Index:	443
Suspected Sentence:	For deep neural networks with differentiable activation functions (e.g.
Source Content:	Smooth function approximation by deep neural networks with general
	activation functions.
Source:	https://arxiv.org/pdf/2202.02890

Index:	444
Suspected Sentence:	For deep neural networks with differentiable activation functions (e.g.
Source Content:	Nonparametric regression using deep neural networks with ReLU activation function.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	445
Suspected Sentence:	On deep learning as a remedy for the curse of dimensionality in nonparametric regression.
Source Content:	On deep learning as a remedy for the curse of dimensionality in nonparametric regression.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	446
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	International Conference on Learning Representations, pages 1–17.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	447
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	International Conference on Machine Learning, pages 214–223.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	448
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	International Conference on Machine Learning, pages 224–232.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	449
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	International Conference on Learning Representations, pages 1–10.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	450
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	International Conference on Learning Representations, pages 1–26.
Source:	https://arxiv.org/pdf/2202.02890

From:	Internet
Index:	451
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	International Conference on Learning Representations, pages 1–14.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	452
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	International Conference on Learning Representations, pages 1–16.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	453
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	International Conference on Machine Learning, pages 1278–1286.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	454
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	International Conference on Learning Representations, pages 1–26.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	455
Suspected Sentence:	[16] Gulrajani, I., Ahmed, F., Arjovsky, M., Dumoulin, V., and Courville, A.
Source Content:	[23] Gulrajani, I., Ahmed, F., Arjovsky, M., Dumoulin, V., and
	Courville, A.
Source:	Courville, A. https://arxiv.org/pdf/2202.02890
Source: From:	
_	https://arxiv.org/pdf/2202.02890
_	https://arxiv.org/pdf/2202.02890
From:	https://arxiv.org/pdf/2202.02890 Internet
From: Index:	https://arxiv.org/pdf/2202.02890 Internet 456
Index: Suspected Sentence:	https://arxiv.org/pdf/2202.02890 Internet 456 A distribution-free theory of nonparametric regression, volume 1.
Index: Suspected Sentence: Source Content:	https://arxiv.org/pdf/2202.02890 Internet 456 A distribution-free theory of nonparametric regression, volume 1. A Distribution-Free Theory of Nonparametric Regression.
Index: Suspected Sentence: Source Content: Source:	https://arxiv.org/pdf/2202.02890 Internet 456 A distribution-free theory of nonparametric regression, volume 1. A Distribution-Free Theory of Nonparametric Regression. https://arxiv.org/pdf/2202.02890
Index: Suspected Sentence: Source Content: Source:	https://arxiv.org/pdf/2202.02890 Internet 456 A distribution-free theory of nonparametric regression, volume 1. A Distribution-Free Theory of Nonparametric Regression. https://arxiv.org/pdf/2202.02890
Index: Suspected Sentence: Source Content: Source: From:	https://arxiv.org/pdf/2202.02890 Internet 456 A distribution-free theory of nonparametric regression, volume 1. A Distribution-Free Theory of Nonparametric Regression. https://arxiv.org/pdf/2202.02890 Internet

Source Content:	Smooth function approximation by deep neural networks with general activation functions.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	458
Suspected Sentence:	Deep nonparametric regression on approximately low-dimensional manifolds.
Source Content:	Efficient approximation of deep ReLU networks for functions on low dimensional manifolds.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	459
Suspected Sentence:	Approximating smooth functions by deep neural networks with sigmoid activation function.
Source Content:	Smooth function approximation by deep neural networks with general activation functions.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	460
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	International Conference on Learning Representations, pages 1–17.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	461
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	International Conference on Machine Learning, pages 214–223.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	462
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	International Conference on Machine Learning, pages 224–232.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	463
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	International Conference on Learning Representations, pages 1–10.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet

Suspected Sentence: In International Conference on machine learning, pages 276-284. Source Content: International Conference on Learning Representations, pages 1-26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 465 Suspected Sentence: In International Conference on machine learning, pages 276-284. Source Content: International Conference on Learning Representations, pages 1-14. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 466 Suspected Sentence: In International conference on machine learning, pages 276-284. Source Content: International Conference on machine learning, pages 276-284. Source Content: International Conference on Learning Representations, pages 1-16. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 467 Suspected Sentence: In International Conference on machine learning, pages 276-284. Source Content: International Conference on Machine Learning, pages 276-284. Source Content: International Conference on Machine Learning, pages 276-284. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 468 Suspected Sentence: In International Conference on Learning Representations, pages 1-26. Source Content: International Conference on Learning Representations, pages 1-26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 469 Suspected Sentence: Deep network approximation of deep ReLU networks for functions on low dimensional manifolds. Source Content: Efficient approximation of deep ReLU networks for functions on low dimensional manifolds. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 470 Suspected Sentence: Deep network approximation for smooth functions. Deep network approximation for smooth functions effectively. Deep network approximation for smooth functions. Deep networ	Index:	464
Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 465 Suspected Sentence: In International Conference on Learning Representations, pages 1–14. Source Content: International Conference on Learning Representations, pages 1–14. International Conference on Learning Representations, pages 1–14. Index: 466 Suspected Sentence: In International conference on machine learning, pages 276–284. Source Content: International Conference on Learning Representations, pages 1–16. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 467 Suspected Sentence: In International conference on machine learning, pages 276–284. Source Content: International Conference on Machine Learning, pages 1278–1286. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 468 Suspected Sentence: In International conference on machine learning, pages 276–284. International Conference on Learning Representations, pages 1–26. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 Internet Index: 469 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Efficient approximation of deep ReLU networks for functions on low dimensional manifolds. Source: https://arxiv.org/pdf/2202.02890 Internet Index: 469 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Efficient approximation of deep ReLU networks for functions on low dimensional manifolds. Source: https://arxiv.org/pdf/2202.02890 Internet Index: 470 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Deep network approximation for smooth functions. Source Content: Deep network approximation for smooth functions effectively. Source: https://arxiv.org/pdf/2202.02890	Suspected Sentence:	In International conference on machine learning, pages 276–284.
Index:	Source Content:	International Conference on Learning Representations, pages 1–26.
Index: 465 Suspected Sentence: In International conference on machine learning, pages 276–284. Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 466 Suspected Sentence: In International Conference on machine learning, pages 276–284. Source Content: International Conference on Learning Representations, pages 1–16. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 467 Suspected Sentence: In International conference on machine learning, pages 276–284. Source Content: International conference on Machine Learning, pages 276–284. Source Content: International Conference on Machine Learning, pages 1278–1286. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 468 Suspected Sentence: In International conference on machine learning, pages 276–284. Source Content: International conference on Learning Representations, pages 1–26. Source Content: International Conference on Learning Representations, pages 1–26. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 469 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Efficient approximation of deep ReLU networks for functions on low dimensional manifolds. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 470 Suspected Sentence: Deep network approximation for smooth functions effectively. Source: https://arxiv.org/pdf/2202.02890	Source:	https://arxiv.org/pdf/2202.02890
Suspected Sentence: In International Conference on machine learning, pages 276–284. Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 466 Suspected Sentence: In International Conference on machine learning, pages 276–284. Source Content: International Conference on Learning Representations, pages 1–16. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 467 Suspected Sentence: In International conference on machine learning, pages 276–284. Source Content: International Conference on Machine Learning, pages 276–284. Source Content: International Conference on Machine Learning, pages 1278–1286. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 468 Suspected Sentence: In International conference on machine learning, pages 276–284. Source Content: International Conference on Learning Representations, pages 1–26. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 469 Suspected Sentence: Deep network approximation for smooth functions. Efficient approximation of deep ReLU networks for functions on low dimensional manifolds. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 470 Suspected Sentence: Deep network approximation for smooth functions effectively. https://arxiv.org/pdf/2202.02890 Source Content: Deep network approximation for smooth functions effectively. https://arxiv.org/pdf/2202.02890	From:	Internet
Suspected Sentence: In International Conference on machine learning, pages 276–284. Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 466 Suspected Sentence: In International Conference on machine learning, pages 276–284. Source Content: International Conference on Learning Representations, pages 1–16. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 467 Suspected Sentence: In International conference on machine learning, pages 276–284. Source Content: International Conference on Machine Learning, pages 276–284. Source Content: International Conference on Machine Learning, pages 1278–1286. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 468 Suspected Sentence: In International conference on machine learning, pages 276–284. Source Content: International Conference on Learning Representations, pages 1–26. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 469 Suspected Sentence: Deep network approximation for smooth functions. Efficient approximation of deep ReLU networks for functions on low dimensional manifolds. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 470 Suspected Sentence: Deep network approximation for smooth functions effectively. https://arxiv.org/pdf/2202.02890 Source Content: Deep network approximation for smooth functions effectively. https://arxiv.org/pdf/2202.02890		
Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890 From: Internet Internet	Index:	465
Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 486 Suspected Sentence: In International conference on machine learning, pages 276–284. Source Content: International Conference on Learning Representations, pages 1–16. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 467 Suspected Sentence: In International conference on machine learning, pages 276–284. Source Content: International Conference on Machine Learning, pages 1278–1286. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 468 Suspected Sentence: In International conference on machine learning, pages 1278–1286. Source Content: International conference on machine learning, pages 276–284. In Internet Internet International conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 469 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Efficient approximation of deep ReLU networks for functions on low dimensional manifolds. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 470 Suspected Sentence: Deep network approximation for smooth functions effectively. Source Content: Deep neural networks learn non-smooth functions effectively. Source: https://arxiv.org/pdf/2202.02890	Suspected Sentence:	In International conference on machine learning, pages 276–284.
Index:	Source Content:	International Conference on Learning Representations, pages 1–14.
Index: 466 Suspected Sentence: In International conference on machine learning, pages 276–284. Source Content: International Conference on Learning Representations, pages 1–16. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 467 Suspected Sentence: In International conference on machine learning, pages 276–284. Source Content: International Conference on Machine Learning, pages 1278–1286. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 468 Suspected Sentence: In International conference on machine learning, pages 276–284. Source Content: International conference on machine learning, pages 276–284. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 469 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Efficient approximation of deep ReLU networks for functions on low dimensional manifolds. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 470 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Deep neural networks learn non-smooth functions effectively. Source: https://arxiv.org/pdf/2202.02890	Source:	https://arxiv.org/pdf/2202.02890
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Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 467 Suspected Sentence: In International conference on machine learning, pages 276–284. Source Content: International Conference on Machine Learning, pages 1278–1286. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 468 Suspected Sentence: In International conference on machine learning, pages 276–284. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 469 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Efficient approximation of deep ReLU networks for functions on low dimensional manifolds. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 470 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Deep network approximation for smooth functions.	Suspected Sentence:	In International conference on machine learning, pages 276–284.
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Index: 467 Suspected Sentence: In International conference on machine learning, pages 276–284. Source Content: International Conference on Machine Learning, pages 1278–1286. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 468 Suspected Sentence: In International conference on machine learning, pages 276–284. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 469 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Efficient approximation of deep ReLU networks for functions on low dimensional manifolds. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 470 Suspected Sentence: Deep network approximation for smooth functions.	Source:	https://arxiv.org/pdf/2202.02890
Suspected Sentence: In International conference on machine learning, pages 276–284. Source Content: International Conference on Machine Learning, pages 1278–1286. Source: https://arxiv.org/pdf/2202.02890 From: Index: 468 Suspected Sentence: In International Conference on machine learning, pages 276–284. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Index: 469 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Efficient approximation of deep ReLU networks for functions on low dimensional manifolds. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 470 Suspected Sentence: Deep network approximation for smooth functions. Deep network approximation for smooth functions effectively. https://arxiv.org/pdf/2202.02890	From:	Internet
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Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 468 Suspected Sentence: In International conference on machine learning, pages 276–284. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 469 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Efficient approximation of deep ReLU networks for functions on low dimensional manifolds. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 470 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Deep neural networks learn non-smooth functions effectively. Source: https://arxiv.org/pdf/2202.02890	Suspected Sentence:	In International conference on machine learning, pages 276–284.
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Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 469 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Efficient approximation of deep ReLU networks for functions on low dimensional manifolds. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 470 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Deep neural networks learn non-smooth functions effectively. Source: https://arxiv.org/pdf/2202.02890	Suspected Sentence:	In International conference on machine learning, pages 276–284.
Index: 469 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Efficient approximation of deep ReLU networks for functions on low dimensional manifolds. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 470 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Deep neural networks learn non-smooth functions effectively. Source: https://arxiv.org/pdf/2202.02890	Source Content:	International Conference on Learning Representations, pages 1–26.
Index: Suspected Sentence: Deep network approximation for smooth functions. Source Content: Efficient approximation of deep ReLU networks for functions on low dimensional manifolds. Source: https://arxiv.org/pdf/2202.02890 From: Index: 470 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Deep neural networks learn non-smooth functions effectively. Source: https://arxiv.org/pdf/2202.02890	Source:	https://arxiv.org/pdf/2202.02890
Suspected Sentence: Deep network approximation for smooth functions. Efficient approximation of deep ReLU networks for functions on low dimensional manifolds. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 470 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Deep neural networks learn non-smooth functions effectively. Source: https://arxiv.org/pdf/2202.02890	From:	Internet
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dimensional manifolds. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 470 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Deep neural networks learn non-smooth functions effectively. Source: https://arxiv.org/pdf/2202.02890	Suspected Sentence:	Deep network approximation for smooth functions.
Index: 470 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Deep neural networks learn non-smooth functions effectively. Source: https://arxiv.org/pdf/2202.02890	Source Content:	··
Index: 470 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Deep neural networks learn non-smooth functions effectively. Source: https://arxiv.org/pdf/2202.02890	Source:	https://arxiv.org/pdf/2202.02890
Suspected Sentence: Deep network approximation for smooth functions. Source Content: Deep neural networks learn non-smooth functions effectively. Source: https://arxiv.org/pdf/2202.02890	From:	Internet
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Source Content: Deep neural networks learn non-smooth functions effectively. https://arxiv.org/pdf/2202.02890	Index:	470
Source: https://arxiv.org/pdf/2202.02890	Suspected Sentence:	Deep network approximation for smooth functions.
	Source Content:	Deep neural networks learn non-smooth functions effectively.
From: Internet	Source:	https://arxiv.org/pdf/2202.02890
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Source Content: Smooth function approximation by deep neural networks with general activation functions. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 472 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–17. https://arxiv.org/pdf/2202.02890 From: Internet Index: 473 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 214–223. https://arxiv.org/pdf/2202.02890 From: Internet Index: 474 Index: 474 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Ource Content: International Conference on Machine Learning, pages 8599–8608. Internet Index: 475 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Internet	Suspected Sentence:	Deep network approximation for smooth functions.
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Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–17. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 473 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 214–223. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 474 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 8599–8608. Source: https://arxiv.org/pdf/2202.02890 From: International Conference on Learning Representations, pages 1–10. Source: https://arxiv.org/pdf/2202.02890 From: International Conference on Learning Representations, pages 1–10. International Conference on Learning Representations, pages 1–10. Internet Index: 476 Suspected Sentence: In International Conference on Learning Representations, pages 1–26. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: International Conference on Learning Representations, pages 1–26. International Conference on Learning Representations, pages 1–26. International Conference on Learning Representations, pages 1–14. Index: 477 Suspected Sentence: In International Conference on Learning Representations, pages 1–14. Inter	From:	Internet
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Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 473 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 214–223. Source: https://arxiv.org/pdf/2202.02890 From: Internet International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 224–232. Source: https://arxiv.org/pdf/2202.02890 Internet International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–10. Source: https://arxiv.org/pdf/2202.02890 Internet International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 Internet International Conference on Learning Representations, pages 8599–8608. International Conference on Learning Representations, pages 1–14. Index: 477 Suspected Sentence: In International Conference on Learning Representations, pages 1–14. International Conference on Learning Representations, pages 1–14	Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Index: 473 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 214–223. https://arxiv.org/pdf/2202.02890 From: Internet Index: 474 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 224–232. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 475 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–10. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 476 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 476 Suspected Sentence: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890	Source Content:	International Conference on Learning Representations, pages 1–17.
Index: 473 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 214–223. https://arxiv.org/pdf/2202.02890 From: Internet Index: 474 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 224–232. https://arxiv.org/pdf/2202.02890 From: Internet Index: 475 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. International Conference on Learning Representations, pages 1–10. Source: https://arxiv.org/pdf/2202.02890 From: International Conference on Learning Representations, pages 1–10. https://arxiv.org/pdf/2202.02890 From: Internet Index: 476 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–26. https://arxiv.org/pdf/2202.02890 From: Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. International Conference on Learning Representations, pages 1–26. https://arxiv.org/pdf/2202.02890 From: Internet Index: 477 Suspected Sentence: In International Conference on Learning Representations, pages 1–14. https://arxiv.org/pdf/2202.02890	Source:	https://arxiv.org/pdf/2202.02890
Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 214–223. https://arxiv.org/pdf/2202.02890 From: Internet Index: 474 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 224–232. https://arxiv.org/pdf/2202.02890 From: Internet Index: 475 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: In International Conference on Learning Representations, pages 1–10. https://arxiv.org/pdf/2202.02890 From: Internet Index: 476 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: Internet Index: 476 Suspected Sentence: In International Conference on Learning Representations, pages 1–26. https://arxiv.org/pdf/2202.02890 From: Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Internet Index: 477 Suspected Sentence: In International Conference on Learning Representations, pages 1–14. https://arxiv.org/pdf/2202.02890	From:	Internet
Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 214–223. https://arxiv.org/pdf/2202.02890 From: Internet Index: 474 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 224–232. https://arxiv.org/pdf/2202.02890 From: Internet Index: 475 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: In International Conference on Learning Representations, pages 1–10. https://arxiv.org/pdf/2202.02890 From: Internet Index: 476 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: Internet Index: 476 Suspected Sentence: In International Conference on Learning Representations, pages 1–26. https://arxiv.org/pdf/2202.02890 From: Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Internet Index: 477 Suspected Sentence: In International Conference on Learning Representations, pages 1–14. https://arxiv.org/pdf/2202.02890		
Source Content: International Conference on Machine Learning, pages 214–223. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 474 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 224–232. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 475 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–10. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 476 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Internet Index: 477 Suspected Sentence: In International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890	Index:	473
Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 474 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 224–232. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 475 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–10. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 476 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Internet Index: 477 Suspected Sentence: In International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890	Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Index: 474 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 224–232. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 475 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–10. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 476 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890	Source Content:	International Conference on Machine Learning, pages 214–223.
Index: 474 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 224–232. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 475 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–10. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 476 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890	Source:	https://arxiv.org/pdf/2202.02890
Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 224–232. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 475 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–10. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 476 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: International Conference on Machine Learning, pages 8599–8608. International Conference on Learning Representations, pages 1–14. Index: 477 Suspected Sentence: In International Conference on Learning Representations, pages 1–14. International Conference on Learning Representations.	From:	Internet
Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 224–232. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 475 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–10. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 476 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: International Conference on Machine Learning, pages 8599–8608. International Conference on Learning Representations, pages 1–14. Index: 477 Suspected Sentence: In International Conference on Learning Representations, pages 1–14. International Conference on Learning Representations.		
Source Content: International Conference on Machine Learning, pages 224–232. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 475 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–10. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 476 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 8599–8608. International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890	Index:	474
Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 475 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–10. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 476 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890	Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Index: Index: 475 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–10. Source: https://arxiv.org/pdf/2202.02890 From: Index: 476 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890	Source Content:	International Conference on Machine Learning, pages 224–232.
Index: Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–10. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 476 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890	Source:	https://arxiv.org/pdf/2202.02890
Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–10. Source: https://arxiv.org/pdf/2202.02890 From: Index: 476 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890	From:	Internet
Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–10. Source: https://arxiv.org/pdf/2202.02890 From: Index: 476 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890		
Source Content: International Conference on Learning Representations, pages 1–10. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 476 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890	Index:	475
Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 476 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890	Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Index: 476 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890	Source Content:	International Conference on Learning Representations, pages 1–10.
Index: Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890	Source:	https://arxiv.org/pdf/2202.02890
Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890	From:	Internet
Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890		
Source Content: International Conference on Learning Representations, pages 1–26. Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890	Index:	476
Source: https://arxiv.org/pdf/2202.02890 From: Internet Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890	Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Index: Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890	Source Content:	International Conference on Learning Representations, pages 1–26.
Index: 477 Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890	Source:	https://arxiv.org/pdf/2202.02890
Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890	From:	Internet
Suspected Sentence: In International Conference on Machine Learning, pages 8599–8608. Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890		
Source Content: International Conference on Learning Representations, pages 1–14. Source: https://arxiv.org/pdf/2202.02890	Index:	477
Source: https://arxiv.org/pdf/2202.02890	Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
	Source Content:	International Conference on Learning Representations, pages 1–14.
From: Internet	Source:	https://arxiv.org/pdf/2202.02890
·		

