André Biedenkapp

Personal Information

Date of birth: 13.07.1992 Nationality: German

Work experience

Position held.....

Machine Learning Lab

Scientific Researcher

Albert-Ludwigs-University Freiburg

Since 10.2017

Past positions.

Machine Learning Lab Student Assistant

Assisting in the implementation of research projects

Albert-Ludwigs-University Freiburg 10.2015 - 09.2017

Chair of Computer Architecture

Student Assistant

Maintenance of the mobile robots for the Hardware-Labcourse

Albert-Ludwigs-University Freiburg 04.2014 - 09.2014

Research Interests

Dynamic Algorithm Configuration

Learning to Learn

Deep Reinforcement Learning

o Automated Machine Learning and Reinforcement Learning

[see, e.g., 1, 5, 6, 11, 12, 15, 16] [see, e.g., 9, 10]

[see, e.g., 13, 23, 31]

[see, e.g., 4, 7, 14, 19]

Education

PhD (Dr. rer. nat.)

Supervised by Prof. Frank Hutter and Prof. Marius Lindauer

Albert-Ludwigs-University Freiburg 2018 - 2022

Thesis: Dynamic Algorithm Configuration by Reinforcement Learning (Grade: Summa Cum Laude)

Summer School In: Lille, France

Reinforcement Learning Summer SCOOL (RLSS'19) July 2019

Topics: Reinforcement Learning and Bandits

Computer Science

Albert-Ludwigs-University Freiburg

Master of Science (M.Sc.), Final Grade: 1.2 Thesis: Per Instance Algorithm Configuration (Grade: 1.0)

Supervisor: Prof. Dr. Frank Hutter

Computer Science Albert-Ludwigs-University Freiburg Bachelor of Science (B.Sc.) 2011 - 2014

Thesis: Data Analysis for the Selection of Recording Channels on Multielectrode-Arrays (Grade: 1.7)

Supervisor: Prof. Dr. Wolfram Burgard

Teaching Experience

Dynamic Algorithm Configuration and Optimization

10.2022 - 02.2023

2014 - 2017

Responsible for setting up the seminar. Jointly held with Prof. Frank Hutter and Dr. Noor Awad

Automated Machine Learning

Lab course

10.2022 - 02.2023

Responsible for setting up the lab course. Jointly held with Prof. Frank Hutter and Rhea Sukthanker Teaching Assistant..... **Automated Machine Learning** (Flipped Classroom) Graduate course 04.2022 - 09.2022Creation and grading of exercises & final project. **Automated Machine Learning** Massive Open Online Course (MOOC) Graduate course Published 04.2021 Creation of coding exercises. Involved in setting up the MOOC **Automated Machine Learning** (Flipped Classroom) Graduate course, Virtual 04.2021 - 09.2021 Creation and grading of exercises & final project. Setting up online teaching through Zoom and GitHub classroom. **Automated Machine Learning** (Flipped Classroom) Graduate course, Virtual 04.2020 - 09.2020Creation and grading of exercises & final project. Setting up online teaching through Zoom and GitHub classroom. **Automated Machine Learning** Graduate course 04.2019 - 09.2019Creation and grading of exercises & final project Machine Learning for Automated Algorithm Design 10.2018 - 03.2019Graduate course Creation and grading of exercises & final project Machine Learning for Automated Algorithm Design Graduate course 10.2017 - 03.2018 Creation and grading of exercises & final project Hardware-Labcourse 04.2014 - 09.2014Undergraduate course Assisting students with practical exercises Student Supervision. **MSc Thesis** Florian Diederichs, Joint supervision with N. Awad 09.2022 - 02.2023 On the Applicability of Offline Reinforcement Learning for Dynamic Algorithm Configuration of Differential Evolution **MSc Thesis** Baohe Zhang, Joint supervision with R. Rajan, Published at AISTATS'21 04.2020 - 10.2020On the Importance of Hyperparameter Optimization in Model-based Reinforcement Learning **MSc Project & Thesis** Gresa Shala, Published at PPSN'20 04.2019 - 05.2020Learning to Optimize CMA-ES **MSc Thesis** Furkan Bozkurt 03.2019 - 11.2019RL-DCBO: Reinforcement Learning Guided Dynamic Control for Bayesian Optimization MSc Thesis Theresa Eimer, Follow up work published at ICML'21 12.2018 - 09.2019 Improved Meta-Learning for Algorithm Control through Self-Paced Learning MSc Thesis Kevin Hättig 12.2018 - 09.2019 Model-Based Population Based Training

