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 Export:	85

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**
Suspected Sentence:	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
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:	9
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In Proceedings of the 35th International Conference on Machine Learning, ICML.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet

Index:	10
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:	**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**
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).
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.

Source:	https://arxiv.org/pdf/2209.00796
From:	Internet

Index:	**18**
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:	**19**
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:	**20**
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:	**21**
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:	**22**
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:	**23**
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
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:	**24**
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.

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 2093–2101.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet

Index:	26
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:	27
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:	28
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:	29
Suspected Sentence:	Cascaded diffusion models for high fidelity image generation.
Source Content:	Cascaded Diffusion Models (CDM) [83] consists of cascaded multiple diffusion models which generate images of gradually increasing resolution.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet

Index:	30
Suspected Sentence:	Cascaded diffusion models for high fidelity image generation.
Source Content:	Cascaded Diffusion Models for High Fidelity Image Generation.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet

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

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**
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In Proceedings of the 28th international conference on machine learning (ICML-11).
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet

Index:	**42**
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:	**43**
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:	**44**
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:	**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.
Source Content:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet

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:	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:	**64**
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:	**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.
Source Content:	In Proceedings of the 28th international conference on machine learning (ICML-11).
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From:	Internet

Index:	**69**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning.
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From:	Internet

Index:	**70**
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:	**71**
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:	**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 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
From:	Internet

Index:	**75**
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:	**76**
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:	**77**
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:	**78**
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:	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**
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:	**96**
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:	**97**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
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:	**98**
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:	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

Index:	102
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:	103
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
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:	104
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In Proceedings of the 25th international conference on Machine learning.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet

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**
Suspected Sentence:	Generative modeling by estimating gradients of the data distribution.
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:	**110**
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/2209.00796
From:	Internet

Index:	**111**
Suspected Sentence:	Improved techniques for training score-based generative models.
Source Content:	Training and sampling are decoupled in score-based generative models.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet

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:	https://arxiv.org/pdf/2209.00796
From:	Internet

Index:	**116**
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/2209.00796
From:	Internet

Index:	**117**
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:	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
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In Proceedings of the 35th International Conference on Machine Learning, ICML.
Source:	https://arxiv.org/pdf/2209.00796
From:	Internet

Index:	122
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:	123
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:	**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

Index:	**128**
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:	**129**
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
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:	**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**
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:	**134**
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:	**135**
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
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:	**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**
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:	**140**
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:	**141**
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:	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
From:	Internet

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.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf

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

Index:	**163**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning, pp.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet

Index:	**164**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning, pp.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet

Index:	**165**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning, pp.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet

Index:	**166**
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:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet

Index:	**167**
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

Index:	**170**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning, pp.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet

Index:	**171**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning, pp.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet

Index:	**172**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning, pp.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
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

Index:	**177**
Suspected Sentence:	[54] Strathmann, H., Sejdinovic, D., Livingstone, S., Szabo, Z., and Gretton, A.
Source Content:	Strathmann, H., Sejdinovic, D., Livingstone, S., Szabo, Z., and Gretton, A.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet

Index:	**178**
Suspected Sentence:	Gradientfree hamiltonian monte carlo with efficient kernel exponential families.
Source Content:	Gradient-free hamiltonian monte carlo with efficient kernel exponential families.
Source:	http://proceedings.mlr.press/v119/zhou20c/zhou20c.pdf
From:	Internet

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 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**
Suspected Sentence:	For deep neural networks with differentiable activation functions (e.g.
Source Content:	Title:Nonparametric regression using deep neural networks with ReLU activation function
Source:	https://arxiv.org/abs/1708.06633
From:	Internet

Index:	**195**
Suspected Sentence:	Nonparametric regression using deep neural networks with ReLU 13 activation function (with discussion).
Source Content:	Title:Nonparametric regression using deep neural networks with ReLU activation function
Source:	https://arxiv.org/abs/1708.06633
From:	Internet

Index:	**196**
Suspected Sentence:	Robust nonparametric regression with deep neural networks.
Source Content:	Title:Nonparametric regression using deep neural networks with ReLU activation function
Source:	https://arxiv.org/abs/1708.06633
From:	Internet

Index:	**197**
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/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 have shown promise, however their theoretical properties and relationships have not been fully-understood.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet

Index:	**200**
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:	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 al.
Source Content:	, 2015), learning implicit models (Warde-Farley & Bengio, 2016), and solving intractability in approximate inference algorithms (Sun et al.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet

Index:	**202**
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:	https://arxiv.org/pdf/2005.10099
From:	Internet

Index:	**203**
Suspected Sentence:	, 2019), estimating gradients of mutual information for representation learning (Wen et al.
Source Content:	Mutual information gradient estimation for representation learning.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet

Index:	**204**
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/pdf/2005.10099
From:	Internet

Index:	**205**
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:	https://arxiv.org/pdf/2005.10099
From:	Internet

Index:	**206**
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:	https://arxiv.org/pdf/2005.10099
From:	Internet

Index:	**207**
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:	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 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

Index:	214
Suspected Sentence:	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**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
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:	**219**
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:	**220**
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:	**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 Gretton, A.
Source Content:	Strathmann, H., Sejdinovic, D., Livingstone, S., Szabo, Z., and Gretton, A.
Source:	https://arxiv.org/pdf/2005.10099
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:	Improving generative adversarial networks with denoising feature matching.
Source:	https://arxiv.org/pdf/2005.10099
From:	Internet

Index:	**239**
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:	https://arxiv.org/pdf/2005.10099
From:	Internet

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**
Suspected Sentence:	Error bounds for approximations with deep relu networks.

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**
Suspected Sentence:	, 2019), estimating gradients of mutual information for representation learning (Wen et al.
Source Content:	To this end, we propose the Mutual Information Gradient Estimator (MIGE) for representation learning based on the score estimation of implicit distributions.

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 models 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
From:	Internet

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/bc7316929fe1545bf0b98d114ee3ecb8-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/bc7316929fe1545bf0b98d114ee3ecb8-Paper.pdf
From:	Internet

Index:	**266**
Suspected Sentence:	Almost linear vc dimension bounds for piecewise polynomial networks.
Source Content:	Almost Linear VC Dimension Boundsfor Piecewise Polynomial Networks 193 Fix these m points, and consider a partition {SI, S2, ...
Source:	https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0b98d114ee3ecb8-Paper.pdf
From:	Internet

Index:	**267**
Suspected Sentence:	Almost linear vc dimension bounds for piecewise polynomial networks.
Source Content:	Almost Linear VC Dimension Boundsfor Piecewise Polynomial Networks 195 Theorem 3.1 Suppose f : R -+ R has the following properties: 1.
Source:	https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0b98d114ee3ecb8-Paper.pdf
From:	Internet

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/bc7316929fe1545bf0b98d114ee3ecb8-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/bc7316929fe1545bf0b98d114ee3ecb8-Paper.pdf
From:	Internet

Index:	**271**
Suspected Sentence:	Simultaneous neural network approximation for smooth functions.
Source Content:	On the Near Optimality of the Stochastic Approximation of Smooth Functions by Neural Networks.
Source:	https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0b98d114ee3ecb8-Paper.pdf
From:	Internet

Index:	**272**
Suspected Sentence:	Deep network approximation for smooth functions.
Source Content:	On the Near Optimality of the Stochastic Approximation of Smooth Functions by Neural Networks.
Source:	https://proceedings.neurips.cc/paper/1998/file/bc7316929fe1545bf0b98d114ee3ecb8-Paper.pdf
From:	Internet

Index:	**273**
Suspected Sentence:	Nearly-tight vc-dimension and pseudodimension bounds for piecewise linear neural networks.

Source Content:	Nearly-tight vcdimension and pseudodimension bounds for piecewise linear neural networks.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet

Index:	**274**
Suspected Sentence:	In Mathematical and Scientific Machine Learning, pages 336–368.
Source Content:	In Mathematical and Scientific Machine Learning, pages 144–164.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet

Index:	**275**
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
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 2093–2101.
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 2093–2101.
Source Content:	In International Conference on Machine Learning, pages 3734–3744.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet

Index:	**278**
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning, pages 1832–1841.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet

Index:	**279**
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
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:	**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.
Source:	https://arxiv.org/pdf/2209.13083
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**
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning, pages 254–263.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet

Index:	**284**
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning, 2018.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet

Index:	**285**
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning, pages 3734–3744.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet

Index:	**286**
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning, pages 1832–1841.
Source:	https://arxiv.org/pdf/2209.13083

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

Index:	**290**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning, 2018.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet

Index:	**291**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning, pages 3734–3744.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet

Index:	**292**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning, pages 1832–1841.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet

Index:	**293**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
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:	**294**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International conference on machine learning, pages 7354–7363.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet

Index:	**295**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning, pages 254–263.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet

Index:	**296**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
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 4644–4653.
Source Content:	In International Conference on Machine Learning, pages 3734–3744.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet

Index:	**298**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning, pages 1832–1841.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet

Index:	**299**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
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:	**300**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International conference on machine learning, pages 7354–7363.