Index:	478
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	International Conference on Learning Representations, pages 1–16.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	479
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	International Conference on Machine Learning, pages 1278–1286.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	480
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	International Conference on Learning Representations, pages 1–26.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	481
Suspected Sentence:	Deep relu network approximation of functions on a manifold.
Source Content:	Efficient approximation of deep ReLU networks for functions on low dimensional manifolds.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	482
Suspected Sentence:	Nonparametric regression using deep neural networks with ReLU 13 activation function (with discussion).
Source Content:	Nonparametric regression using deep neural networks with ReLU activation function.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	483
Suspected Sentence:	Robust nonparametric regression with deep neural networks.
Source Content:	Nonparametric regression using deep neural networks with ReLU activation function.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	484
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.

International Conference on Learning Representations, pages 1–17.

Source Content:

Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	485
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	International Conference on Machine Learning, pages 214–223.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	486
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	International Conference on Machine Learning, pages 224–232.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	487
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	International Conference on Learning Representations, pages 1–10.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
110111.	THE STATE OF THE S
Indev:	488
Index:	488 In International Conference on Machine Learning, pages 4644, 4653
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–26.
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–26. https://arxiv.org/pdf/2202.02890
Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–26.
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–26. https://arxiv.org/pdf/2202.02890 Internet
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–26. https://arxiv.org/pdf/2202.02890 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–26. https://arxiv.org/pdf/2202.02890 Internet 489 In International Conference on Machine Learning, pages 4644–4653.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–26. https://arxiv.org/pdf/2202.02890 Internet 489 In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–14.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–26. https://arxiv.org/pdf/2202.02890 Internet 489 In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–14. https://arxiv.org/pdf/2202.02890
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–26. https://arxiv.org/pdf/2202.02890 Internet 489 In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–14.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–26. https://arxiv.org/pdf/2202.02890 Internet 489 In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–14. https://arxiv.org/pdf/2202.02890 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–26. https://arxiv.org/pdf/2202.02890 Internet 489 In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–14. https://arxiv.org/pdf/2202.02890 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–26. https://arxiv.org/pdf/2202.02890 Internet 489 In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–14. https://arxiv.org/pdf/2202.02890 Internet 490 In International Conference on Machine Learning, pages 4644–4653.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source:	In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–26. https://arxiv.org/pdf/2202.02890 Internet 489 In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–14. https://arxiv.org/pdf/2202.02890 Internet 490 In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–16.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: Source: Source Content: Source: Source Content: Source: Source Content:	In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–26. https://arxiv.org/pdf/2202.02890 Internet 489 In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–14. https://arxiv.org/pdf/2202.02890 Internet 490 In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–16. https://arxiv.org/pdf/2202.02890
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source:	In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–26. https://arxiv.org/pdf/2202.02890 Internet 489 In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–14. https://arxiv.org/pdf/2202.02890 Internet 490 In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–16.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source: From:	In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–26. https://arxiv.org/pdf/2202.02890 Internet 489 In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–14. https://arxiv.org/pdf/2202.02890 Internet 490 In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–16. https://arxiv.org/pdf/2202.02890 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–26. https://arxiv.org/pdf/2202.02890 Internet 489 In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–14. https://arxiv.org/pdf/2202.02890 Internet 490 In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–16. https://arxiv.org/pdf/2202.02890 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–26. https://arxiv.org/pdf/2202.02890 Internet 489 In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–14. https://arxiv.org/pdf/2202.02890 Internet 490 In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–16. https://arxiv.org/pdf/2202.02890 Internet 491 In International Conference on Machine Learning, pages 4644–4653.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–26. https://arxiv.org/pdf/2202.02890 Internet 489 In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–14. https://arxiv.org/pdf/2202.02890 Internet 490 In International Conference on Machine Learning, pages 4644–4653. International Conference on Learning Representations, pages 1–16. https://arxiv.org/pdf/2202.02890 Internet

From:	Internet
Index:	492
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	International Conference on Learning Representations, pages 1–26.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	493
Suspected Sentence:	Error bounds for approximations with deep relu networks.
Source Content:	Error bounds for approximations with deep ReLU networks.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	494
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	International Conference on Learning Representations, pages 1–17.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	495
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	International Conference on Machine Learning, pages 214–223.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	496
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	International Conference on Machine Learning, pages 224–232.
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Source:	https://arxiv.org/pdf/2202.02890
From:	
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_	https://arxiv.org/pdf/2202.02890
From:	https://arxiv.org/pdf/2202.02890 Internet
From: Index:	https://arxiv.org/pdf/2202.02890 Internet 497 In International Conference on Machine Learning, pages
From: Index: Suspected Sentence:	https://arxiv.org/pdf/2202.02890 Internet 497 In International Conference on Machine Learning, pages 11513–11522.
Index: Suspected Sentence: Source Content:	https://arxiv.org/pdf/2202.02890 Internet 497 In International Conference on Machine Learning, pages 11513–11522. International Conference on Learning Representations, pages 1–10.

Index: 498

Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	International Conference on Learning Representations, pages 1–26.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	499
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	International Conference on Learning Representations, pages 1–14.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	500
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	International Conference on Learning Representations, pages 1–16.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	501
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	International Conference on Machine Learning, pages 1278–1286.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	502
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	International Conference on Learning Representations, pages 1–26.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet
Index:	503
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning, pages 3060–3070,
	2019.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	504
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International conference on machine learning, pages 3918–3926.

Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	505
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–210
Source Content:	In International Conference on Machine Learning, pages 1068–107
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	506
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–210
Source Content:	In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	507
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–210
Source Content:	In International Conference on Machine Learning, pages 1362–13
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	508
Suspected Sentence:	
Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 2093–21
Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 2093–210 In Asian Conference on Machine Learning, pages 174–189, 2016.
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 2093–21 In Asian Conference on Machine Learning, pages 174–189, 2016. https://arxiv.org/pdf/2011.06801 Internet
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 2093–210 In Asian Conference on Machine Learning, pages 174–189, 2016. https://arxiv.org/pdf/2011.06801 Internet
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 2093–210 In Asian Conference on Machine Learning, pages 174–189, 2016. https://arxiv.org/pdf/2011.06801 Internet 509 In International Conference on Machine Learning, pages 2093–210
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 2093–210 In Asian Conference on Machine Learning, pages 174–189, 2016. https://arxiv.org/pdf/2011.06801 Internet 509 In International Conference on Machine Learning, pages 2093–210
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 2093–210 In Asian Conference on Machine Learning, pages 174–189, 2016. https://arxiv.org/pdf/2011.06801 Internet 509 In International Conference on Machine Learning, pages 2093–210 In International Conference on Machine Learning, pages 1645–168
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 2093–210 In Asian Conference on Machine Learning, pages 174–189, 2016. https://arxiv.org/pdf/2011.06801 Internet 509 In International Conference on Machine Learning, pages 2093–210 In International Conference on Machine Learning, pages 1645–165 https://arxiv.org/pdf/2011.06801
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 2093–210 In Asian Conference on Machine Learning, pages 174–189, 2016. https://arxiv.org/pdf/2011.06801 Internet 509 In International Conference on Machine Learning, pages 2093–210 In International Conference on Machine Learning, pages 1645–165 https://arxiv.org/pdf/2011.06801
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 2093–210 In Asian Conference on Machine Learning, pages 174–189, 2016. https://arxiv.org/pdf/2011.06801 Internet 509 In International Conference on Machine Learning, pages 2093–210 In International Conference on Machine Learning, pages 1645–169 https://arxiv.org/pdf/2011.06801 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 2093–210 In Asian Conference on Machine Learning, pages 174–189, 2016. https://arxiv.org/pdf/2011.06801 Internet 509 In International Conference on Machine Learning, pages 2093–210 In International Conference on Machine Learning, pages 1645–169 https://arxiv.org/pdf/2011.06801 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source:	In International Conference on Machine Learning, pages 2093–210 In Asian Conference on Machine Learning, pages 174–189, 2016. https://arxiv.org/pdf/2011.06801 Internet 509 In International Conference on Machine Learning, pages 2093–210 In International Conference on Machine Learning, pages 1645–163 https://arxiv.org/pdf/2011.06801 Internet 510 In International Conference on Machine Learning, pages 2093–210 In International Conference on Machine Learning, pages 2093–210 In 10018 17th IEEE International Conference on Machine Learning
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: Source Content: Source: Source Content:	In International Conference on Machine Learning, pages 2093–210 In Asian Conference on Machine Learning, pages 174–189, 2016. https://arxiv.org/pdf/2011.06801 Internet 509 In International Conference on Machine Learning, pages 2093–210 In International Conference on Machine Learning, pages 1645–163 https://arxiv.org/pdf/2011.06801 Internet 510 In International Conference on Machine Learning, pages 2093–210 In 2018 17th IEEE International Conference on Machine Learning and Applications (ICMLA), pages 722–727.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: Source Content: Source: Source Content:	In International Conference on Machine Learning, pages 2093–210 In Asian Conference on Machine Learning, pages 174–189, 2016. https://arxiv.org/pdf/2011.06801 Internet 509 In International Conference on Machine Learning, pages 2093–210 In International Conference on Machine Learning, pages 1645–163 https://arxiv.org/pdf/2011.06801 Internet 510 In International Conference on Machine Learning, pages 2093–210 In 2018 17th IEEE International Conference on Machine Learning and Applications (ICMLA), pages 722–727. https://arxiv.org/pdf/2011.06801
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 2093–210 In Asian Conference on Machine Learning, pages 174–189, 2016. https://arxiv.org/pdf/2011.06801 Internet 509 In International Conference on Machine Learning, pages 2093–210 In International Conference on Machine Learning, pages 1645–169 https://arxiv.org/pdf/2011.06801 Internet 510 In International Conference on Machine Learning, pages 2093–210 In 2018 17th IEEE International Conference on Machine Learning and Applications (ICMLA), pages 722–727. https://arxiv.org/pdf/2011.06801