MSc Thesis

MSc Project

Theresa Eimer & Kevin Hättig

Oliver Brunner, Joint supervision with D. Speck at GKI-Freiburg

Learning Domain-Independent Heuristics with Deep Neural Networks

11.2018 - 04.2019

04.2018 - 12.2018

Publications

3 Google Scholar

₩DBLP

0000-0002-8703-8559

Thesis

- [1] A. Biedenkapp. "Dynamic Algorithm Configuration by Reinforcement Learning". *Grade: Summa Cum Laude (best possible grade)*. PhD thesis. Freiburg, Germany: University of Freiburg, Department of Computer Science, Machine Learning Chair, Oct. 2022.
- [2] **A. Biedenkapp**. "Per Instance Algorithm Configuration". *Grade: 1.0 (best possible grade)*. Master's Thesis. Freiburg, Germany: University of Freiburg, Department of Computer Science, Machine Learning Chair, 2017.
- [3] A. Biedenkapp. "Data Analysis for the Selection of Recording Channels on Multielectrode-Arrays". Bachelor's Thesis. Freiburg, Germany: University of Freiburg, Department of Computer Science, Autonomous Intelligent Systems, Mar. 2014.

Journal & Conference Publications.....

- [4] G. Shala, **A. Biedenkapp**, F. Hutter, and J. Grabocka. "Gray-Box Gaussian Processes for Automated Reinforcement Learning". In: *Proceedings of the International Conference on Learning Representations (ICLR'23)*. Published online: iclr.cc, *Acceptance rate: 31.8%, Conference Rating: A**. 2023.
- [5] S. Adriaensen, **A. Biedenkapp**, G. Shala, N. Awad, T. Eimer, M. Lindauer, and F. Hutter. "Automated Dynamic Algorithm Configuration". In: *Journal of Artificial Intelligence Research (JAIR)* 75 (2022), pp. 1633–1699. DOI: https://doi.org/10.1613/jair.1.13922.
- [6] A. Biedenkapp*, N. Dang*, M. S. Krejca*, F. Hutter, and C. Doerr. "Theory-inspired Parameter Control Benchmarks for Dynamic Algorithm Configuration". In: Proceedings of the Genetic and Evolutionary Computation Conference (GECCO'22). Joint first authorship, Conference Rating: A, Won the Best Paper Award (GECH track). ACM, July 2022.
- [7] J. Parker-Holder, R. Rajan, X. Song, **A. Biedenkapp**, Y. Miao, T. Eimer, B. Zhang, V. Nguyen, R. Calandra, A. Faust, F. Hutter, and M. Lindauer. "Automated Reinforcement Learning (AutoRL): A Survey and Open Problems". In: *Journal of Artificial Intelligence Research (JAIR)* 74 (2022). *Journal Rating: A*, pp. 517–568. DOI: https://doi.org/10.1613/jair.1.13596.
- [8] M. Lindauer, K. Eggensperger, M. Feurer, **A. Biedenkapp**, D. Deng, C. Benjamins, R. Sass, and F. Hutter. "SMAC3: A Versatile Bayesian Optimization Package for Hyperparameter Optimization". In: *Journal of Machine Learning Research (JMLR) MLOSS* 23.54 (2022). *Journal Rating: A**, pp. 1–9.
- [9] **A. Biedenkapp**, R. Rajan, F. Hutter, and M. Lindauer. "TempoRL: Learning When to Act". In: *Proceedings of the Thirty-eighth International Conference on Machine Learning. Acceptance rate:* 21.5%, Conference Rating: A*. July 2021, pp. 914–924.
- [10] T. Eimer, **A. Biedenkapp**, F. Hutter, and M. Lindauer. "Self-Paced Context Evaluation for Contextual Reinforcement Learning". In: *Proceedings of the Thirty-eighth International Conference on Machine Learning. Acceptance rate: 21.5%, Conference Rating: A**. July 2021, pp. 2948–2958.
- [11] T. Eimer, **A. Biedenkapp**, M. Reimer, S. Adriaensen, F. Hutter, and M. Lindauer. "DACBench: A Benchmark Library for Dynamic Algorithm Configuration". In: *Proceedings of the Thirtieth International Joint Conference on Artificial Intelligence (IJCAI'21)*. Acceptance rate: 19.3%, Conference Rating: A*. ijcai.org, Aug. 2021, pp. 1668–1674.
- [12] D. Speck*, **A. Biedenkapp***, F. Hutter, R. Mattmüller, and M. Lindauer. "Learning Heuristic Selection with Dynamic Algorithm Configuration". In: *Proceedings of the Thirty-First International Conference on Automated Planning and Scheduling (ICAPS'21)*. **Joint first authorship**, *Acceptance rate:* ~30%, *Conference Rating:* A*. Aug. 2021, pp. 597–605.