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

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

Index:	304
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning, pages 1832–1841.
Source:	https://arxiv.org/pdf/2209.13083
From:	Internet

Index:	305
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
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:	306
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International conference on machine learning, pages 7354–7363.
Source:	https://arxiv.org/pdf/2209.13083

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**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
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:	**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 relu networks.
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:	https://openreview.net/pdf?id=S1X7nhsxl
From:	Internet

Index:	**317**
Suspected Sentence:	Bounding the vapnik-chervonenkis dimension of concept classes parameterized by real numbers.
Source Content:	Search SpringerLink [ ] Search Bounding the Vapnik-Chervonenkis dimension of concept classes parameterized by real numbers Download PDF Download PDF
Source:	https://link.springer.com/article/10.1007/BF00993408
From:	Internet

Index:	**318**
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:	**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, Neural Networks, 94 (2017), pp.
Source:	https://arxiv.org/pdf/2103.00502
From:	Internet

Index:	**331**
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
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 8599–8608.
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 4644–4653.
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:	**335**
Suspected Sentence:	Generative modeling by estimating gradients of the data distribution.
Source Content:	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 parametrized probability distribution) 254 p(z; w) from data [13, 58, 152].
Source:	https://arxiv.org/pdf/1805.05052
From:	Internet

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

Index:	**339**
Suspected Sentence:	For deep neural networks with differentiable activation functions (e.g.
Source Content:	The ReLU is so far the most popular activation function for deep neural networks, and it is the positive part of its argument.
Source:	https://arxiv.org/pdf/1811.09054
From:	Internet

Index:	**340**
Suspected Sentence:	Simultaneous neural network approximation for smooth functions.
Source Content:	Neural networks for optimal approximation of smooth and analytic functions.
Source:	https://arxiv.org/pdf/1811.09054
From:	Internet

Index:	**341**
Suspected Sentence:	Deep network approximation for smooth functions.
Source Content:	Neural networks for optimal approximation of smooth and analytic functions.
Source:	https://arxiv.org/pdf/1811.09054
From:	Internet

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
From:	Internet

Index:	**346**
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In Proceedings of the 25th international conference on Machine learning (pp.
Source:	https://arxiv.org/pdf/2202.05924
From:	Internet

Index:	**347**
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:	**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.
Source Content:	In Proceedings of the 25th international conference on Machine learning (pp.
Source:	https://arxiv.org/pdf/2202.05924
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.
Source Content:	Abstract: In this paper, we study the properties of nonparametric least squares regression using deep neural networks.
Source:	https://arxiv.org/abs/2104.06708
From:	Internet

Index:	**364**
Suspected Sentence:	Nonparametric regression on lowdimensional manifolds using deep relu networks: Function approximation and statistical recovery.
Source Content:	Title:Nonparametric Regression on Low-Dimensional Manifolds using Deep ReLU Networks : Function Approximation and Statistical Recovery
Source:	https://arxiv.org/abs/1908.01842
From:	Internet

Index:	**365**
Suspected Sentence:	Deep nonparametric regression on approximately low-dimensional manifolds.
Source Content:	Title:Nonparametric Regression on Low-Dimensional Manifolds using Deep ReLU Networks : Function Approximation and Statistical Recovery

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 Content:	Wasserstein GANs offer much needed stability in training Generative Adversarial Networks.

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

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 β > 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**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.

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

Index:	**405**
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/2104.06708
From:	Internet

Index:	**406**
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/2104.06708
From:	Internet

Index:	**407**
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/2104.06708
From:	Internet

Index:	**408**
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 (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 networks.
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 squares regression 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 neurons.
Source Content:	Deep network approximation characterized by number of neurons.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet

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.
Source Content:	In International Conference on Machine Learning 242–252.
Source:	https://arxiv.org/pdf/2104.06708
From:	Internet

Index:	**420**
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning 1675–1685.
Source:	https://arxiv.org/pdf/2104.06708

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**
Suspected Sentence:	Estimating a smooth monotone regression function.
Source Content:	June, 1991 Estimating a Smooth Monotone Regression Function Enno Mammen Ann.
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:	**425**
Suspected Sentence:	Estimating a smooth monotone regression function.
Source Content:	The problem of estimating a smooth monotone regression function \$m\$ will be studied.
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:	**426**
Suspected Sentence:	Estimating a smooth monotone regression function.
Source Content:	"Estimating a Smooth Monotone Regression Function."