Source Content:	In International Conference on Machine Learning, pages 4352–4362, 2019.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	512
Suspected Sentence:	Convergence for score-based generative modeling with polynomial complexity.
Source Content:	Compared with various complex models of score generation, most of the performance generation models are simple RNN-based models.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	513
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning, pages 3060–3070, 2019.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	514
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International conference on machine learning, pages 3918–3926.
Source Content:	In International conference on machine learning, pages 3918–3926. https://arxiv.org/pdf/2011.06801
Source:	https://arxiv.org/pdf/2011.06801
Source:	https://arxiv.org/pdf/2011.06801
Source: From:	https://arxiv.org/pdf/2011.06801 Internet
Source: From: Index:	https://arxiv.org/pdf/2011.06801 Internet 515
Source: From: Index: Suspected Sentence:	https://arxiv.org/pdf/2011.06801 Internet 515 In International conference on machine learning, pages 276–284.
Source: From: Index: Suspected Sentence: Source Content:	https://arxiv.org/pdf/2011.06801 Internet 515 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 1068–1077.
Source: From: Index: Suspected Sentence: Source Content: Source:	https://arxiv.org/pdf/2011.06801 Internet 515 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 1068–1077. https://arxiv.org/pdf/2011.06801
Source: From: Index: Suspected Sentence: Source Content: Source:	https://arxiv.org/pdf/2011.06801 Internet 515 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 1068–1077. https://arxiv.org/pdf/2011.06801
Source: From: Index: Suspected Sentence: Source Content: Source: From:	https://arxiv.org/pdf/2011.06801 Internet 515 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 1068–1077. https://arxiv.org/pdf/2011.06801 Internet
Source: From: Index: Suspected Sentence: Source Content: Source: From:	https://arxiv.org/pdf/2011.06801 Internet 515 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 1068–1077. https://arxiv.org/pdf/2011.06801 Internet
Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	Internet 515 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 1068–1077. https://arxiv.org/pdf/2011.06801 Internet 516 In International conference on machine learning, pages 276–284. In Joint European Conference on Machine Learning and Knowledge
Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	Internet 515 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 1068–1077. https://arxiv.org/pdf/2011.06801 Internet 516 In International conference on machine learning, pages 276–284. In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461.
Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: Source Content:	Internet 515 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 1068–1077. https://arxiv.org/pdf/2011.06801 Internet 516 In International conference on machine learning, pages 276–284. In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461. https://arxiv.org/pdf/2011.06801
Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: Source Content:	Internet 515 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 1068–1077. https://arxiv.org/pdf/2011.06801 Internet 516 In International conference on machine learning, pages 276–284. In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461. https://arxiv.org/pdf/2011.06801
Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source Content:	Internet 515 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 1068–1077. https://arxiv.org/pdf/2011.06801 Internet 516 In International conference on machine learning, pages 276–284. In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461. https://arxiv.org/pdf/2011.06801 Internet
Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Index: Suspected Sentence: Source Content: Index: Index: Index:	Internet 515 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 1068–1077. https://arxiv.org/pdf/2011.06801 Internet 516 In International conference on machine learning, pages 276–284. In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461. https://arxiv.org/pdf/2011.06801 Internet
Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Index: Suspected Sentence: Source: From:	Internet 515 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pages 1068–1077. https://arxiv.org/pdf/2011.06801 Internet 516 In International conference on machine learning, pages 276–284. In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461. https://arxiv.org/pdf/2011.06801 Internet 517 In International conference on machine learning, pages 276–284.

Index:	518
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In Asian Conference on Machine Learning, pages 174–189, 2016.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	519
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning, pages 1645–1654.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	520
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In 2018 17th IEEE International Conference on Machine Learning and Applications (ICMLA), pages 722–727.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	521
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning, pages 4352–4362, 2019.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	522
Suspected Sentence:	Symbolic music generation with diffusion models.
Source Content:	A gan model with self-attention mechanism to generate multi-
	instruments symbolic music.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	523
Suspected Sentence:	Symbolic music generation with diffusion models.
Source Content:	Interactive deep generative models for symbolic music.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	524
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning, pages 3060–3070,

2019.

Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	525
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International conference on machine learning, pages 3918–3926.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	526
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning, pages 1068–1077.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
110111.	monet
Index:	527
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
1101111	
Index:	528
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning, pages 333–3000.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
FIOIII.	internet
1. 1.	500
Index:	529
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In Asian Conference on Machine Learning, pages 174–189, 2016.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	530
muex.	
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
	In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pages 1645–1654.
Suspected Sentence:	
Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 1645–1654.
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 1645–1654. https://arxiv.org/pdf/2011.06801
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 1645–1654. https://arxiv.org/pdf/2011.06801
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 1645–1654. https://arxiv.org/pdf/2011.06801 Internet

Source: https://arxiv.org/pdf/2011.06801	
From: Internet	
Index: 532	
Suspected Sentence: In International Conference on Machine Learning, pages 85	99–8608.
Source Content: In International Conference on Machine Learning, pages 43 2019.	52–4362,
Source: https://arxiv.org/pdf/2011.06801	
From: Internet	
Index: 533	
Suspected Sentence: In Joint European Conference on Machine Learning and Kn Discovery in Databases, pages 19–34.	owledge
Source Content: In Joint European Conference on Machine Learning and Kn Discovery in Databases, pages 454–461.	owledge
Source: https://arxiv.org/pdf/2011.06801	
From: Internet	
Index: 534	
Suspected Sentence: In International Conference on Machine Learning, pages 46	44–4653.
Source Content: In International Conference on Machine Learning, pages 30 2019.	160–3070,
Source: https://arxiv.org/pdf/2011.06801	
From: Internet	
Index: 535	
Suspected Sentence: In International Conference on Machine Learning, pages 46	44–4653.
Source Content: In International conference on machine learning, pages 391	8–3926.
Source: https://arxiv.org/pdf/2011.06801	
From: Internet	
Index: 536	
Suspected Sentence: In International Conference on Machine Learning, pages 46	44–4653.
Source Content: In International Conference on Machine Learning, pages 10	68–1077.
Source: https://arxiv.org/pdf/2011.06801	
From: Internet	
Index: 537	
Suspected Sentence: In International Conference on Machine Learning, pages 46	44–4653.
	owledge
Source Content: In Joint European Conference on Machine Learning and Kn Discovery in Databases, pages 454–461.	

From:	Internet
Index:	538
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning, pages 1362–1371.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	539
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In Asian Conference on Machine Learning, pages 174–189, 2016.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	540
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning, pages 1645–1654.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	541
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In 2018 17th IEEE International Conference on Machine Learning
	and Applications (ICMLA), pages 722–727.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	542
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning, pages 4352–4362,
	2019.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	543
Suspected Sentence:	Improved techniques for training score-based generative models.
Source Content:	Finally, the trained model can automatically generate expressive piano performance based on music score and interpretation
	sequence.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet

Index: 544

Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 3060–3070, 2019. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 545 Suspected Sentence: In International Conference on Machine Learning, pages 3918–3926. 31513–11522. Source Content: In International conference on machine learning, pages 3918–3926. 31513–31522. Source: https://arxiv.org/pdf/2011.06801 Index: 546 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1068–1077. 31513–31522. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 547 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 548 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 11613–11513–11522. Source Content: In International Conference on Machine Learning, pages 11613–11522. Source Content: In International Conference on Machine Learning, pages 1162–1371. Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801 From: Internet		
Source: https://arxiv.org/pdf/2011.08801 From: Internet Index: 545 Suspected Sentence: In International Conference on Machine Learning, pages 3918–3926. Source Content: In International conference on machine learning, pages 3918–3926. Source: https://arxiv.org/pdf/2011.08801 From: Internet Index: 546 Suspected Sentence: In International Conference on Machine Learning, pages 1068–1077. Source Content: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1068–1077. Source: https://arxiv.org/pdf/2011.08801 From: Internet Index: 547 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461. Source: https://arxiv.org/pdf/2011.08801 From: Internet Index: 548 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1362–1371. Source: https://arxiv.org/pdf/2011.08801 From: Internet Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 174–189, 2016. Source Content: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.08801	Suspected Sentence:	
Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 545 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International conference on machine learning, pages 3918–3926. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 546 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 11513–11522. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 547 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 548 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1362–1371. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 174–189, 2016. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016.	Source Content:	
Index: 545 In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on machine learning, pages 3918–3926. Source Content: In International conference on machine learning, pages 3918–3926. Source: https://arxiv.org/pdf/2011.06801 From: International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1068–1077. Source: https://arxiv.org/pdf/2011.06801 From: International Conference on Machine Learning, pages 1068–1077. Source: https://arxiv.org/pdf/2011.06801 International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461. Source: https://arxiv.org/pdf/2011.06801 International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1362–1371. Source: https://arxiv.org/pdf/2011.06801 International Conference on Machine Learning, pages 1362–1371. International Con	Source:	
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Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International conference on machine learning, pages 3918–3926. https://arxiv.org/pdf/2011.06801 From: Internet Index: 546 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1068–1077. https://arxiv.org/pdf/2011.06801 From: Internet Index: 547 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 548 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1362–1371. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 174–189, 2016. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801	T TOTAL.	memer
Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International conference on machine learning, pages 3918–3926. https://arxiv.org/pdf/2011.06801 From: Internet Index: 546 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1068–1077. https://arxiv.org/pdf/2011.06801 From: Internet Index: 547 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 548 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1362–1371. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801		
Source Content: In International conference on machine learning, pages 3918–3926. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 546 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1068–1077. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 547 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 548 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1362–1371. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801	Index:	545
Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 548 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1068–1077. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 547 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 548 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1362–1371. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: Internet Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 174–189, 2016. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801	Suspected Sentence:	
Index: 546	Source Content:	In International conference on machine learning, pages 3918–3926.
Index: 546 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1068–1077. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 547 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 548 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1362–1371. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. https://arxiv.org/pdf/2011.06801	Source:	https://arxiv.org/pdf/2011.06801
Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1068–1077. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 547 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 548 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1362–1371. https://arxiv.org/pdf/2011.06801 From: Internet Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. https://arxiv.org/pdf/2011.06801	From:	Internet
Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1068–1077. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 547 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 548 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1362–1371. https://arxiv.org/pdf/2011.06801 From: Internet Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801		
Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1068–1077. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 547 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 548 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1362–1371. https://arxiv.org/pdf/2011.06801 From: Internet Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. https://arxiv.org/pdf/2011.06801	Indev:	546
Source Content: In International Conference on Machine Learning, pages 1068–1077. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 547 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 548 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1362–1371. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801		
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Index: 547 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 548 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1362–1371. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801	Source Content:	In International Conference on Machine Learning, pages 1068–1077.
Index: 547 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 548 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1362–1371. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801	Source:	https://arxiv.org/pdf/2011.06801
Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461. Source: https://arxiv.org/pdf/2011.06801 From: Internet Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1362–1371. Source: https://arxiv.org/pdf/2011.06801 From: Index: Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. In Internet Index: Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801	From:	Internet
Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461. Source: https://arxiv.org/pdf/2011.06801 From: Internet Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1362–1371. Source: https://arxiv.org/pdf/2011.06801 From: Index: Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. In Internet Index: Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801		
Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461. Source: https://arxiv.org/pdf/2011.06801 From: Internet Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1362–1371. Source: https://arxiv.org/pdf/2011.06801 From: Index: Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. In Internet Index: Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801	Index:	547
Source Content: In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 454–461. Source: https://arxiv.org/pdf/2011.06801 From: Internet Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1362–1371. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 11513–11522. In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801		
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Discovery in Databases, pages 454–461. Source: https://arxiv.org/pdf/2011.06801 From: Internet Internet Internet	Source Content:	In Joint European Conference on Machine Learning and Knowledge
Index: 548 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1362–1371. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801		
Index: 548 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1362–1371. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801	Source:	https://arxiv.org/pdf/2011.06801
Index: 548 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1362–1371. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801	From:	Internet
Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1362–1371. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801		
Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In International Conference on Machine Learning, pages 1362–1371. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801	Index	E40
Source Content: In International Conference on Machine Learning, pages 1362–1371. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801		
Source Content: In International Conference on Machine Learning, pages 1362–1371. Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801	Suspected Sentence:	
Source: https://arxiv.org/pdf/2011.06801 From: Internet Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801	Causea Cambants	
Index: 549 Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801		
Index: Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801	Source:	
Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801	From:	Internet
Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522. Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801		
Source Content: In Asian Conference on Machine Learning, pages 174–189, 2016. Source: https://arxiv.org/pdf/2011.06801	Index:	549
Source: https://arxiv.org/pdf/2011.06801	Suspected Sentence:	
Source: https://arxiv.org/pdf/2011.06801	Source Content:	In Asian Conference on Machine Learning, pages 174–189, 2016.
	Source:	

Index: 550

Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning, pages 1645–1654.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	551
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In 2018 17th IEEE International Conference on Machine Learning and Applications (ICMLA), pages 722–727.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	552
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning, pages 4352–4362, 2019.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet
Index:	553
Suspected Sentence:	In Joint European Conference on Machine Learning and Knowledge Discovery in Databases, pages 19–34.
Source Content:	Joint European Conference on Machine Learning and Knowledge Discovery in Databases
Source:	https://link.springer.com/conference/ecml
From:	Internet
Index:	554
Suspected Sentence:	High-order approximation rates for shallow neural networks with cosine and reluk activation functions.
Source Content:	Title:High-Order Approximation Rates for Shallow Neural Networks with Cosine and ReLU\$^k\$ Activation Functions
Source:	https://arxiv.org/abs/2012.07205
From:	Internet
Index:	555
Suspected Sentence:	High-order approximation rates for shallow neural networks with cosine and reluk activation functions.
Source Content:	In addition, we derive improved approximation rates for shallow neural networks with cosine activation function on the spectral Barron space.
Source:	https://arxiv.org/abs/2012.07205
From:	Internet