- [13] B. Zhang, R. Rajan, L. Pineda, N. Lambert, **A. Biedenkapp**, K. Chua, F. Hutter, and R. Calandra. "On the Importance of Hyperparameter Optimization for Model-based Reinforcement Learning". In: *Proceedings of the International Conference on Artificial Intelligence and Statistics (AISTATS'21). Acceptance rate: 29.8%, Conference Rating: A.* Apr. 2021.
- [14] J. KH Franke, G. Köhler, **A. Biedenkapp**, and F. Hutter. "Sample-Efficient Automated Deep Reinforcement Learning". In: *Proceedings of the International Conference on Learning Representations* (ICLR'21). Published online: iclr.cc, Acceptance rate: 28.7%, Conference Rating: A*. May 2021.
- [15] G. Shala*, **A. Biedenkapp***, N. Awad, S. Adriaensen, F. Hutter, and M. Lindauer. "Learning Step-Size Adaptation in CMA-ES". In: *Proceedings of the Sixteenth International Conference on Parallel Problem Solving from Nature (PPSN'20)*. **Joint first authorship**, *Conference Rating: A*. Sept. 2020, pp. 691–706.
- [16] **A. Biedenkapp**, H. F. Bozkurt, T. Eimer, F. Hutter, and M. Lindauer. "Dynamic Algorithm Configuration: Foundation of a New Meta-Algorithmic Framework". In: *Proceedings of the European Conference on Artificial Intelligence (ECAI)*. Acceptance rate: 26.8%, Conference Rating: A. June 2020, pp. 427–434.
- [17] A. Biedenkapp, J. Marben, M. Lindauer, and F. Hutter. "CAVE: Configuration Assessment, Visualization and Evaluation". In: *Proceedings of the International Conference on Learning and Intelligent Optimization (LION'18)*. June 2018.
- [18] **A. Biedenkapp**, M. Lindauer, K. Eggensperger, C. Fawcett, H. Hoos, and F. Hutter. "Efficient Parameter Importance Analysis via Ablation with Surrogates". In: *Proceedings of the AAAI conference. Acceptance rate: 24.6%, Conference Rating: A**. Feb. 2017, pp. 773–779.

Workshop Publications & Preprints.....