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-AOS1747.full
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 nonparametric regression."
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-AOS1747.full
From:	Internet

Index:	**429**
Suspected Sentence:	Simultaneous neural network approximation for smooth functions.
Source Content:	Title:Simultaneous Neural Network Approximation for Smooth Functions
Source:	https://arxiv.org/abs/2109.00161
From:	Internet

Index:	**430**
Suspected Sentence:	Deep network approximation for smooth functions.
Source Content:	Title:Simultaneous Neural Network Approximation for Smooth Functions
Source:	https://arxiv.org/abs/2109.00161
From:	Internet

Index:	**431**
Suspected Sentence:	Estimation of non-normalized statistical models by score matching.
Source Content:	Abstract: Score matching is a popular method for estimating unnormalized statistical models.
Source:	https://arxiv.org/abs/1905.07088
From:	Internet

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 and 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.
Source:	https://arxiv.org/abs/1610.01145
From:	Internet

Index:	**435**
Suspected Sentence:	Error bounds for approximations with deep relu networks.
Source Content:	Title:Error bounds for approximations with deep ReLU networks
Source:	https://arxiv.org/abs/1610.01145
From:	Internet

Index:	**436**
Suspected Sentence:	For deep neural networks with differentiable activation functions (e.g.
Source Content:	Title:Approximating smooth functions by deep neural networks with sigmoid activation function
Source:	https://arxiv.org/abs/2010.04596
From:	Internet

Index:	**437**
Suspected Sentence:	For deep neural networks with differentiable activation functions (e.g.
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:	**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
From:	Internet

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:	https://arxiv.org/pdf/2202.02890
From:	Internet

Index:	**456**
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/2202.02890
From:	Internet

Index:	**457**
Suspected Sentence:	Simultaneous neural network approximation for smooth functions.

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

Index:	**464**
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 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 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
From:	Internet

Index:	**471**
Suspected Sentence:	Deep network approximation for smooth functions.
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.
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 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 Learning Representations, pages 1–14.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet

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.
Source Content:	International Conference on Learning Representations, pages 1–17.

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

Index:	**488**
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:	**489**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	International Conference on Learning Representations, pages 1–14.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet

Index:	**490**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	International Conference on Learning Representations, pages 1–16.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet

Index:	**491**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	International Conference on Machine Learning, pages 1278–1286.
Source:	https://arxiv.org/pdf/2202.02890

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.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet

Index:	**497**
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	International Conference on Learning Representations, pages 1–10.
Source:	https://arxiv.org/pdf/2202.02890
From:	Internet

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 2093–2101.
Source Content:	In International Conference on Machine Learning, pages 1068–1077.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet

Index:	**506**
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
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 2093–2101.
Source Content:	In International Conference on Machine Learning, pages 1362–1371.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet

Index:	**508**
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In Asian Conference on Machine Learning, pages 174–189, 2016.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet

Index:	**509**
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning, pages 1645–1654.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet

Index:	**510**
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
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:	**511**
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.

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:	https://arxiv.org/pdf/2011.06801
From:	Internet

Index:	515
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning, pages 1068–1077.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet

Index:	516
Suspected Sentence:	In International conference on machine learning, pages 276–284.
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:	517
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning, pages 1362–1371.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet

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

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

Index:	528
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning, pages 1362–1371.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet

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
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning, pages 1645–1654.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet

Index:	531
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.

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:	**532**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning, pages 4352–4362, 2019.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet

Index:	**533**
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, pages 454–461.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet

Index:	**534**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning, pages 3060–3070, 2019.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet

Index:	**535**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International conference on machine learning, pages 3918–3926.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet

Index:	**536**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning, pages 1068–1077.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet

Index:	**537**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
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:	**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 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 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 Asian Conference on Machine Learning, pages 174–189, 2016.
Source:	https://arxiv.org/pdf/2011.06801
From:	Internet

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**
Suspected Sentence:	Neural Network Learning: Theoretical Foundations.
Source Content:	Neural Network Learning: Theoretical Foundations.
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet

Index:	**560**
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/2107.04907
From:	Internet