Index:	556
Suspected Sentence:	Can score-based deep models mitigate the curse of dimensionality?
Source Content:	Thus it is desirable to consider statistical models in a function class that can mitigate the curse of dimensionality and can be well approximated by deep neural networks.
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet
Index:	557
Suspected Sentence:	For deep neural networks with differentiable activation functions (e.g.
Source Content:	Discussion of: "Nonparametric regression using deep neural networks with ReLU activation function".
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet
Index:	558
Suspected Sentence:	For deep neural networks with differentiable activation functions (e.g.
Source Content:	Nonparametric regression using deep neural networks with ReLU activation function.
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet
Index:	559
Index: Suspected Sentence:	559 Neural Network Learning: Theoretical Foundations.
Suspected Sentence:	Neural Network Learning: Theoretical Foundations.
Suspected Sentence: Source Content:	Neural Network Learning: Theoretical Foundations. Neural Network Learning: Theoretical Foundations.
Suspected Sentence: Source Content: Source:	Neural Network Learning: Theoretical Foundations. Neural Network Learning: Theoretical Foundations. https://arxiv.org/pdf/2107.04907
Suspected Sentence: Source Content: Source:	Neural Network Learning: Theoretical Foundations. Neural Network Learning: Theoretical Foundations. https://arxiv.org/pdf/2107.04907
Suspected Sentence: Source Content: Source: From:	Neural Network Learning: Theoretical Foundations. Neural Network Learning: Theoretical Foundations. https://arxiv.org/pdf/2107.04907 Internet
Suspected Sentence: Source Content: Source: From:	Neural Network Learning: Theoretical Foundations. Neural Network Learning: Theoretical Foundations. https://arxiv.org/pdf/2107.04907 Internet 560 Almost linear vc dimension bounds for piecewise polynomial
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	Neural Network Learning: Theoretical Foundations. Neural Network Learning: Theoretical Foundations. https://arxiv.org/pdf/2107.04907 Internet 560 Almost linear vc dimension bounds for piecewise polynomial networks. Nearly-tight VC-dimension and pseudodimension bounds for
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	Neural Network Learning: Theoretical Foundations. Neural Network Learning: Theoretical Foundations. https://arxiv.org/pdf/2107.04907 Internet 560 Almost linear vc dimension bounds for piecewise polynomial networks. Nearly-tight VC-dimension and pseudodimension bounds for piecewise linear neural networks.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	Neural Network Learning: Theoretical Foundations. Neural Network Learning: Theoretical Foundations. https://arxiv.org/pdf/2107.04907 Internet 560 Almost linear vc dimension bounds for piecewise polynomial networks. Nearly-tight VC-dimension and pseudodimension bounds for piecewise linear neural networks. https://arxiv.org/pdf/2107.04907
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	Neural Network Learning: Theoretical Foundations. Neural Network Learning: Theoretical Foundations. https://arxiv.org/pdf/2107.04907 Internet 560 Almost linear vc dimension bounds for piecewise polynomial networks. Nearly-tight VC-dimension and pseudodimension bounds for piecewise linear neural networks. https://arxiv.org/pdf/2107.04907
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	Neural Network Learning: Theoretical Foundations. Neural Network Learning: Theoretical Foundations. https://arxiv.org/pdf/2107.04907 Internet 560 Almost linear vc dimension bounds for piecewise polynomial networks. Nearly-tight VC-dimension and pseudodimension bounds for piecewise linear neural networks. https://arxiv.org/pdf/2107.04907 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	Neural Network Learning: Theoretical Foundations. Neural Network Learning: Theoretical Foundations. https://arxiv.org/pdf/2107.04907 Internet 560 Almost linear vc dimension bounds for piecewise polynomial networks. Nearly-tight VC-dimension and pseudodimension bounds for piecewise linear neural networks. https://arxiv.org/pdf/2107.04907 Internet 561 Nearly-tight vc-dimension and pseudodimension bounds for
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	Neural Network Learning: Theoretical Foundations. Neural Network Learning: Theoretical Foundations. https://arxiv.org/pdf/2107.04907 Internet 560 Almost linear vc dimension bounds for piecewise polynomial networks. Nearly-tight VC-dimension and pseudodimension bounds for piecewise linear neural networks. https://arxiv.org/pdf/2107.04907 Internet 561 Nearly-tight vc-dimension and pseudodimension bounds for piecewise linear neural networks. Nearly-tight vc-dimension and pseudodimension bounds for piecewise linear neural networks. Nearly-tight VC-dimension and pseudodimension bounds for

Index:	562
Suspected Sentence:	On deep learning as a remedy for the curse of dimensionality in nonparametric regression.
Source Content:	On deep learning as a remedy for the curse of dimensionality in nonparametric regression.
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet
Index:	563
Suspected Sentence:	Deep nonparametric regression on approximately low-dimensional manifolds.
Source Content:	Efficient approximation of deep relu networks for functions on low dimensional manifolds.
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet
Index:	564
Suspected Sentence:	Deep nonparametric regression on approximately low-dimensional manifolds.
Source Content:	Deep nonparametric regression on approximately low-dimensional manifolds.
Source:	https://arxiv.org/pdf/2107.04907
Jource.	11ttps://arxiv.org/pui/2107.04307
From:	Internet
_	
_	
From:	Internet
From: Index:	Internet 565
Index: Suspected Sentence:	565 Deep network approximation for smooth functions. In Section 6 we present a result on the approximation error of
Index: Suspected Sentence: Source Content:	Internet 565 Deep network approximation for smooth functions. In Section 6 we present a result on the approximation error of composite functions using deep neural networks.
Index: Suspected Sentence: Source Content: Source:	Internet 565 Deep network approximation for smooth functions. In Section 6 we present a result on the approximation error of composite functions using deep neural networks. https://arxiv.org/pdf/2107.04907
Index: Suspected Sentence: Source Content: Source:	Internet 565 Deep network approximation for smooth functions. In Section 6 we present a result on the approximation error of composite functions using deep neural networks. https://arxiv.org/pdf/2107.04907
Index: Suspected Sentence: Source Content: Source: From:	565 Deep network approximation for smooth functions. In Section 6 we present a result on the approximation error of composite functions using deep neural networks. https://arxiv.org/pdf/2107.04907 Internet
Index: Suspected Sentence: Source Content: Source: From:	565 Deep network approximation for smooth functions. In Section 6 we present a result on the approximation error of composite functions using deep neural networks. https://arxiv.org/pdf/2107.04907 Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	565 Deep network approximation for smooth functions. In Section 6 we present a result on the approximation error of composite functions using deep neural networks. https://arxiv.org/pdf/2107.04907 Internet 566 Deep network approximation for smooth functions. Efficient approximation of deep relu networks for functions on low
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	565 Deep network approximation for smooth functions. In Section 6 we present a result on the approximation error of composite functions using deep neural networks. https://arxiv.org/pdf/2107.04907 Internet 566 Deep network approximation for smooth functions. Efficient approximation of deep relu networks for functions on low dimensional manifolds.
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	565 Deep network approximation for smooth functions. In Section 6 we present a result on the approximation error of composite functions using deep neural networks. https://arxiv.org/pdf/2107.04907 Internet 566 Deep network approximation for smooth functions. Efficient approximation of deep relu networks for functions on low dimensional manifolds. https://arxiv.org/pdf/2107.04907
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	565 Deep network approximation for smooth functions. In Section 6 we present a result on the approximation error of composite functions using deep neural networks. https://arxiv.org/pdf/2107.04907 Internet 566 Deep network approximation for smooth functions. Efficient approximation of deep relu networks for functions on low dimensional manifolds. https://arxiv.org/pdf/2107.04907
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	565 Deep network approximation for smooth functions. In Section 6 we present a result on the approximation error of composite functions using deep neural networks. https://arxiv.org/pdf/2107.04907 Internet 566 Deep network approximation for smooth functions. Efficient approximation of deep relu networks for functions on low dimensional manifolds. https://arxiv.org/pdf/2107.04907 Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Index: Index: Index: Index: Index: Index: Index: Index:	565 Deep network approximation for smooth functions. In Section 6 we present a result on the approximation error of composite functions using deep neural networks. https://arxiv.org/pdf/2107.04907 Internet 566 Deep network approximation for smooth functions. Efficient approximation of deep relu networks for functions on low dimensional manifolds. https://arxiv.org/pdf/2107.04907 Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source: From:	565 Deep network approximation for smooth functions. In Section 6 we present a result on the approximation error of composite functions using deep neural networks. https://arxiv.org/pdf/2107.04907 Internet 566 Deep network approximation for smooth functions. Efficient approximation of deep relu networks for functions on low dimensional manifolds. https://arxiv.org/pdf/2107.04907 Internet 567 Deep network approximation for smooth functions.

Index:	568
Suspected Sentence:	Deep network approximation for smooth functions.
Source Content:	Optimal approximation of continuous functions by very deep ReLU networks.
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet
Index:	569
Suspected Sentence:	Deep relu network approximation of functions on a manifold.
Source Content:	Efficient approximation of deep relu networks for functions on low dimensional manifolds.
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet
Index:	570
Suspected Sentence:	Deep relu network approximation of functions on a manifold.
Source Content:	Deep relu network approximation of functions on a manifold.
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet
Index:	571
Suspected Sentence:	Deep relu network approximation of functions on a manifold.
Source Content:	Optimal approximation of continuous functions by very deep ReLU networks.
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet
Index:	572
Suspected Sentence:	Nonparametric regression using deep neural networks with ReLU 13 activation function (with discussion).
Source Content:	Discussion of: "Nonparametric regression using deep neural networks with ReLU activation function".
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet
Index:	573
Suspected Sentence:	Nonparametric regression using deep neural networks with ReLU 13 activation function (with discussion).
Source Content:	Nonparametric regression using deep neural networks with ReLU activation function.
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet

Index:	574
Suspected Sentence:	Deep quantile regression: Mitigating the curse of dimensionality through composition.
Source Content:	Deep Quantile Regression: Mitigating the Curse of Dimensionality Through Composition Guohao Shen* Yuling Jiao† Yuanyuan Lin‡ Joel L.
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet
Index:	575
Suspected Sentence:	Deep quantile regression: Mitigating the curse of dimensionality through composition.
Source Content:	Therefore, DQR is able to mitigate the curse of dimensionality under the assumption that the conditional quantile function has a compositional structure.
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet
Index:	576
Suspected Sentence:	Deep quantile regression: Mitigating the curse of dimensionality through composition.
Source Content:	This shows that DQR can mitigate the curse of dimensionality under the assumption that the target regression function belongs to the class of composite functions.
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet
Index:	577
Suspected Sentence:	Deep quantile regression: Mitigating the curse of dimensionality through composition.
Source Content:	To mitigate the curse of dimensionality, we assume that the target quantile regression function has a compositional structure.
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet
Index:	578
Suspected Sentence:	Robust nonparametric regression with deep neural networks.
Source Content:	We study the nonparametric quantile regression estimator using deep neural networks to approximate the target conditional quantile function.
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet
Index:	579
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Robust nonparametric regression with deep neural networks.

Suspected Sentence:

-	e nonparametric quantile regression estimator using networks to approximate the target regression function.
Source: https://arxiv.	org/pdf/2107.04907
From: Internet	
Index: 580	
Suspected Sentence: Robust nonp	parametric regression with deep neural networks.
	everal recent important studies on least squares ric regression using deep neural networks.
Source: https://arxiv.	org/pdf/2107.04907
From: Internet	
Index: 581	
Suspected Sentence: Robust non	parametric regression with deep neural networks.
•	, much work has been done to study the properties of the es nonparametric regression estimators using deep neural
Source: https://arxiv.	org/pdf/2107.04907
From: Internet	
Index: 582	
Suspected Sentence: Robust non	parametric regression with deep neural networks.
	we study the convergence properties of nonparametric ression using deep neural networks.
Source: https://arxiv.	org/pdf/2107.04907
From: Internet	
Index: 583	
Suspected Sentence: Robust nonp	parametric regression with deep neural networks.
	of: "Nonparametric regression using deep neural th ReLU activation function".
Source: https://arxiv.	org/pdf/2107.04907
From: Internet	
Index: 584	
Suspected Sentence: Robust non	parametric regression with deep neural networks.
Source Content: Nonparame activation fu	tric regression using deep neural networks with ReLU nction.
Source: https://arxiv.	org/pdf/2107.04907
From: Internet	
Index: 585	
	rk approximation characterized by number of neurons.

Source:	https://arxiv.org/pdf/2107.04907
From:	Internet
Index:	586
Suspected Sentence:	Optimal global rates of convergence for nonparametric regression.
Source Content:	In particular, it can be estimated with the optimal rate of convergence
	of the univariate nonparametric regression (Stone, 1986).
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet
Index:	587
Suspected Sentence:	Optimal global rates of convergence for nonparametric regression.
Source Content:	Optimal global rates of convergence for nonparametric regression.
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet
Index:	588
Suspected Sentence:	Error bounds for approximations with deep relu networks.
Source Content:	We establish the error bounds for approximating a composite
	function using deep neural networks in Theorem 3 in Section 6.
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet
Index:	589
Index: Suspected Sentence:	589 Error bounds for approximations with deep relu networks.
Index: Suspected Sentence: Source Content:	589 Error bounds for approximations with deep relu networks. Error bounds for approximations with deep ReLU networks.
Index: Suspected Sentence: Source Content: Source:	589 Error bounds for approximations with deep relu networks. Error bounds for approximations with deep ReLU networks. https://arxiv.org/pdf/2107.04907
Index: Suspected Sentence: Source Content:	589 Error bounds for approximations with deep relu networks. Error bounds for approximations with deep ReLU networks.
Index: Suspected Sentence: Source Content: Source: From:	589 Error bounds for approximations with deep relu networks. Error bounds for approximations with deep ReLU networks. https://arxiv.org/pdf/2107.04907 Internet
Index: Suspected Sentence: Source Content: Source: From:	589 Error bounds for approximations with deep relu networks. Error bounds for approximations with deep ReLU networks. https://arxiv.org/pdf/2107.04907 Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	589 Error bounds for approximations with deep relu networks. Error bounds for approximations with deep ReLU networks. https://arxiv.org/pdf/2107.04907 Internet 590 In International Conference on Machine Learning, pages 2093–2101.
Index: Suspected Sentence: Source Content: Source: From:	589 Error bounds for approximations with deep relu networks. Error bounds for approximations with deep ReLU networks. https://arxiv.org/pdf/2107.04907 Internet 590 In International Conference on Machine Learning, pages 2093–2101. in International conference on machine learning, 2323–2332 (PMLR,
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	589 Error bounds for approximations with deep relu networks. Error bounds for approximations with deep ReLU networks. https://arxiv.org/pdf/2107.04907 Internet 590 In International Conference on Machine Learning, pages 2093–2101. in International conference on machine learning, 2323–2332 (PMLR, 2018).
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	589 Error bounds for approximations with deep relu networks. Error bounds for approximations with deep ReLU networks. https://arxiv.org/pdf/2107.04907 Internet 590 In International Conference on Machine Learning, pages 2093–2101. in International conference on machine learning, 2323–2332 (PMLR, 2018). https://www.nature.com/articles/s41524-022-00734-6
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	589 Error bounds for approximations with deep relu networks. Error bounds for approximations with deep ReLU networks. https://arxiv.org/pdf/2107.04907 Internet 590 In International Conference on Machine Learning, pages 2093–2101. in International conference on machine learning, 2323–2332 (PMLR, 2018).
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	589 Error bounds for approximations with deep relu networks. Error bounds for approximations with deep ReLU networks. https://arxiv.org/pdf/2107.04907 Internet 590 In International Conference on Machine Learning, pages 2093–2101. in International conference on machine learning, 2323–2332 (PMLR, 2018). https://www.nature.com/articles/s41524-022-00734-6
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	589 Error bounds for approximations with deep relu networks. Error bounds for approximations with deep ReLU networks. https://arxiv.org/pdf/2107.04907 Internet 590 In International Conference on Machine Learning, pages 2093–2101. in International conference on machine learning, 2323–2332 (PMLR, 2018). https://www.nature.com/articles/s41524-022-00734-6 Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	Error bounds for approximations with deep relu networks. Error bounds for approximations with deep ReLU networks. https://arxiv.org/pdf/2107.04907 Internet 590 In International Conference on Machine Learning, pages 2093–2101. in International conference on machine learning, 2323–2332 (PMLR, 2018). https://www.nature.com/articles/s41524-022-00734-6 Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	589 Error bounds for approximations with deep relu networks. Error bounds for approximations with deep ReLU networks. https://arxiv.org/pdf/2107.04907 Internet 590 In International Conference on Machine Learning, pages 2093–2101. in International conference on machine learning, 2323–2332 (PMLR, 2018). https://www.nature.com/articles/s41524-022-00734-6 Internet 591 In International Conference on Machine Learning, pages 2093–2101.
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	589 Error bounds for approximations with deep relu networks. Error bounds for approximations with deep ReLU networks. https://arxiv.org/pdf/2107.04907 Internet 590 In International Conference on Machine Learning, pages 2093–2101. in International conference on machine learning, 2323–2332 (PMLR, 2018). https://www.nature.com/articles/s41524-022-00734-6 Internet 591 In International Conference on Machine Learning, pages 2093–2101. in International Conference on Machine Learning, 4907–4916
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: Sour	589 Error bounds for approximations with deep relu networks. Error bounds for approximations with deep ReLU networks. https://arxiv.org/pdf/2107.04907 Internet 590 In International Conference on Machine Learning, pages 2093–2101. in International conference on machine learning, 2323–2332 (PMLR, 2018). https://www.nature.com/articles/s41524-022-00734-6 Internet 591 In International Conference on Machine Learning, pages 2093–2101. in International Conference on Machine Learning, 4907–4916 (PMLR, 2018).