- [19] G. Shala, **A. Biedenkapp**, F. Hutter, and J. Grabocka. "Gray-Box Gaussian Processes for Automated Reinforcement Learning". In: *Workshop on Meta-Learning (MetaLearn@NeurIPS'22)*. 2022.
- [20] G. Shala, S. Pineda Arango, **A. Biedenkapp**, F. Hutter, and J. Grabocka. "AutoRL-Bench 1.0". In: Workshop on Meta-Learning (MetaLearn@NeurIPS'22). 2022.
- [21] R. Sass, E: Bergman, A. Biedenkapp, F. Hutter, and M. Lindauer. "DeepCAVE: An Interactive Analysis Tool for Automated Machine Learning". In: Workshop on Adaptive Experimental Design and Active Learning in the Real World (ReALML@ICML'22). 2022.
- [22] **A. Biedenkapp**, D. Speck, S. Sievers, F. Hutter, M. Lindauer, and J. Seipp. "Learning Domain-Independent Policies for Open List Selection". In: *Workshop on Bridging the Gap Between AI Planning and Reinforcement Learning (PRL@ICAPS'22)*. 2022.
- [23] C. Benjamins, T. Eimer, F. Schubert, **A. Biedenkapp**, B. Rosenhan, F. Hutter, and M. Lindauer. "CARL: A Benchmark for Contextual and Adaptive Reinforcement Learning". In: *Workshop on Ecological Theory of Reinforcement Learning (EcoRL@NeurIPS'21)*. Sept. 2021.
- [24] S. Izquierdo, J. Guerrero-Viu, S. Hauns, G. Miotto, S. Schrodi, A. Biedenkapp, T. Elsken, D. Deng, M. Lindauer, and F. Hutter. "Bag of Baselines for Multi-objective Joint Neural Architecture Search and Hyperparameter Optimization". In: Workshop on Automated Machine Learning (AutoML@ICML'21). May 2021.
- [25] S. Müller, **A. Biedenkapp**, and F. Hutter. "In-Loop Meta-Learning with Gradient-Alignment Reward". In: AAAI workshop on Meta-Learning Challenges (MetaLearning@AAAI'21). Feb. 2021.
- [26] N. Awad, G. Shala, D. Deng, N. Mallik, M. Feurer, K. Eggensperger, A. Biedenkapp, D. Vermetten, H. Wang, C. Doerr, M. Lindauer, and F. Hutter. "Squirrel: A Switching Hyperparameter Optimizer Description of the entry by AutoML.org & IOHprofiler to the NeurIPS 2020 BBO challenge". In: arXiv:2012.08180 (Dec. 2020). Winning entry of the BBO Competition@NeurIPS'20 on a metalearnable search space.
- [27] A. Biedenkapp, R. Rajan, F. Hutter, and M. Lindauer. "Towards TempoRL: Learning When to Act". In: Workshop on Inductive Biases, Invariances and Generalization in RL (BIG@ICML'20). July 2020.

- [28] T. Eimer, **A. Biedenkapp**, F. Hutter, and M. Lindauer. "Towards Self-Paced Context Evaluation for Contextual Reinforcement Learning". In: *Workshop on Inductive Biases, Invariances and Generalization in RL (BIG@ICML'20)*. July 2020.
- [29] **A. Biedenkapp**, H. F. Bozkurt, F. Hutter, and M. Lindauer. "Towards White-Box Benchmarks for Algorithm Control". In: *IJCAI 2019 DSO Workshop*. Aug. 2019.
- [30] M. Lindauer, M. Feurer, K. Eggensperger, **A. Biedenkapp**, and F. Hutter. "Towards Assessing the Impact of Bayesian Optimization's Own Hyperparameters". In: *IJCAI 2019 DSO Workshop*. Aug. 2019.
- [31] C. Benjamins, T. Eimer, F. Schubert, A. Mohan, **A. Biedenkapp**, B. Rosenhan, F. Hutter, and M. Lindauer. "Contextualize Me The Case for Context in Reinforcement Learning". In: *arXiv*:2202.04500 [cs.LG] (2022).
- [32] R. Rajan, J. L. B. Diaz, S. Guttikonda, F. Ferreira, **A. Biedenkapp**, and Frank Hutter. "MDP Playground: Controlling Dimensions of Hardness in Reinforcement Learning". In: *arXiv*:1909.07750v3 (Oct. 2020).
- [33] M. Lindauer, K. Eggensperger, M. Feurer, **A. Biedenkapp**, J. Marben, P. Müller, and F. Hutter. "BOAH: A Tool Suite for Multi-Fidelity Bayesian Optimization & Analysis of Hyperparameters". In: *arXiv*:1908.06756 (Aug. 2019).