Index:	**561**
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/2107.04907
From:	Internet

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
From:	Internet

Index:	**565**
Suspected Sentence:	Deep network approximation for smooth functions.
Source Content:	In Section 6 we present a result on the approximation error of composite functions using deep neural networks.
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet

Index:	**566**
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/2107.04907
From:	Internet

Index:	**567**
Suspected Sentence:	Deep network approximation for smooth functions.
Source Content:	Deep relu network approximation of functions on a manifold.
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet

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**
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 regression function.
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet

Index:	580
Suspected Sentence:	Robust nonparametric regression with deep neural networks.
Source Content:	There are several recent important studies on least squares nonparametric regression using deep neural networks.
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet

Index:	581
Suspected Sentence:	Robust nonparametric regression with deep neural networks.
Source Content:	In particular, much work has been done to study the properties of the least squares nonparametric regression estimators using deep neural networks.
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet

Index:	582
Suspected Sentence:	Robust nonparametric regression with deep neural networks.
Source Content:	In this work, we study the convergence properties of nonparametric quantile regression using deep neural networks.
Source:	https://arxiv.org/pdf/2107.04907
From:	Internet

Index:	583
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/2107.04907
From:	Internet

Index:	584
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/2107.04907
From:	Internet

Index:	585
Suspected Sentence:	Deep network approximation characterized by number of neurons.
Source Content:	Deep network 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**
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/2107.04907
From:	Internet

Index:	**590**
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
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:	**591**
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
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:	**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:	In International conference on machine learning, pages 276–284.
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:	**597**
Suspected Sentence:	In International conference on machine learning, pages 276–284.
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:	**598**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.

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).
Source:	https://www.nature.com/articles/s41524-022-00734-6
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

Index:	602
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
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:	603
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
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:	604
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
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:	**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 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

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**
Suspected Sentence:	Optimal approximation of piecewise smooth functions using deep relu neural networks.
Source Content:	Title:Optimal approximation of piecewise smooth functions using deep ReLU neural networks
Source:	https://arxiv.org/abs/1709.05289
From:	Internet

Index:	**615**
Suspected Sentence:	Optimal approximation of piecewise smooth functions using deep relu neural networks.
Source Content:	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.
Source:	https://arxiv.org/abs/1709.05289
From:	Internet

Index:	**616**
Suspected Sentence:	Deep relu network approximation of functions on a manifold.

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.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	**626**
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In Proceedings of the 36th International Conference on Machine Learning (09–15 Jun 2019), Chaudhuri K., Salakhutdinov R., (Eds.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	**627**
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:	**628**
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning (ICML) (2021).
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	**629**
Suspected Sentence:	In International conference on machine learning, pages 276–284.

Source Content:	In International Conference on Machine Learning (ICML) (2021), PMLR.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	630
Suspected Sentence:	In International conference on machine learning, pages 276–284.
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:	631
Suspected Sentence:	In International conference on machine learning, pages 276–284.
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:	632
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning (2017), PMLR, pp.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	633
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning (ICML) (2021), PMLR.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	634
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In Proceedings of the 36th International Conference on Machine Learning (09–15 Jun 2019), Chaudhuri K., Salakhutdinov R., (Eds.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	635
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning (ICML) (2021), PMLR.
Source:	https://3dvar.com/Xie2021Neural.pdf

From:	Internet

Index:	**636**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning (ICML) (2021).
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	**637**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning (ICML) (2021), PMLR.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	**638**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
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:	**639**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
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:	**640**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning (2017), PMLR, pp.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	**641**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning (ICML) (2021), PMLR.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	**642**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.

Source Content:	In Proceedings of the 36th International Conference on Machine Learning (09–15 Jun 2019), Chaudhuri K., Salakhutdinov R., (Eds.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	**643**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning (ICML) (2021), PMLR.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	**644**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning (ICML) (2021).
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	**645**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning (ICML) (2021), PMLR.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	**646**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
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:	**647**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
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:	**648**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning (2017), PMLR, pp.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	**649**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning (ICML) (2021), PMLR.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	**650**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In Proceedings of the 36th International Conference on Machine Learning (09–15 Jun 2019), Chaudhuri K., Salakhutdinov R., (Eds.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	**651**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning (ICML) (2021), PMLR.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	**652**
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning (ICML) (2021).
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	**653**
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning (ICML) (2021), PMLR.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	**654**
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
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:	**655**
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 (2017), ICML’17, JMLR.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	**656**
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning (2017), PMLR, pp.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	**657**
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning (ICML) (2021), PMLR.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	**658**
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In Proceedings of the 36th International Conference on Machine Learning (09–15 Jun 2019), Chaudhuri K., Salakhutdinov R., (Eds.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	**659**
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning (ICML) (2021), PMLR.
Source:	https://3dvar.com/Xie2021Neural.pdf
From:	Internet