Index:	592
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	in International Conference on Machine Learning, 11117–11128 (PMLR, 2020).
Source:	https://www.nature.com/articles/s41524-022-00734-6
From:	Internet
Index:	593
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	in international conference on machine learning, 1050–1059 (PMLR, 2016).
Source:	https://www.nature.com/articles/s41524-022-00734-6
From:	Internet
Index:	594
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	in International conference on machine learning, 2323–2332 (PMLR, 2018).
Source:	https://www.nature.com/articles/s41524-022-00734-6
From:	Internet
Index:	595
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	in International Conference on Machine Learning, 4907–4916 (PMLR, 2018).
Source:	https://www.nature.com/articles/s41524-022-00734-6
From:	Internet
Index:	596
Suspected Sentence:	
Course Contents	In International conference on machine learning, pages 276–284.
Source Content:	in International conference on Machine Learning, pages 276–284. in International Conference on Machine Learning, 11117–11128 (PMLR, 2020).
Source Content:	in International Conference on Machine Learning, 11117–11128
	in International Conference on Machine Learning, 11117–11128 (PMLR, 2020).
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Source Content:	in International conference on machine learning, 2323–2332 (PMLR, 2018).
Source:	https://www.nature.com/articles/s41524-022-00734-6
From:	Internet
Index:	599
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608
Source Content:	in International Conference on Machine Learning, 4907–4916 (PMLR, 2018).
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From:	Internet
Index:	600
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608
Source Content:	in International Conference on Machine Learning, 11117–11128 (PMLR, 2020).
Source:	https://www.nature.com/articles/s41524-022-00734-6
From:	Internet
Index:	601
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608
Source Content:	in international conference on machine learning, 1050–1059 (PMLR 2016).
Source:	https://www.nature.com/articles/s41524-022-00734-6
From:	Internet
lada	600
Index: Suspected Sentence:	602 In International Conference on Machine Learning, pages 4644–4653
Source Content:	in International conference on machine learning, 2323–2332 (PMLR 2018).
	2010).
Source:	https://www.nature.com/articles/s41524-022-00734-6
Source: From:	https://www.nature.com/articles/s41524-022-00734-6 Internet
From:	Internet 603
From: Index:	Internet 603
From: Index: Suspected Sentence:	603 In International Conference on Machine Learning, pages 4644–4653 in International Conference on Machine Learning, 4907–4916
Index: Suspected Sentence: Source Content:	Internet 603 In International Conference on Machine Learning, pages 4644–4653 in International Conference on Machine Learning, 4907–4916 (PMLR, 2018).
Index: Suspected Sentence: Source Content: Source:	603 In International Conference on Machine Learning, pages 4644–4653 in International Conference on Machine Learning, 4907–4916 (PMLR, 2018). https://www.nature.com/articles/s41524-022-00734-6
Index: Suspected Sentence: Source Content: Source:	603 In International Conference on Machine Learning, pages 4644–4653 in International Conference on Machine Learning, 4907–4916 (PMLR, 2018). https://www.nature.com/articles/s41524-022-00734-6
Index: Suspected Sentence: Source Content: Source: From:	Internet 603 In International Conference on Machine Learning, pages 4644–4653 in International Conference on Machine Learning, 4907–4916 (PMLR, 2018). https://www.nature.com/articles/s41524-022-00734-6 Internet

Source:	https://www.nature.com/articles/s41524-022-00734-6
From:	Internet
Index:	605
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	in international conference on machine learning, 1050–1059 (PMLR,
	2016).
Source:	https://www.nature.com/articles/s41524-022-00734-6
From:	Internet
Index:	606
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	in International conference on machine learning, 2323–2332 (PMLR, 2018).
Source:	https://www.nature.com/articles/s41524-022-00734-6
From:	Internet
Index:	607
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	in International Conference on Machine Learning, 4907–4916
	(PMLR, 2018).
Source:	https://www.nature.com/articles/s41524-022-00734-6
From:	Internet
Index:	608
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	in International Conference on Machine Learning, 11117–11128 (PMLR, 2020).
Source:	https://www.nature.com/articles/s41524-022-00734-6
From:	Internet
Index:	609
Suspected Sentence:	In International Conference on Machine Learning, pages
Caspotta Sentence.	11513–11522.
Source Content:	in international conference on machine learning, 1050–1059 (PMLR, 2016).
Source:	https://www.nature.com/articles/s41524-022-00734-6
From:	Internet
Index:	610
Suspected Sentence:	Grad-tts: A diffusion probabilistic model for text-to-speech.
Source Content:	Title:Grad-TTS: A Diffusion Probabilistic Model for Text-to-Speech
Course Content.	Title. Stad-110. A Diffusion 1 Tobabilistic Model for Text-to-Speech

Source:	https://arxiv.org/abs/2105.06337
From:	Internet
Index:	611
Suspected Sentence:	Simultaneous neural network approximation for smooth functions.
Source Content:	Title:Optimal approximation of piecewise smooth functions using deep ReLU neural networks
Source:	https://arxiv.org/abs/1709.05289
From:	Internet
Index:	612
Suspected Sentence:	Approximating smooth functions by deep neural networks with sigmoid activation function.
Source Content:	Title:Optimal approximation of piecewise smooth functions using deep ReLU neural networks
Source:	https://arxiv.org/abs/1709.05289
From:	Internet
Index:	613
Suspected Sentence:	Deep network approximation for smooth functions.
Source Content:	Title:Optimal approximation of piecewise smooth functions using deep ReLU neural networks
Source:	https://arxiv.org/abs/1709.05289
From:	Internet
Index:	614
Index: Suspected Sentence:	614 Optimal approximation of piecewise smooth functions using deep relu neural networks.
	Optimal approximation of piecewise smooth functions using deep
Suspected Sentence:	Optimal approximation of piecewise smooth functions using deep relu neural networks. Title:Optimal approximation of piecewise smooth functions using
Suspected Sentence: Source Content:	Optimal approximation of piecewise smooth functions using deep relu neural networks. Title:Optimal approximation of piecewise smooth functions using deep ReLU neural networks
Suspected Sentence: Source Content: Source:	Optimal approximation of piecewise smooth functions using deep relu neural networks. Title:Optimal approximation of piecewise smooth functions using deep ReLU neural networks https://arxiv.org/abs/1709.05289
Suspected Sentence: Source Content: Source:	Optimal approximation of piecewise smooth functions using deep relu neural networks. Title:Optimal approximation of piecewise smooth functions using deep ReLU neural networks https://arxiv.org/abs/1709.05289
Suspected Sentence: Source Content: Source: From:	Optimal approximation of piecewise smooth functions using deep relu neural networks. Title:Optimal approximation of piecewise smooth functions using deep ReLU neural networks https://arxiv.org/abs/1709.05289 Internet
Suspected Sentence: Source Content: Source: From:	Optimal approximation of piecewise smooth functions using deep relu neural networks. Title:Optimal approximation of piecewise smooth functions using deep ReLU neural networks https://arxiv.org/abs/1709.05289 Internet 615 Optimal approximation of piecewise smooth functions using deep
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	Optimal approximation of piecewise smooth functions using deep relu neural networks. Title:Optimal approximation of piecewise smooth functions using deep ReLU neural networks https://arxiv.org/abs/1709.05289 Internet 615 Optimal approximation of piecewise smooth functions using deep relu neural networks. This partly explains the benefits of depth for ReLU networks by showing that deep networks are necessary to achieve efficient
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	Optimal approximation of piecewise smooth functions using deep relu neural networks. Title:Optimal approximation of piecewise smooth functions using deep ReLU neural networks https://arxiv.org/abs/1709.05289 Internet 615 Optimal approximation of piecewise smooth functions using deep relu neural networks. This partly explains the benefits of depth for ReLU networks by showing that deep networks are necessary to achieve efficient approximation of (piecewise) smooth functions.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	Optimal approximation of piecewise smooth functions using deep relu neural networks. Title:Optimal approximation of piecewise smooth functions using deep ReLU neural networks https://arxiv.org/abs/1709.05289 Internet 615 Optimal approximation of piecewise smooth functions using deep relu neural networks. This partly explains the benefits of depth for ReLU networks by showing that deep networks are necessary to achieve efficient approximation of (piecewise) smooth functions. https://arxiv.org/abs/1709.05289
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	Optimal approximation of piecewise smooth functions using deep relu neural networks. Title:Optimal approximation of piecewise smooth functions using deep ReLU neural networks https://arxiv.org/abs/1709.05289 Internet 615 Optimal approximation of piecewise smooth functions using deep relu neural networks. This partly explains the benefits of depth for ReLU networks by showing that deep networks are necessary to achieve efficient approximation of (piecewise) smooth functions. https://arxiv.org/abs/1709.05289

Source Content:	Title:Optimal approximation of piecewise smooth functions using deep ReLU neural networks
Source:	https://arxiv.org/abs/1709.05289
From:	Internet
Index:	617
Suspected Sentence:	Robust nonparametric regression with deep neural networks.
Source Content:	Title:Robust Nonparametric Regression with Deep Neural Networks
Source:	https://arxiv.org/abs/2107.10343
From:	Internet
Index:	618
Suspected Sentence:	Score-based generative modeling through stochastic differential equations.
Source Content:	Title:Score-Based Generative Modeling through Stochastic Differential Equations
Source:	https://arxiv.org/abs/2011.13456
From:	Internet
Index:	619
Suspected Sentence:	Density estimation in infinite dimensional exponential families.
Source Content:	Title:Density Estimation in Infinite Dimensional Exponential Families
Source:	https://arxiv.org/abs/1312.3516
From:	Internet
Index:	620
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning (ICML) (2021).
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet
Index:	621
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning (ICML) (2021), PMLR.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet
Index:	622
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In Proceedings of the 38th International Conference on Machine Learning (18–24 Jul 2021), Meila M., Zhang T., (Eds.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	623
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In Proceedings of the 34th International Conference on Machine Learning - Volume 70 (2017), ICML'17, JMLR.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet
Index:	624
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning (2017), PMLR, pp.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet
Index:	625
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning (ICML) (2021), PMLR.
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Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In Proceedings of the 36th International Conference on Machine Learning (09–15 Jun 2019), Chaudhuri K., Salakhutdinov R., (Eds. https://3dvar.com/Xie2021Neural.pdf Internet 627 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning (ICML) (2021), PMLR. https://3dvar.com/Xie2021Neural.pdf Internet
Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In Proceedings of the 36th International Conference on Machine Learning (09–15 Jun 2019), Chaudhuri K., Salakhutdinov R., (Eds. https://3dvar.com/Xie2021Neural.pdf Internet 627 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning (ICML) (2021), PMLR. https://3dvar.com/Xie2021Neural.pdf Internet 628 In International conference on machine learning, pages 276–284.
Source Content: Source: From: Index: Suspected Sentence: Source Content: Index: Surce: From: Index: Suspected Sentence: Source Content:	In Proceedings of the 36th International Conference on Machine Learning (09–15 Jun 2019), Chaudhuri K., Salakhutdinov R., (Eds. https://3dvar.com/Xie2021Neural.pdf Internet 627 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning (ICML) (2021), PMLR. https://3dvar.com/Xie2021Neural.pdf Internet 628 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning (ICML) (2021).
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From:	Internet
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	Internet
	Internet 642

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Index:	644
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Index: Suspected Sentence:	646 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 38th International Conference on Machine
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Index: Suspected Sentence: Source Content: Source: From:	646 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 38th International Conference on Machine Learning (18–24 Jul 2021), Meila M., Zhang T., (Eds. https://3dvar.com/Xie2021Neural.pdf Internet
Index: Suspected Sentence: Source Content: Source: From:	646 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 38th International Conference on Machine Learning (18–24 Jul 2021), Meila M., Zhang T., (Eds. https://3dvar.com/Xie2021Neural.pdf Internet
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Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	Internet 646 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 38th International Conference on Machine Learning (18–24 Jul 2021), Meila M., Zhang T., (Eds. https://3dvar.com/Xie2021Neural.pdf Internet 647 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 34th International Conference on Machine Learning - Volume 70 (2017), ICML'17, JMLR.
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	Internet 646 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 38th International Conference on Machine Learning (18–24 Jul 2021), Meila M., Zhang T., (Eds. https://3dvar.com/Xie2021Neural.pdf Internet 647 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 34th International Conference on Machine Learning - Volume 70 (2017), ICML'17, JMLR. https://3dvar.com/Xie2021Neural.pdf
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	Internet 646 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 38th International Conference on Machine Learning (18–24 Jul 2021), Meila M., Zhang T., (Eds. https://3dvar.com/Xie2021Neural.pdf Internet 647 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 34th International Conference on Machine Learning - Volume 70 (2017), ICML'17, JMLR. https://3dvar.com/Xie2021Neural.pdf
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	Internet 646 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 38th International Conference on Machine Learning (18–24 Jul 2021), Meila M., Zhang T., (Eds. https://3dvar.com/Xie2021Neural.pdf Internet 647 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 34th International Conference on Machine Learning - Volume 70 (2017), ICML'17, JMLR. https://3dvar.com/Xie2021Neural.pdf Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Index: Index: Index: Index: Index: Index: Index:	Internet 646 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 38th International Conference on Machine Learning (18–24 Jul 2021), Meila M., Zhang T., (Eds. https://3dvar.com/Xie2021Neural.pdf Internet 647 In International Conference on Machine Learning, pages 4644–4653. In Proceedings of the 34th International Conference on Machine Learning - Volume 70 (2017), ICML'17, JMLR. https://3dvar.com/Xie2021Neural.pdf Internet
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Index:	649
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From:	Internet
Index:	650
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Index:	661
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
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Index:	665
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Index:	666
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From:	Internet
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From:	Internet
Index:	669
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From:	Internet
From: Index:	Internet 671
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Index: Suspected Sentence: Source Content: Source:	Internet 671 Neural Network Learning: Theoretical Foundations. Neural network learning: Theoretical foundations. https://arxiv.org/pdf/1901.00137
Index: Suspected Sentence: Source Content:	671 Neural Network Learning: Theoretical Foundations. Neural network learning: Theoretical foundations.
Index: Suspected Sentence: Source Content: Source: From:	671 Neural Network Learning: Theoretical Foundations. Neural network learning: Theoretical foundations. https://arxiv.org/pdf/1901.00137 Internet
Index: Suspected Sentence: Source Content: Source:	671 Neural Network Learning: Theoretical Foundations. Neural network learning: Theoretical foundations. https://arxiv.org/pdf/1901.00137 Internet 672 Almost linear vc dimension bounds for piecewise polynomial
Index: Suspected Sentence: Source Content: Source: From:	671 Neural Network Learning: Theoretical Foundations. Neural network learning: Theoretical foundations. https://arxiv.org/pdf/1901.00137 Internet 672 Almost linear vc dimension bounds for piecewise polynomial networks. Nearly-tight VC-dimension and pseudodimension bounds for
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	671 Neural Network Learning: Theoretical Foundations. Neural network learning: Theoretical foundations. https://arxiv.org/pdf/1901.00137 Internet 672 Almost linear vc dimension bounds for piecewise polynomial networks. Nearly-tight VC-dimension and pseudodimension bounds for piecewise linear neural networks.
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	671 Neural Network Learning: Theoretical Foundations. Neural network learning: Theoretical foundations. https://arxiv.org/pdf/1901.00137 Internet 672 Almost linear vc dimension bounds for piecewise polynomial networks. Nearly-tight VC-dimension and pseudodimension bounds for piecewise linear neural networks. https://arxiv.org/pdf/1901.00137
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	671 Neural Network Learning: Theoretical Foundations. Neural network learning: Theoretical foundations. https://arxiv.org/pdf/1901.00137 Internet 672 Almost linear vc dimension bounds for piecewise polynomial networks. Nearly-tight VC-dimension and pseudodimension bounds for piecewise linear neural networks.
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source Content:	671 Neural Network Learning: Theoretical Foundations. Neural network learning: Theoretical foundations. https://arxiv.org/pdf/1901.00137 Internet 672 Almost linear vc dimension bounds for piecewise polynomial networks. Nearly-tight VC-dimension and pseudodimension bounds for piecewise linear neural networks. https://arxiv.org/pdf/1901.00137 Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source Content: Index: Index: Index: Index: Index:	671 Neural Network Learning: Theoretical Foundations. Neural network learning: Theoretical foundations. https://arxiv.org/pdf/1901.00137 Internet 672 Almost linear vc dimension bounds for piecewise polynomial networks. Nearly-tight VC-dimension and pseudodimension bounds for piecewise linear neural networks. https://arxiv.org/pdf/1901.00137 Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source Content:	671 Neural Network Learning: Theoretical Foundations. Neural network learning: Theoretical foundations. https://arxiv.org/pdf/1901.00137 Internet 672 Almost linear vc dimension bounds for piecewise polynomial networks. Nearly-tight VC-dimension and pseudodimension bounds for piecewise linear neural networks. https://arxiv.org/pdf/1901.00137 Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source Content: Index: Index: Index: Index: Index:	671 Neural Network Learning: Theoretical Foundations. Neural network learning: Theoretical foundations. https://arxiv.org/pdf/1901.00137 Internet 672 Almost linear vc dimension bounds for piecewise polynomial networks. Nearly-tight VC-dimension and pseudodimension bounds for piecewise linear neural networks. https://arxiv.org/pdf/1901.00137 Internet 673 Almost linear vc dimension bounds for piecewise polynomial