Blog Posts

- [34] **A. Biedenkapp**, R. Rajan, F. Hutter, and M. Lindauer. "TempoRL Learning When to Act". In: *Personal Blog* (May 2022). URL: https://andrebiedenkapp.github.io/blog/2022/temporl/.
- [35] A. Biedenkapp, N. Dang, M. S. Krejca, F. Hutter, and C. Doerr. "Theory-Inspired Parameter Control Benchmarks for DAC". In: *Personal Blog* (May 2022). URL: https://andrebiedenkapp.github.io/blog/2022/gecco/.
- [36] N. Lambert, B. Zhang, R. Rajan, and **A. Biedenkapp**. "The Importance of Hyperparameter Optimization for Model-based Reinforcement Learning". In: https://bair.berkeley.edu/blog (Apr. 2021). URL: https://bair.berkeley.edu/blog/2021/04/19/mbrl/.
- [37] R. Rajan, **A. Biedenkapp**, T. F. Runge, and J. Franke. "AutoRL: AutoML in the Realm of Deep Reinforcement Learning". In: https://www.automl.org/automl-blog (Apr. 2021). URL: https://www.automl.org/blog-autorl.
- [38] **A. Biedenkapp**. "Learning Step-Size Adaptation in CMA-ES". In: https://www.automl.org/automl-blog (Aug. 2020). URL: https://www.automl.org/learning-step-size-adaptation-in-cmaes.
- [39] **A. Biedenkapp**. "Dynamic Algorithm Configuration". In: https://www.automl.org/automl-blog (Feb. 2020). URL: https://www.automl.org/dynamic-algorithm-configuration.
- [40] **A. Biedenkapp** and F. Hutter. "BOHB". In: https://www.automl.org/automl-blog (Aug. 2018). URL: https://www.automl.org/blog_bohb.
- [41] **A. Biedenkapp**, K. Eggensperger, M. Feurer, and F. Hutter. "2nd AutoML Challenge". In: https://www.automl.org/automl-blog (Aug. 2018). URL: https://www.automl.org/blog-2nd-automl-challenge.

Patents

- [42] Biedenkapp, A., G. Shala, S. Adriaensen, N. Awad, M. Lindauer, and F. Hutter. "Method and Device for Learning a Strategy and for Implementing the Strategy". U.S. pat. req. 17/305,586. Robert Bosch GmbH. July 9, 2021. Filed.
- [43] S. Müller, **Biedenkapp, A.**, and F. Hutter. "Verbesserte Vorrichtung zum Anlernen von maschinellen Lernsysteme für Bildverarbeitung". German pat. DE202021100225. Robert Bosch GmbH. Feb. 12, 2021. URL: https://depatisnet.dpma.de/DepatisNet/depatisnet?action=bibdat&docid=DE202021100225U1.

- [44] D. Speck, **Biedenkapp, A.**, R. Matmüller, F. Hutter, and M. Lindauer. "Device and Method for Planning and Operation of a Technical System". U.S. pat. req. 17/242,790. Robert Bosch GmbH. Apr. 28, 2021. Filed.
- [45] D. Speck, **Biedenkapp, A.**, R. Matmüller, F. Hutter, and M. Lindauer. "Device and Method for Planning and Operation of a Technical System". European pat. req. EP20178576.3 1203. Robert Bosch GmbH. *Also filed requests for US patent and CN patent*. June 1, 2020. URL: http://v3.espacenet.com/textdoc?IDX=EP3920103. Filed.
- [46] **Biedenkapp, A.**, H. F. Bozkurt, F. Hutter, and M. Lindauer. "Method, Device and Computer Program for Adjusting a Hyperparameter". European pat. req. EP3748551. Robert Bosch GmbH. June 11, 2020. URL: http://v3.espacenet.com/textdoc?IDX=EP3748551. Filed.

Presentations

Presentations	
Invited Talks & Competitively-Selected Tutorials	
Learning to Dynamically Optimise Algorithms Seminar on Advances in Probabilistic Machine Learning, Aalto University Helsin	nki, Finland (online) 11.2022
Dynamic Algorithm Configuration ELLIS Meetup Freiburg, Freiburg, Germany	03.2022
Advances of Dynamic Algorithm Configuration Bosch Center for Artificial Intelligence, Renningen, Germany	06.2021
Algorithm Configuration: Challenges, Methods and Perspectives IJCAI 2020 Tutorial Jointly with Prof. Marius Lindauer	01.2021
Algorithm Configuration: Challenges, Methods and Perspectives PPSN 2020 Tutorial Jointly with Prof. Marius Lindauer	09.2020
Challenges of Dynamic Algorithm Configuration Bosch Center for Artificial Intelligence, Renningen, Germany	03.2020
Dynamic Algorithm Configuration Institut für Informationsverarbeitung (TNT), University of Hannover	01.2020
Conference Presentations.	
The Genetic and Evolutionary Computation Conference GECCO (Oral, Joint video presentation with all authors) Theory-inspired Parameter Control Benchmarks for Dynamic Algorithm Configuration	Online 07.2022
International Conference on Machine Learning ICML (Poster) TempoRL: Learning When to Act	Online 07.2021
International Conference on Parallel Problem Solving from Nature PPSN (Poster), Netherlands Learning Step-SizeAdaptation in CMA-ES	Leiden 08.2020
European Conference on Artificial Intelligence <i>ECAI (Oral), Spain</i> Dynamic Algorithm Configuration: Foundation of a New Meta-Algorithmic Framework	Santiago de Compostela 08.2020
Learning and Intelligent OptimizatioN Conference LION (Oral), Greece CAVE: Configuration Assessment, Visualization and Evaluation	Kalamata 06.2018
AAAI Conference on Artificial Intelligence AAAI (Poster), California, USA Efficient Parameter Importance Analysis via Ablation with Surrogates	San Francisco 02.2017