Index:	**660**
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning, 2016.
Source:	https://web.stanford.edu/~swager/stats361.pdf
From:	Internet

Index:	**661**
Suspected Sentence:	In International Conference on Machine Learning, pages 2093–2101.
Source Content:	In International Conference on Machine Learning, pages 2139–2148, 2016.
Source:	https://web.stanford.edu/~swager/stats361.pdf
From:	Internet

Index:	**662**
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning, 2016.
Source:	https://web.stanford.edu/~swager/stats361.pdf
From:	Internet

Index:	**663**
Suspected Sentence:	In International conference on machine learning, pages 276–284.
Source Content:	In International Conference on Machine Learning, pages 2139–2148, 2016.
Source:	https://web.stanford.edu/~swager/stats361.pdf
From:	Internet

Index:	**664**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning, 2016.
Source:	https://web.stanford.edu/~swager/stats361.pdf
From:	Internet

Index:	**665**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In International Conference on Machine Learning, pages 2139–2148, 2016.
Source:	https://web.stanford.edu/~swager/stats361.pdf
From:	Internet

Index:	**666**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning, 2016.
Source:	https://web.stanford.edu/~swager/stats361.pdf
From:	Internet

Index:	**667**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
Source Content:	In International Conference on Machine Learning, pages 2139–2148, 2016.

Source:	https://web.stanford.edu/~swager/stats361.pdf
From:	Internet

Index:	668
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning, 2016.
Source:	https://web.stanford.edu/~swager/stats361.pdf
From:	Internet

Index:	669
Suspected Sentence:	In International Conference on Machine Learning, pages 11513–11522.
Source Content:	In International Conference on Machine Learning, pages 2139–2148, 2016.
Source:	https://web.stanford.edu/~swager/stats361.pdf
From:	Internet

Index:	670
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/1901.00137
From:	Internet

Index:	671
Suspected Sentence:	Neural Network Learning: Theoretical Foundations.
Source Content:	Neural network learning: Theoretical foundations.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet

Index:	672
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/1901.00137
From:	Internet

Index:	673
Suspected Sentence:	Almost linear vc dimension bounds for piecewise polynomial networks.
Source Content:	Almost linear VC dimension bounds for piecewise polynomial networks.
Source:	https://arxiv.org/pdf/1901.00137

From:	Internet

Index:	**674**
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/1901.00137
From:	Internet

Index:	**675**
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/1901.00137
From:	Internet

Index:	**676**
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:	**677**
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:	**678**
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:	**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**
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:	**681**
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:	**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**
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:	**685**
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:	**686**
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:	**687**
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:	**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**
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:	**693**
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:	**694**
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:	**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**
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:	**707**
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:	**708**
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:	**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

Index:	**733**
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:	**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.
Source Content:	In International Conference on Machine Learning.

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:	In International Conference on Machine Learning.
Source:	https://arxiv.org/pdf/1901.00137
From:	Internet

Index:	**761**
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:	**762**
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:	**763**
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 models.
Source Content:	Title:Improved Techniques for Training Score-Based Generative Models
Source:	https://arxiv.org/abs/2006.09011
From:	Internet

Index:	**765**
Suspected Sentence:	Improved techniques for training score-based generative models.
Source Content:	With these improvements, we can effortlessly scale score-based generative models to images with unprecedented resolutions ranging from 64x64 to 256x256.
Source:	https://arxiv.org/abs/2006.09011
From:	Internet

Index:	**766**
Suspected Sentence:	Approximation of smoothness classes by deep rectifier networks.
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
Source:	https://arxiv.org/abs/2105.05233
From:	Internet

Index:	**769**
Suspected Sentence:	Deep network approximation for smooth functions.