From:	Internet
Index:	674
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From:	Internet
Index:	675
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From:	Internet
Index:	676
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From:	Internet
Index:	677
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From:	Internet
Index:	678
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Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	679
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	680

In International Conference on Machine Learning, pages 2093–2101.

Suspected Sentence:

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From:	Internet
Index:	681
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Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	682
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	683
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	684
Index: Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning.
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Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 685 In International Conference on Machine Learning, pages 2093–2101.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 685 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 685 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 685 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 685 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 685 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 686 In International Conference on Machine Learning, pages 2093–2101.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 685 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 686 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: Source: Source Content: Source: Source Content: Source: Source Content:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 685 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 686 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 685 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 686 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source: From:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 685 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 686 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: Source: Source Content: Source: Source Content: Source: Source Content:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 685 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 686 In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137

In International Conference on Machine Learning.

Source Content:

Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	688
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	689
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	690
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	691
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	692
Index: Suspected Sentence:	692 In International Conference on Machine Learning, pages 2093–2101.
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning.
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 693 In International conference on machine learning, pages 276–284.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 693 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 693 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 693 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 693 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 693 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 693 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 694 In International conference on machine learning, pages 276–284.

FIOIII. IIILEINEL	From:	Internet
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Index:	695
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet

Index:	696
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet

Index:	697
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet

Index:	698
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet

Index:	699
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet

Index:	700
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet

Index:	701
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet

Index:	702
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	703
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	704
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	705
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	706
Index: Suspected Sentence:	706 In International conference on machine learning, pages 276–284.
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Suspected Sentence: Source Content:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning.
Suspected Sentence: Source Content: Source:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137
Suspected Sentence: Source Content: Source:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137
Suspected Sentence: Source Content: Source: From:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet
Suspected Sentence: Source Content: Source: From:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 707 In International conference on machine learning, pages 276–284.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 707 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 707 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 707 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 707 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 707 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 707 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 708 In International conference on machine learning, pages 276–284.

Index:	709
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	710
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	711
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	712
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	713
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	714
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	715
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet

Index:	716
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	717
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	718
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	719
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	720
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	721
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	722
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet

Index:	723
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	724
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	725
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	726
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	727
Suspected Sentence:	Nonparametric regression using deep neural networks with ReLU 13 activation function (with discussion).
Source Content:	Nonparametric regression using deep neural networks with ReLU activation function.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	728
Suspected Sentence:	Robust nonparametric regression with deep neural networks.
Source Content:	Nonparametric regression using deep neural networks with ReLU
	activation function.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	729
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.

Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	730
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	731
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	732
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
110111.	monot
Index:	733
	In International Conference on Machine Learning, pages 4644–4653.
Suspected Sentence: Source Content:	5 . 3
	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
	704
Index:	734
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	735
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	736
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137

From:	Internet

Index:	737
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet

Index:	738
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet

Index:	739
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet

Index:	740
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet

Index:	741
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet

Index:	742
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet

Index:	743
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet

Index:	744
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	745
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	746
Suspected Sentence:	Optimal global rates of convergence for nonparametric regression.
Source Content:	Optimal global rates of convergence for nonparametric regression.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	747
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	748
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	749
Suspected Sentence:	In International Conference on Machine Learning, pages
	11513–11522.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	750
Suspected Sentence:	In International Conference on Machine Learning, pages
	11513–11522.

In International Conference on Machine Learning.

Source Content:

Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	751
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	752
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	753
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	754
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	755
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	756
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet

Index:	757
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	758
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	759
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet
Index:	760
Suspected Sentence:	In International Conference on Machine Learning, pages
	11513–11522.
Source Content:	11513–11522. In International Conference on Machine Learning.
Source Content: Source:	
	In International Conference on Machine Learning.
Source:	In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137
Source:	In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137
Source: From:	In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet
Source: From: Index:	In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 761 In International Conference on Machine Learning, pages
Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 761 In International Conference on Machine Learning, pages 11513–11522.
Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 761 In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning.
Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 761 In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137
Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 761 In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137
Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet 761 In International Conference on Machine Learning, pages 11513–11522. In International Conference on Machine Learning. https://arxiv.org/pdf/1901.00137 Internet
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Suspected Sentence: In International Conference on Machine Learning, pages 11513–11522.	
Source Content: In International Conference on Machine Learning.	
Source: https://arxiv.org/pdf/1901.00137	
From: Internet	
Index: 764	
Suspected Sentence: Improved techniques for training score-based generative m	nodels.
Source Content: Title:Improved Techniques for Training Score-Based General Models	rative
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From: Internet	
Index: 765	
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From: Internet	
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Index: 766	
	works.
Index: 766	
Index: 766 Suspected Sentence: Approximation of smoothness classes by deep rectifier nets. Source Content: Title:Approximation of Smoothness Classes by Deep Rectifier.	
Index: 766 Suspected Sentence: Approximation of smoothness classes by deep rectifier nets Source Content: Title:Approximation of Smoothness Classes by Deep Rectified Networks	
Index: 766 Suspected Sentence: Approximation of smoothness classes by deep rectifier nets. Source Content: Title:Approximation of Smoothness Classes by Deep Rectified Networks Source: https://arxiv.org/abs/2007.15645	
Index: 766 Suspected Sentence: Approximation of smoothness classes by deep rectifier nets. Source Content: Title:Approximation of Smoothness Classes by Deep Rectified Networks Source: https://arxiv.org/abs/2007.15645	
Index: 766 Suspected Sentence: Approximation of smoothness classes by deep rectifier nets. Source Content: Title:Approximation of Smoothness Classes by Deep Rectified Networks Source: https://arxiv.org/abs/2007.15645 From: Internet	
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Index: Suspected Sentence: Approximation of smoothness classes by deep rectifier networks Source Content: Title:Approximation of Smoothness Classes by Deep Rectified Networks Source: https://arxiv.org/abs/2007.15645 From: Index: 767 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Title:Approximation of Smoothness Classes by Deep Rectified Networks Title:Approximation of Smoothness Classes by Deep Rectified Networks	fier
Index: 766 Suspected Sentence: Approximation of smoothness classes by deep rectifier nets. Source Content: Title:Approximation of Smoothness Classes by Deep Rectified Networks Source: https://arxiv.org/abs/2007.15645 From: Internet Index: 767 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Title:Approximation of Smoothness Classes by Deep Rectified Networks	fier
Index: 766 Suspected Sentence: Approximation of smoothness classes by deep rectifier networks Source Content: Title:Approximation of Smoothness Classes by Deep Rectified Networks Source: https://arxiv.org/abs/2007.15645 From: Internet Index: 767 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Title:Approximation of Smoothness Classes by Deep Rectified Networks Source: https://arxiv.org/abs/2007.15645	fier
Index: 766 Suspected Sentence: Approximation of smoothness classes by deep rectifier networks Source Content: Title:Approximation of Smoothness Classes by Deep Rectified Networks Source: https://arxiv.org/abs/2007.15645 From: Internet Index: 767 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Title:Approximation of Smoothness Classes by Deep Rectified Networks Source: https://arxiv.org/abs/2007.15645	fier
Index: 766 Suspected Sentence: Approximation of smoothness classes by deep rectifier nets. Source Content: Title:Approximation of Smoothness Classes by Deep Rectified Networks Source: https://arxiv.org/abs/2007.15645 From: Internet Index: 767 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Title:Approximation of Smoothness Classes by Deep Rectified Networks Source: https://arxiv.org/abs/2007.15645 From: Internet	fier
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Index: 766 Suspected Sentence: Approximation of smoothness classes by deep rectifier nets Source Content: Title:Approximation of Smoothness Classes by Deep Rectified Networks Source: https://arxiv.org/abs/2007.15645 From: Internet Index: 767 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Title:Approximation of Smoothness Classes by Deep Rectified Networks Source: https://arxiv.org/abs/2007.15645 From: Internet Index: 768 Suspected Sentence: Diffusion models beat gans on image synthesis.	fier
Index: 766 Suspected Sentence: Approximation of smoothness classes by deep rectifier nets Source Content: Title:Approximation of Smoothness Classes by Deep Rectifier Networks Source: https://arxiv.org/abs/2007.15645 From: Internet Index: 767 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Title:Approximation of Smoothness Classes by Deep Rectifier Networks Source: https://arxiv.org/abs/2007.15645 From: Internet Index: 768 Suspected Sentence: Diffusion models beat gans on image synthesis. Source Content: Title:Diffusion Models Beat GANs on Image Synthesis	fier
Index: 766 Suspected Sentence: Approximation of smoothness classes by deep rectifier nets Source Content: Title:Approximation of Smoothness Classes by Deep Rectified Networks Source: https://arxiv.org/abs/2007.15645 From: Internet Index: 767 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Title:Approximation of Smoothness Classes by Deep Rectified Networks Source: https://arxiv.org/abs/2007.15645 From: Internet Index: 768 Suspected Sentence: Diffusion models beat gans on image synthesis. Source Content: Title:Diffusion Models Beat GANs on Image Synthesis Source: https://arxiv.org/abs/2105.05233	fier
Index: 766 Suspected Sentence: Approximation of smoothness classes by deep rectifier nets Source Content: Title:Approximation of Smoothness Classes by Deep Rectified Networks Source: https://arxiv.org/abs/2007.15645 From: Internet Index: 767 Suspected Sentence: Deep network approximation for smooth functions. Source Content: Title:Approximation of Smoothness Classes by Deep Rectified Networks Source: https://arxiv.org/abs/2007.15645 From: Internet Index: 768 Suspected Sentence: Diffusion models beat gans on image synthesis. Source Content: Title:Diffusion Models Beat GANs on Image Synthesis Source: https://arxiv.org/abs/2105.05233	fier

Source Content:	Title:Deep ReLU network approximation of functions on a manifold
Source:	https://arxiv.org/abs/1908.00695
From:	Internet
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Index:	770
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From:	Internet
Index:	771
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Source Content:	As a part of industry 4.0 automation, most of the manufacturing industry has been implementing computer vision to conduct fully automated product assembly and management processes.
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From:	Internet
Index:	772
	112
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101. In Proceedings of the 25th international conference on Machine
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Index:	775
Suspected Sentence:	Estimation of non-normalized statistical models by score matchin
Source Content:	Score Matching (SM) (see section 2.3) is a novel estimation meth for learning unnormalized statistical models, and is an alternative CD estimation.
Source:	http://dpkingma.com/files/msc-thesis-final.pdf
From:	Internet
Index:	776
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Source Content:	Estimation of non-normalized statistical models by score matchin
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From:	Internet
Index:	777
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In Proceedings of the 25th international conference on Machine learning, pages 1064–1071.
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From:	Internet
Index:	778
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Source Content:	In Proceedings of the 25th international conference on Machine learning, pages 1064–1071.
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From:	Internet
Index:	779
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Source Content: Source: From: Index:	In Proceedings of the 25th international conference on Machine learning, pages 1064–1071. http://dpkingma.com/files/msc-thesis-final.pdf Internet 780 In International Conference on Machine Learning, pages
Source Content: Source: From: Index: Suspected Sentence:	learning, pages 1064–1071. http://dpkingma.com/files/msc-thesis-final.pdf Internet 780 In International Conference on Machine Learning, pages 11513–11522. In Proceedings of the 25th international conference on Machine

Index:	781
Suspected Sentence:	While from the score-based learning perspective, training diffusion probabilistic models is essentially equivalent to the weighted combination of score matching.
Source Content:	They showed that the ELBO used for training diffusion probabilistic models is essentially equivalent to the weighted combination of score matching objectives used in score-based generative modeling.
Source:	http://www.ijncollege.edu.my/nkybccr/training-diffusion-models.html
From:	Internet
Index:	782
Suspected Sentence:	Diffusion models beat gans on image synthesis.
Source Content:	This is the codebase for Diffusion Models Beat GANS on Image Synthesis.
Source:	http://www.ijncollege.edu.my/nkybccr/training-diffusion-models.html
From:	Internet
Index:	783
Suspected Sentence:	Cascaded diffusion models for high fidelity image generation.
Source Content:	Score-based generative models and diffusion probabilistic models have been successful at generating high-quality samples in continuous domains such as images and audio.
Source:	http://www.ijncollege.edu.my/nkybccr/training-diffusion-models.html
From:	Internet
Index:	784
Suspected Sentence:	Gradientfree hamiltonian monte carlo with efficient kernel exponential families.
Source Content:	Title:Gradient-free Hamiltonian Monte Carlo with Efficient Kernel Exponential Families
Source:	https://arxiv.org/abs/1506.02564
From:	Internet
Index:	785
Suspected Sentence:	Estimation of non-normalized statistical models by score matching.
Source Content:	4.3 Conclusion We have proposed a new method, score matching, to
	estimate statistical models in the case where the normalization constant is unknown.
Source:	
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_	constant is unknown. https://www.jmlr.org/papers/volume6/hyvarinen05a/hyvarinen05a.pdf
_	constant is unknown. https://www.jmlr.org/papers/volume6/hyvarinen05a/hyvarinen05a.pdf

Source Content:	5 DISCUSSION In this work we provided analyses and empirical results for understanding the limitations of learning the structure of high-dimensional data with denoising score matching.
Source:	https://arxiv.org/pdf/1910.07762
From:	Internet
Index:	787
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In Proceedings of the 34th International Conference on Machine Learning-Volume 70, pages 1352–1361.
Source:	https://arxiv.org/pdf/1910.07762
From:	Internet
Index:	788
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In Proceedings of the 28th international conference on machine learning (ICML-11), pages 1105– 1112, 2011.
Source:	https://arxiv.org/pdf/1910.07762
From:	Internet
Index:	789
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In Proceedings of the 25th international conference on Machine learning, pages 872–879.
Source:	https://arxiv.org/pdf/1910.07762
From:	Internet
Index:	790
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In Proceedings of the 25th international conference on Machine learning, pages 1064–1071.
Source:	https://arxiv.org/pdf/1910.07762
From:	Internet
Index:	791
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In Proceedings of the 28th international conference on machine learning (ICML-11), pages 681–688, 2011.
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From:	Internet
Index:	792
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Source Content:	Estimation of non-normalized statistical models by score matching.

Source:	https://arxiv.org/pdf/1910.07762
From:	Internet
Index:	793
Suspected Sentence:	In International conference on machine learning, pages 276–28
Source Content:	In Proceedings of the 34th International Conference on Machin Learning-Volume 70, pages 1352–1361.
Source:	https://arxiv.org/pdf/1910.07762
From:	Internet
Index:	794
Suspected Sentence:	In International conference on machine learning, pages 276–28
Source Content:	In Proceedings of the 28th international conference on machine learning (ICML-11), pages 1105–1112, 2011.
Source:	https://arxiv.org/pdf/1910.07762
From:	Internet
Index:	795
Suspected Sentence:	In International conference on machine learning, pages 276–28
Source Content:	In Proceedings of the 25th international conference on Machine learning, pages 872–879.
Source:	https://arxiv.org/pdf/1910.07762
From:	Internet
Index:	796
Suspected Sentence:	In International conference on machine learning, pages 276–28
Source Content:	In Proceedings of the 25th international conference on Machine learning, pages 1064–1071.
Source:	https://arxiv.org/pdf/1910.07762
From:	Internet
Index:	797
Index:	In International conference on machine learning, pages 276–28
Index: Suspected Sentence:	In International conference on machine learning, pages 276–28 In Proceedings of the 28th international conference on machine
Index: Suspected Sentence: Source Content:	In International conference on machine learning, pages 276–28 In Proceedings of the 28th international conference on machine learning (ICML-11), pages 681–688, 2011.
Index: Suspected Sentence: Source Content: Source: From:	In International conference on machine learning, pages 276–28 In Proceedings of the 28th international conference on machine learning (ICML-11), pages 681–688, 2011. https://arxiv.org/pdf/1910.07762 Internet
Index: Suspected Sentence: Source Content: Source: From:	In International conference on machine learning, pages 276–28 In Proceedings of the 28th international conference on machine learning (ICML-11), pages 681–688, 2011. https://arxiv.org/pdf/1910.07762 Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International conference on machine learning, pages 276–28 In Proceedings of the 28th international conference on machine learning (ICML-11), pages 681–688, 2011. https://arxiv.org/pdf/1910.07762 Internet 798 In International Conference on Machine Learning, pages 8599–
Index: Suspected Sentence: Source Content: Source: From:	In International conference on machine learning, pages 276–28 In Proceedings of the 28th international conference on machine learning (ICML-11), pages 681–688, 2011. https://arxiv.org/pdf/1910.07762 Internet 798 In International Conference on Machine Learning, pages 8599–In Proceedings of the 34th International Conference on Machine
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International conference on machine learning, pages 276–28 In Proceedings of the 28th international conference on machine learning (ICML-11), pages 681–688, 2011. https://arxiv.org/pdf/1910.07762 Internet

Index:	799
Suspected Sentence:	In International Conference on Machine Learning, pages 8599-
Source Content:	In Proceedings of the 28th international conference on machine learning (ICML-11), pages 1105–1112, 2011.
Source:	https://arxiv.org/pdf/1910.07762
From:	Internet
Index:	800
Suspected Sentence:	In International Conference on Machine Learning, pages 8599-
Source Content:	In Proceedings of the 25th international conference on Machine learning, pages 872–879.
Source:	https://arxiv.org/pdf/1910.07762
From:	Internet
Index:	801
Suspected Sentence:	In International Conference on Machine Learning, pages 8599-
Source Content:	In Proceedings of the 25th international conference on Machine learning, pages 1064–1071.
Source:	https://arxiv.org/pdf/1910.07762
From:	Internet
Index:	802
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–
Source Content:	In Proceedings of the 28th international conference on machine learning (ICML-11), pages 681–688, 2011.
Source:	https://arxiv.org/pdf/1910.07762
From:	Internet
Index:	803
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Source Content:	In Proceedings of the 34th International Conference on Machine Learning-Volume 70, pages 1352–1361.
Source:	https://arxiv.org/pdf/1910.07762
From:	Internet
Index:	804
Suspected Sentence:	In International Conference on Machine Learning, pages 4644-
	In Proceedings of the 28th international conference on machine
Source Content:	learning (ICML-11), pages 1105– 1112, 2011.
Source Content:	learning (ICML-11), pages 1105– 1112, 2011. https://arxiv.org/pdf/1910.07762

Index:	805
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In Proceedings of the 25th international conference on Machine learning, pages 872–879.
Source:	https://arxiv.org/pdf/1910.07762
From:	Internet
Index:	806
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In Proceedings of the 25th international conference on Machine learning, pages 1064–1071.
Source:	https://arxiv.org/pdf/1910.07762
From:	Internet
Index:	807
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In Proceedings of the 28th international conference on machine learning (ICML-11), pages 681–688, 2011.
Source:	https://arxiv.org/pdf/1910.07762
From:	Internet
Index:	808
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Suspected Sentence: Source Content:	Generative modeling by estimating gradients of the data distribution. Generative modeling by estimating gradients of the data distribution.
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Source Content: Source: From: Index: Suspected Sentence:	Generative modeling by estimating gradients of the data distribution. https://arxiv.org/pdf/1910.07762 Internet 809 Sliced score matching: A scalable approach to density and score estimation. Sliced score matching: A scalable approach to density and score
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Source Content: Source: From: Index: Suspected Sentence: Source Content:	Generative modeling by estimating gradients of the data distribution. https://arxiv.org/pdf/1910.07762 Internet 809 Sliced score matching: A scalable approach to density and score estimation. Sliced score matching: A scalable approach to density and score estimation. https://arxiv.org/pdf/1910.07762
Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	Generative modeling by estimating gradients of the data distribution. https://arxiv.org/pdf/1910.07762 Internet 809 Sliced score matching: A scalable approach to density and score estimation. Sliced score matching: A scalable approach to density and score estimation. https://arxiv.org/pdf/1910.07762 Internet
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Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	Generative modeling by estimating gradients of the data distribution. https://arxiv.org/pdf/1910.07762 Internet 809 Sliced score matching: A scalable approach to density and score estimation. Sliced score matching: A scalable approach to density and score estimation. https://arxiv.org/pdf/1910.07762 Internet 810 A connection between score matching and denoising autoencoders. Another interesting property of denoising score matching was
Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source: S	Generative modeling by estimating gradients of the data distribution. https://arxiv.org/pdf/1910.07762 Internet 809 Sliced score matching: A scalable approach to density and score estimation. Sliced score matching: A scalable approach to density and score estimation. https://arxiv.org/pdf/1910.07762 Internet 810 A connection between score matching and denoising autoencoders. Another interesting property of denoising score matching was suggested in the denoising autoencoder literature (Vincent et al.
Source Content: Source: From: Index: Suspected Sentence: Source Content: Index: Source: From: Index: Suspected Sentence: Source: Source Content:	Generative modeling by estimating gradients of the data distribution. https://arxiv.org/pdf/1910.07762 Internet 809 Sliced score matching: A scalable approach to density and score estimation. Sliced score matching: A scalable approach to density and score estimation. https://arxiv.org/pdf/1910.07762 Internet 810 A connection between score matching and denoising autoencoders. Another interesting property of denoising score matching was suggested in the denoising autoencoder literature (Vincent et al. https://arxiv.org/pdf/1910.07762
Source Content: Source: From: Index: Suspected Sentence: Source Content: Index: Source: From: Index: Suspected Sentence: Source: Source Content:	Generative modeling by estimating gradients of the data distribution. https://arxiv.org/pdf/1910.07762 Internet 809 Sliced score matching: A scalable approach to density and score estimation. Sliced score matching: A scalable approach to density and score estimation. https://arxiv.org/pdf/1910.07762 Internet 810 A connection between score matching and denoising autoencoders. Another interesting property of denoising score matching was suggested in the denoising autoencoder literature (Vincent et al. https://arxiv.org/pdf/1910.07762

Source Content:	A connection between score matching and denoising autoencoders.
Source:	https://arxiv.org/pdf/1910.07762
From:	Internet
Index:	812
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In Proceedings of the 34th International Conference on Machine Learning-Volume 70, pages 1352–1361.
Source:	https://arxiv.org/pdf/1910.07762
From:	Internet
Index:	813
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In Proceedings of the 28th international conference on machine learning (ICML-11), pages 1105– 1112, 2011.
Source:	https://arxiv.org/pdf/1910.07762
From:	Internet
Index:	814
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In Proceedings of the 25th international conference on Machine learning, pages 872–879.
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From:	Internet
Index:	815
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In Proceedings of the 25th international conference on Machine learning, pages 1064–1071.
Source:	https://arxiv.org/pdf/1910.07762
From:	Internet
Index:	816
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In Proceedings of the 28th international conference on machine learning (ICML-11), pages 681–688, 2011.
Source:	https://arxiv.org/pdf/1910.07762
From:	Internet

Index:	817
Suspected Sentence:	For denoising autoencoders as variant of score-matching estimation, Block et al.
Source Content:	Keywords: autoencoder, energy based models, score matching, denoising, density estimation.
Source:	https://www.iro.umontreal.ca/~vincentp/Publications/smdae_techreport.pdf
From:	Internet
Index:	818
Suspected Sentence:	Estimation of non-normalized statistical models by score matching.
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Source:	https://www.iro.umontreal.ca/~vincentp/Publications/smdae_techreport.pdf
From:	Internet
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Source:	https://www.iro.umontreal.ca/~vincentp/Publications/smdae_techreport.pdf
From:	Internet
From:	Internet
From: Index:	820
Index:	820
Index: Suspected Sentence:	820 A connection between score matching and denoising autoencoders. Then, in section 4, we connect the denoising autoencoder objective
Index: Suspected Sentence: Source Content:	820 A connection between score matching and denoising autoencoders. Then, in section 4, we connect the denoising autoencoder objective to score matching. https://www.iro.umontreal.ca/~vincentp/Publications/smdae_techrepo
Index: Suspected Sentence: Source Content: Source:	820 A connection between score matching and denoising autoencoders. Then, in section 4, we connect the denoising autoencoder objective to score matching. https://www.iro.umontreal.ca/~vincentp/Publications/smdae_techreport.pdf
Index: Suspected Sentence: Source Content: Source:	820 A connection between score matching and denoising autoencoders. Then, in section 4, we connect the denoising autoencoder objective to score matching. https://www.iro.umontreal.ca/~vincentp/Publications/smdae_techreport.pdf
Index: Suspected Sentence: Source Content: Source: From:	A connection between score matching and denoising autoencoders. Then, in section 4, we connect the denoising autoencoder objective to score matching. https://www.iro.umontreal.ca/~vincentp/Publications/smdae_techreport.pdf Internet
Index: Suspected Sentence: Source Content: Source: From:	A connection between score matching and denoising autoencoders. Then, in section 4, we connect the denoising autoencoder objective to score matching. https://www.iro.umontreal.ca/~vincentp/Publications/smdae_techreport.pdf Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	820 A connection between score matching and denoising autoencoders. Then, in section 4, we connect the denoising autoencoder objective to score matching. https://www.iro.umontreal.ca/~vincentp/Publications/smdae_techreport.pdf Internet 821 A connection between score matching and denoising autoencoders. Now this alternate objective, inspired by denoising autoencoders, is
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	820 A connection between score matching and denoising autoencoders. Then, in section 4, we connect the denoising autoencoder objective to score matching. https://www.iro.umontreal.ca/~vincentp/Publications/smdae_techreport.pdf Internet 821 A connection between score matching and denoising autoencoders. Now this alternate objective, inspired by denoising autoencoders, is equivalent to explicit score matching. https://www.iro.umontreal.ca/~vincentp/Publications/smdae_techrepo
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	A connection between score matching and denoising autoencoders. Then, in section 4, we connect the denoising autoencoder objective to score matching. https://www.iro.umontreal.ca/~vincentp/Publications/smdae_techreport.pdf Internet 821 A connection between score matching and denoising autoencoders. Now this alternate objective, inspired by denoising autoencoders, is equivalent to explicit score matching. https://www.iro.umontreal.ca/~vincentp/Publications/smdae_techreport.pdf
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	A connection between score matching and denoising autoencoders. Then, in section 4, we connect the denoising autoencoder objective to score matching. https://www.iro.umontreal.ca/~vincentp/Publications/smdae_techreport.pdf Internet 821 A connection between score matching and denoising autoencoders. Now this alternate objective, inspired by denoising autoencoders, is equivalent to explicit score matching. https://www.iro.umontreal.ca/~vincentp/Publications/smdae_techreport.pdf
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	A connection between score matching and denoising autoencoders. Then, in section 4, we connect the denoising autoencoder objective to score matching. https://www.iro.umontreal.ca/~vincentp/Publications/smdae_techreport.pdf Internet 821 A connection between score matching and denoising autoencoders. Now this alternate objective, inspired by denoising autoencoders, is equivalent to explicit score matching. https://www.iro.umontreal.ca/~vincentp/Publications/smdae_techreport.pdf Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	A connection between score matching and denoising autoencoders. Then, in section 4, we connect the denoising autoencoder objective to score matching. https://www.iro.umontreal.ca/~vincentp/Publications/smdae_techreport.pdf Internet 821 A connection between score matching and denoising autoencoders. Now this alternate objective, inspired by denoising autoencoders, is equivalent to explicit score matching. https://www.iro.umontreal.ca/~vincentp/Publications/smdae_techreport.pdf Internet
Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: Index: Suspected Sentence: Source: Index: Suspected Sentence:	820 A connection between score matching and denoising autoencoders. Then, in section 4, we connect the denoising autoencoder objective to score matching. https://www.iro.umontreal.ca/~vincentp/Publications/smdae_techreport.pdf Internet 821 A connection between score matching and denoising autoencoders. Now this alternate objective, inspired by denoising autoencoders, is equivalent to explicit score matching. https://www.iro.umontreal.ca/~vincentp/Publications/smdae_techreport.pdf Internet 822 Generative modeling by estimating gradients of the data distribution. Title:Generative Modeling by Estimating Gradients of the Data