Source Content:	Title:Deep ReLU network approximation of functions on a manifold
Source:	https://arxiv.org/abs/1908.00695
From:	Internet

Index:	**770**
Suspected Sentence:	Deep relu network approximation of functions on a manifold.
Source Content:	Title:Deep ReLU network approximation of functions on a manifold
Source:	https://arxiv.org/abs/1908.00695
From:	Internet

Index:	**771**
Suspected Sentence:	Besides, 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.
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.
Source:	https://blog.vsoftconsulting.com/blog/top-usecases-of-computer-vision-in-manufacturing
From:	Internet

Index:	**772**
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:	http://dpkingma.com/files/msc-thesis-final.pdf
From:	Internet

Index:	**773**
Suspected Sentence:	Estimation of non-normalized statistical models by score matching.
Source Content:	Recently, Score Matching [15] (SM) was introduced as a new estimation method for statistical models.
Source:	http://dpkingma.com/files/msc-thesis-final.pdf
From:	Internet

Index:	**774**
Suspected Sentence:	Estimation of non-normalized statistical models by score matching.
Source Content:	3.4 Introduction to score backpropagation In section 2.3 we explained Score Matching (SM) estimation, an estimaton method that also works for unnormalized statistical models E(x; w) = − log q(x; w).
Source:	http://dpkingma.com/files/msc-thesis-final.pdf
From:	Internet

Index:	**775**
Suspected Sentence:	Estimation of non-normalized statistical models by score matching.
Source Content:	Score Matching (SM) (see section 2.3) is a novel estimation method for learning unnormalized statistical models, and is an alternative to CD estimation.
Source:	http://dpkingma.com/files/msc-thesis-final.pdf
From:	Internet

Index:	**776**
Suspected Sentence:	Estimation of non-normalized statistical models by score matching.
Source Content:	Estimation of non-normalized statistical models by score matching.
Source:	http://dpkingma.com/files/msc-thesis-final.pdf
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.
Source:	http://dpkingma.com/files/msc-thesis-final.pdf
From:	Internet

Index:	**778**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
Source Content:	In Proceedings of the 25th international conference on Machine learning, pages 1064–1071.
Source:	http://dpkingma.com/files/msc-thesis-final.pdf
From:	Internet

Index:	**779**
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:	http://dpkingma.com/files/msc-thesis-final.pdf
From:	Internet

Index:	**780**
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:	http://dpkingma.com/files/msc-thesis-final.pdf
From:	Internet

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:	https://www.jmlr.org/papers/volume6/hyvarinen05a/hyvarinen05a.pdf
From:	Internet

Index:	**786**
Suspected Sentence:	Does the denoising score matching improve the performance for high-dimensional data?

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.
Source:	https://arxiv.org/pdf/1910.07762
From:	Internet

Index:	**792**
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/1910.07762
From:	Internet

Index:	**793**
Suspected Sentence:	In International conference on machine learning, pages 276–284.
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:	**794**
Suspected Sentence:	In International conference on machine learning, pages 276–284.
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 276–284.
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 276–284.
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**
Suspected Sentence:	In International conference on machine learning, pages 276–284.
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:	**798**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
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:	**799**
Suspected Sentence:	In International Conference on Machine Learning, pages 8599–8608.
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 8599–8608.
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 8599–8608.
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 8599–8608.
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**
Suspected Sentence:	In International Conference on Machine Learning, pages 4644–4653.
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 4644–4653.
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:	**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**
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/1910.07762
From:	Internet

Index:	**809**
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/1910.07762
From:	Internet

Index:	**810**
Suspected Sentence:	A connection between score matching and denoising autoencoders.
Source Content:	Another interesting property of denoising score matching was suggested in the denoising autoencoder literature (Vincent et al.
Source:	https://arxiv.org/pdf/1910.07762
From:	Internet

Index:	**811**
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/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.
Source:	https://arxiv.org/pdf/1910.07762
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.
Source Content:	Estimation of non-normalized statistical models using score matching.
Source:	https://www.iro.umontreal.ca/~vincentp/Publications/smdae_techreport.pdf
From:	Internet

Index:	**819**
Suspected Sentence:	A connection between score matching and denoising autoencoders.
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:	**820**
Suspected Sentence:	A connection between score matching and denoising autoencoders.
Source Content:	Then, in section 4, we connect the denoising autoencoder objective to score matching.
Source:	https://www.iro.umontreal.ca/~vincentp/Publications/smdae_techreport.pdf
From:	Internet

Index:	**821**
Suspected Sentence:	A connection between score matching and denoising autoencoders.
Source Content:	Now this alternate objective, inspired by denoising autoencoders, is equivalent to explicit score matching.
Source:	https://www.iro.umontreal.ca/~vincentp/Publications/smdae_techreport.pdf
From:	Internet