110111.	internet
Index	922
Index:	823
Suspected Sentence:	Stabilizing training of generative adversarial networks through regularization.
Source Content:	Title:Stabilizing Training of Generative Adversarial Networks through Regularization
Source:	https://arxiv.org/abs/1705.09367
From:	Internet
Index:	824
Suspected Sentence:	Bone mineral acquisition in healthy asian, hispanic, black, and caucasian youth: a longitudinal study.
Source Content:	Bone mineral acquisition in healthy Asian, Hispanic, black, and Caucasian youth: a longitudinal study
Source:	https://pubmed.ncbi.nlm.nih.gov/10599739/
From:	Internet
Index:	825
Suspected Sentence:	Bone mineral acquisition in healthy asian, hispanic, black, and caucasian youth: a longitudinal study.
Source Content:	Bone mineral acquisition in healthy Asian, Hispanic, black, and Caucasian youth: a longitudinal study
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Index:	826
Suspected Sentence:	Bone mineral acquisition in healthy asian, hispanic, black, and caucasian youth: a longitudinal study.
Source Content:	Ethnic and gender differences in bone mineral acquisition were
	examined in a longitudinal study of 423 healthy Asian, black, Hispanic, and white males and females (aged 9-25 yr).
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From:	Internet
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Index:	827
Suspected Sentence:	Sliced score matching: A scalable approach to density and score estimation.
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Source:	https://github.com/ermongroup/sliced_score_matching/blob/master/R EADME.md
From:	Internet

Internet

Index: 828

From:

Suspected Sentence:	Sliced score matching: A scalable approach to density and score estimation.
Source Content:	This repo contains a PyTorch implementation for the paper Sliced Score Matching: A Scalable Approach to Density and Score Estimation, UAI 2019.
Source:	https://github.com/ermongroup/sliced_score_matching/blob/master/R EADME.md
From:	Internet
Index:	829
Suspected Sentence:	, the gradient of log density function, from a set of samples generated by an unknown distribution is a fundamental task in statistics and machine learning.
Source Content:	, the gradient of log density function, from a set of samples generated by an unknown distribution is a fundamental task in inference and learning of probabilistic models that involve flexible yet intractable densities.
Source:	https://arxiv.org/abs/2005.10099
From:	Internet
Index:	830
Suspected Sentence:	, 2017), and kernel estimators based on Stein's methods (Li and Turner, 2017; Shi et al.
Source Content:	Kernel estimators based on Stein's methods or score matching have shown promise, however their theoretical properties and relationships have not been fully-understood.
Source:	https://arxiv.org/abs/2005.10099
From:	Internet
Index:	831
Suspected Sentence:	(2017) with score estimations based Stein's methods (Li and Turner, 2017; Shi et al.
Source Content:	Kernel estimators based on Stein's methods or score matching have shown promise, however their theoretical properties and relationships have not been fully-understood.
Source:	https://arxiv.org/abs/2005.10099
From:	Internet
Index:	832
Suspected Sentence:	For deep neural networks with differentiable activation functions (e.g.
Source Content:	Abstract: We prove new upper and lower bounds on the VC-dimension of deep neural networks with the ReLU activation function.
Source:	https://arxiv.org/abs/1703.02930

Index: 833

Suspected Sentence:	Almost linear vc dimension bounds for piecewise polynomial networks.
Source Content:	Title:Nearly-tight VC-dimension and pseudodimension bounds for piecewise linear neural networks
Source:	https://arxiv.org/abs/1703.02930
From:	Internet
Index:	834
Suspected Sentence:	Nearly-tight vc-dimension and pseudodimension bounds for piecewise linear neural networks.
Source Content:	Title:Nearly-tight VC-dimension and pseudodimension bounds for piecewise linear neural networks
Source:	https://arxiv.org/abs/1703.02930
From:	Internet
Index:	835
Suspected Sentence:	Neural Network Learning: Theoretical Foundations.
Source Content:	Neural network learning: Theoretical foundations (Vol.
Source:	https://bendai.org/STAT6050/
From:	Internet
Index:	836
Suspected Sentence:	Convergence for score-based generative modeling with polynomial complexity.
Source Content:	Title:Convergence for score-based generative modeling with polynomial complexity
Source:	https://arxiv.org/abs/2206.06227
From:	Internet
Index:	837
Suspected Sentence:	A spectral approach to gradient estimation for implicit distributions.
Source Content:	Title:A Spectral Approach to Gradient Estimation for Implicit Distributions
Source:	https://arxiv.org/abs/1806.02925
From:	Internet
Index:	838
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning, pp.
Source:	https://arxiv.org/pdf/2112.09788
From:	Internet
Index:	839
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.

Source Content:	In International conference on machine learning on
Source Content:	In International conference on machine learning, pp.
Source:	https://arxiv.org/pdf/2112.09788
From:	Internet
Index:	840
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Source Content:	In International Conference on Machine Learning, pp.
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From:	Internet
Index:	841
Suspected Sentence:	Estimation of non-normalized statistical models by score matching.
Source Content:	Estimation of non-normalized statistical models by score matching.
Source:	https://arxiv.org/pdf/2112.09788
From:	Internet
Index:	842
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning, pp.
Source:	https://arxiv.org/pdf/2112.09788
From:	Internet
Index:	843
Index: Suspected Sentence:	843 In International conference on machine learning, pages 276–284.
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Suspected Sentence: Source Content:	In International conference on machine learning, pages 276–284. In International conference on machine learning, pp.
Suspected Sentence: Source Content: Source:	In International conference on machine learning, pages 276–284. In International conference on machine learning, pp. https://arxiv.org/pdf/2112.09788
Suspected Sentence: Source Content: Source:	In International conference on machine learning, pages 276–284. In International conference on machine learning, pp. https://arxiv.org/pdf/2112.09788
Suspected Sentence: Source Content: Source: From:	In International conference on machine learning, pages 276–284. In International conference on machine learning, pp. https://arxiv.org/pdf/2112.09788 Internet
Suspected Sentence: Source Content: Source: From:	In International conference on machine learning, pages 276–284. In International conference on machine learning, pp. https://arxiv.org/pdf/2112.09788 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International conference on machine learning, pages 276–284. In International conference on machine learning, pp. https://arxiv.org/pdf/2112.09788 Internet 844 In International conference on machine learning, pages 276–284.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International conference on machine learning, pages 276–284. In International conference on machine learning, pp. https://arxiv.org/pdf/2112.09788 Internet 844 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pp.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International conference on machine learning, pages 276–284. In International conference on machine learning, pp. https://arxiv.org/pdf/2112.09788 Internet 844 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International conference on machine learning, pages 276–284. In International conference on machine learning, pp. https://arxiv.org/pdf/2112.09788 Internet 844 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International conference on machine learning, pages 276–284. In International conference on machine learning, pp. https://arxiv.org/pdf/2112.09788 Internet 844 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International conference on machine learning, pages 276–284. In International conference on machine learning, pp. https://arxiv.org/pdf/2112.09788 Internet 844 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788 Internet 845 In International Conference on Machine Learning, pages 8599–8608.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source:	In International conference on machine learning, pages 276–284. In International conference on machine learning, pp. https://arxiv.org/pdf/2112.09788 Internet 844 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788 Internet 845 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: Source: Source Content: Source: Source Content: Source: Source Content:	In International conference on machine learning, pages 276–284. In International conference on machine learning, pp. https://arxiv.org/pdf/2112.09788 Internet 844 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788 Internet 845 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source:	In International conference on machine learning, pages 276–284. In International conference on machine learning, pp. https://arxiv.org/pdf/2112.09788 Internet 844 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788 Internet 845 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source: From:	In International conference on machine learning, pages 276–284. In International conference on machine learning, pp. https://arxiv.org/pdf/2112.09788 Internet 844 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788 Internet 845 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: Source: Source Content: Source: Source Content: Source: Source Content:	In International conference on machine learning, pages 276–284. In International conference on machine learning, pp. https://arxiv.org/pdf/2112.09788 Internet 844 In International conference on machine learning, pages 276–284. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788 Internet 845 In International Conference on Machine Learning, pages 8599–8608. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788

In International conference on machine learning, pp.

Source Content:

Course	https://aprils.org/pdf/2442.00700
Source:	https://arxiv.org/pdf/2112.09788
From:	Internet
Index:	847
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning, pp.
Source:	https://arxiv.org/pdf/2112.09788
From:	Internet
Index:	848
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning, pp.
Source:	https://arxiv.org/pdf/2112.09788
From:	Internet
Index:	849
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International conference on machine learning, pp.
Source:	https://arxiv.org/pdf/2112.09788
From:	Internet
Index:	850
	850 In International Conference on Machine Learning, pages 4644–4653.
Index: Suspected Sentence: Source Content:	
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning, pp.
Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788
Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning, pp.
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788 Internet
Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788 Internet 851 Generative modeling by estimating gradients of the data distribution.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788 Internet 851 Generative modeling by estimating gradients of the data distribution. Generative modeling by estimating gradients of the data distribution.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788 Internet 851 Generative modeling by estimating gradients of the data distribution. Generative modeling by estimating gradients of the data distribution. https://arxiv.org/pdf/2112.09788
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788 Internet 851 Generative modeling by estimating gradients of the data distribution. Generative modeling by estimating gradients of the data distribution.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788 Internet 851 Generative modeling by estimating gradients of the data distribution. Generative modeling by estimating gradients of the data distribution. https://arxiv.org/pdf/2112.09788 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788 Internet 851 Generative modeling by estimating gradients of the data distribution. Generative modeling by estimating gradients of the data distribution. https://arxiv.org/pdf/2112.09788 Internet
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788 Internet 851 Generative modeling by estimating gradients of the data distribution. Generative modeling by estimating gradients of the data distribution. https://arxiv.org/pdf/2112.09788 Internet 852 Improved techniques for training score-based generative models.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788 Internet 851 Generative modeling by estimating gradients of the data distribution. Generative modeling by estimating gradients of the data distribution. https://arxiv.org/pdf/2112.09788 Internet 852 Improved techniques for training score-based generative models. Improved techniques for training score-based generative models.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: Source: Source Content: Source: Source Content: Source: Source Content: Source:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788 Internet 851 Generative modeling by estimating gradients of the data distribution. Generative modeling by estimating gradients of the data distribution. https://arxiv.org/pdf/2112.09788 Internet 852 Improved techniques for training score-based generative models. Improved techniques for training score-based generative models. https://arxiv.org/pdf/2112.09788
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788 Internet 851 Generative modeling by estimating gradients of the data distribution. Generative modeling by estimating gradients of the data distribution. https://arxiv.org/pdf/2112.09788 Internet 852 Improved techniques for training score-based generative models. Improved techniques for training score-based generative models.
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: Source: Source Content: Source: Source Content: Source: Source Content: Source:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788 Internet 851 Generative modeling by estimating gradients of the data distribution. Generative modeling by estimating gradients of the data distribution. https://arxiv.org/pdf/2112.09788 Internet 852 Improved techniques for training score-based generative models. Improved techniques for training score-based generative models. https://arxiv.org/pdf/2112.09788
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Source: Source: Source Content: Source: Source Content: Source: Source Content: Source:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788 Internet 851 Generative modeling by estimating gradients of the data distribution. Generative modeling by estimating gradients of the data distribution. https://arxiv.org/pdf/2112.09788 Internet 852 Improved techniques for training score-based generative models. Improved techniques for training score-based generative models. https://arxiv.org/pdf/2112.09788
Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source: From:	In International Conference on Machine Learning, pages 4644–4653. In International Conference on Machine Learning, pp. https://arxiv.org/pdf/2112.09788 Internet 851 Generative modeling by estimating gradients of the data distribution. Generative modeling by estimating gradients of the data distribution. https://arxiv.org/pdf/2112.09788 Internet 852 Improved techniques for training score-based generative models. Improved techniques for training score-based generative models. https://arxiv.org/pdf/2112.09788 Internet

Source Content:	Sliced score matching: A scalable approach to density and score
	estimation.
Source:	https://arxiv.org/pdf/2112.09788
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Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
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Index:	857
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Source Content:	In International conference on machine learning, pp.
Source:	https://arxiv.org/pdf/2112.09788
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Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning, pp.
Source:	https://arxiv.org/pdf/2112.09788
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	, , , , , , , , , , , , , , , , , , ,

Y., Yang, C.

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Source Content:	Deep Generative Learning via Variational Gradient Flow
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Source Content:	Deep Generative Learning via Variational Gradient Flow.
Source:	https://proceedings.mlr.press/v97/gao19b.html
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Index:	862
Suspected Sentence:	Approximating smooth functions by deep neural networks with
ouspected defiterible.	sigmoid activation function.
Source Content:	Title:Better Approximations of High Dimensional Smooth Functions
	by Deep Neural Networks with Rectified Power Units
Source:	https://arxiv.org/abs/1903.05858
From:	Internet
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Index: Suspected Sentence:	863 Better approximations of high dimensional smooth functions by deep neural networks with rectified power units.
	Better approximations of high dimensional smooth functions by deep
Suspected Sentence:	Better approximations of high dimensional smooth functions by deep neural networks with rectified power units. Title:Better Approximations of High Dimensional Smooth Functions
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Suspected Sentence: Source Content: Source:	Better approximations of high dimensional smooth functions by deep neural networks with rectified power units. Title:Better Approximations of High Dimensional Smooth Functions by Deep Neural Networks with Rectified Power Units https://arxiv.org/abs/1903.05858
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Suspected Sentence: Source Content: Source: From:	Better approximations of high dimensional smooth functions by deep neural networks with rectified power units. Title:Better Approximations of High Dimensional Smooth Functions by Deep Neural Networks with Rectified Power Units https://arxiv.org/abs/1903.05858 Internet
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Suspected Sentence: Source Content: Source: From: Index: Suspected Sentence: Source Content:	Better approximations of high dimensional smooth functions by deep neural networks with rectified power units. Title:Better Approximations of High Dimensional Smooth Functions by Deep Neural Networks with Rectified Power Units https://arxiv.org/abs/1903.05858 Internet 864 Better approximations of high dimensional smooth functions by deep neural networks with rectified power units. In this paper, we show that deep networks with rectified power units (RePU) can give better approximations for smooth functions than deep ReLU networks.
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Index:	866
Suspected Sentence:	For deep neural networks with differentiable activation functions (e.g.
Source Content:	Title:Simultaneous approximation of a smooth function and its derivatives by deep neural networks with piecewise-polynomial activations
Source:	https://arxiv.org/abs/2206.09527?context=cs
From:	Internet
Index:	867
Suspected Sentence:	For deep neural networks with differentiable activation functions (e.g.
Source Content:	Abstract: This paper investigates the approximation properties of deep neural networks with piecewise-polynomial activation function
Source:	https://arxiv.org/abs/2206.09527?context=cs
From:	Internet
Index:	868
Suspected Sentence:	ReQU activated deep neural networks simultaneous on smooth function and its derivatives (Shen et al.
Source Content:	Title:Simultaneous approximation of a smooth function and its derivatives by deep neural networks with piecewise-polynomial activations
Source:	https://arxiv.org/abs/2206.09527?context=cs
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Index:	869
Suspected Sentence:	Simultaneous approximation of a smooth function and its derivative by deep neural networks with piecewise-polynomial activations.
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Source Content:	Abstract: This paper investigates the approximation properties of deep neural networks with piecewise-polynomial activation function
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Suspected Sentence:	Simultaneous neural network approximation for smooth functions.
Source Content:	Title:Simultaneous approximation of a smooth function and its derivatives by deep neural networks with piecewise-polynomial activations
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Suspected Sentence:	Approximating smooth functions by deep neural networks with sigmoid activation function.
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Source:	https://arxiv.org/abs/2206.09527?context=cs
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Suspected Sentence:	Optimal approximation of piecewise smooth functions using deep relu neural networks.
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Index:	875
Suspected Sentence:	Deep nonparametric regression on approximately low-dimensional manifolds.
Source Content:	Low-dimensional manifolds have also been proposed as approximate models for nonparametric signal classes such as images of human faces or handwritten digits [7, 28, 43].
Source:	https://inside.mines.edu/~mwakin/papers/randProjManifolds- 19sept2007.pdf
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