Index:	**822**
Suspected Sentence:	Generative modeling by estimating gradients of the data distribution.
Source Content:	Title:Generative Modeling by Estimating Gradients of the Data Distribution
Source:	https://arxiv.org/abs/1907.05600

From:	Internet

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
Source:	https://pubmed.ncbi.nlm.nih.gov/10599739/
From:	Internet

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).
Source:	https://pubmed.ncbi.nlm.nih.gov/10599739/
From:	Internet

Index:	**827**
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://github.com/ermongroup/sliced_score_matching/blob/master/README.md
From:	Internet

Index:	**828**

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/README.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
From:	Internet

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, pp.
Source:	https://arxiv.org/pdf/2112.09788
From:	Internet

Index:	840
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:	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
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:	844
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:	845
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:	846
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:	**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**
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:	**851**
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/2112.09788
From:	Internet

Index:	**852**
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/2112.09788
From:	Internet

Index:	**853**
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/2112.09788
From:	Internet

Index:	854
Suspected Sentence:	Score-based generative modeling through stochastic differential equations.
Source Content:	Score-based generative modeling through stochastic differential equations.
Source:	https://arxiv.org/pdf/2112.09788
From:	Internet

Index:	855
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/2112.09788
From:	Internet

Index:	856
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
From:	Internet

Index:	857
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
From:	Internet

Index:	858
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
From:	Internet

Index:	859
Suspected Sentence:	[14] Gao, Y., Jiao, Y., Wang, Y., Wang, Y., Yang, C., and Zhang, S.
Source Content:	Copy to ClipboardDownload APA Gao, Y., Jiao, Y., Wang, Y., Wang, Y., Yang, C.

Source:	https://proceedings.mlr.press/v97/gao19b.html
From:	Internet

Index:	**860**
Suspected Sentence:	Deep generative learning via variational gradient flow.
Source Content:	Deep Generative Learning via Variational Gradient Flow
Source:	https://proceedings.mlr.press/v97/gao19b.html
From:	Internet

Index:	**861**
Suspected Sentence:	Deep generative learning via variational gradient flow.
Source Content:	Deep Generative Learning via Variational Gradient Flow.
Source:	https://proceedings.mlr.press/v97/gao19b.html
From:	Internet

Index:	**862**
Suspected Sentence:	Approximating smooth functions by deep neural networks with 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

Index:	**863**
Suspected Sentence:	Better approximations of high dimensional smooth functions by deep neural networks with rectified power units.
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

Index:	**864**
Suspected Sentence:	Better approximations of high dimensional smooth functions by deep neural networks with rectified power units.
Source Content:	In this paper, we show that deep networks with rectified power units (RePU) can give better approximations for smooth functions than deep ReLU networks.
Source:	https://arxiv.org/abs/1903.05858
From:	Internet

Index:	**865**
Suspected Sentence:	Deep relu network approximation of functions on a manifold.
Source Content:	Some theoretical progress regarding the approximation power of deep ReLU network for functions in Sobolev space and Korobov space have recently been made by [D.

Source:	https://arxiv.org/abs/1903.05858
From:	Internet

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 functions.
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
From:	Internet

Index:	869
Suspected Sentence:	Simultaneous approximation of a smooth function and its derivatives by deep neural networks with piecewise-polynomial activations.
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:	870
Suspected Sentence:	Simultaneous approximation of a smooth function and its derivatives by deep neural networks with piecewise-polynomial activations.
Source Content:	Abstract: This paper investigates the approximation properties of deep neural networks with piecewise-polynomial activation functions.
Source:	https://arxiv.org/abs/2206.09527?context=cs
From:	Internet

Index:	**871**
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
Source:	https://arxiv.org/abs/2206.09527?context=cs
From:	Internet

Index:	**872**
Suspected Sentence:	Approximating smooth functions by deep neural networks with sigmoid activation function.
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:	**873**
Suspected Sentence:	Approximating smooth functions by deep neural networks with sigmoid activation function.
Source Content:	Abstract: This paper investigates the approximation properties of deep neural networks with piecewise-polynomial activation functions.
Source:	https://arxiv.org/abs/2206.09527?context=cs
From:	Internet

Index:	**874**
Suspected Sentence:	Optimal approximation of piecewise smooth functions using deep relu neural networks.
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:	**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
From:	Internet

This report was generated on <2022-10-09 14:06:04>.