Workshop Presentations	
Bridging the Gap Between Al Planning and Reinforcement Learning PRL@ICAPS'22	Online <i>06.2022</i>
Learning Domain-Independent Policies for Open List Selection	0.11
Inductive Biases, Invariances and Generalization in Reinforcement Learning BIG@ICML'20	Online 07.2020
Towards TempoRL: Learning When to Act	Масац
Data Science Meets Optimisation DSO@IJCAI'19, Macau (SAR), China	08.2019
Towards White-box Benchmarks for Algorithm Control	00:2025
Scholarships, Honors and Awards	
Best Paper Award	
GECCO'22, Theory-inspired Parameter Control Benchmarks for Dynamic Algorithm Config GECH Track	guration 2022
Best Reviewers (Top 10%)	
ICML'21	2021
Black-Box Optimization Competiton@NeurIPS'20	1st place
Part of the AutoML & IOHprofiler Team, 1st place on a meta-learning friendly search Leaderboard: https://bbochallenge.com/altleaderboard	•
Black-Box Optimization Competiton@NeurIPS'20	3rd place*
Part of the AutoML & IOHprofiler Team, Leaderboard: https://bbochallenge.com/l*Due to a bug the initial evaluation failed. After re-evaluation our team would have gotten	
Professional Service	
Journal Reviewing.	
Journal of Artificial Intelligence Research 2022	JAIR
IEEE Transactions on Evolutionary Computation 2022	TEVC
Computational Intelligence 2022	CI
Journal of the Association for Computing Machinery 2022, 2021	Journal of the ACM
Program Committee Membership at Conferences	
AAAI Conference on Artificial Intelligence 2018	AAAI
AutoML Conference 2022	AutoML-Conf
European Conference on Artificial Intelligence	ECAI
European Workshop on Reinforcement Learning 2022	EWRL
International Conference on Machine Learning 2023, 2021, 2019	ICML
Neural Information Processing Systems 2022, 2021	NeurIPS

2022, 2021

NeurIPS Datasets and Benchmarks

2021 (Track 1 & Track 2)

Program Committee Membership at Workshops.....

ICLR Workshop on Agent Learning in Open-Endedness

ALOE

2022

ICML Workshop on Automated Machine Learning

AutoML@ICML

NeurIPS DBT

2021, 2020, 2019, 2018

NeurIPS Workshop on Meta-Learning

MetaLearn@NeurIPS

2019

Organizer

COSEAL Chair

since August 2022, Jointly with Alexander Tornede and Lennart Schäpermeier

2nd AutoML Fall School

2022, Co-Organiser

ELLIS Unit Meetups Freiburg

since July 2022, Co-Organiser with Simon Ging

Programming Skills

Excellent: Python, Bash, LaTeX Good: C, C#, C++, Julia Basic: Matlab, Java

Selected Open-Source Projects

GitHub Page: https://github.com/AndreBiedenkapp

https://github.com/automl/DAC

DAC

Role: Developer

DAC is the first dynamic algorithm configurator which enables configuration not only to specific problem instances but also at each time-step. To gain insights into the strengths and weaknesses of this reinforcement learning based configurator DAC comes with example white-box benchmarks.

https://qithub.com/automl/DACBench

DACBench

Role: Contributor

DACBench is a benchmark library for Dynamic Algorithm Configuration. Its focus is on reproducibility and comparability of different DAC methods as well as easy analysis of the optimization process.

https://github.com/automl/ParameterImportance

PyImp

Role: Developer

PyImp is an easy to use tool that helps developers to identify the most important parameters of their algorithms. Given the data of a configuration run with SMAC3, PyImp allows for usage of various parameter importance methods to determine which parameters have the most influence on the algorithms behaviour.

https://github.com/automl/SMAC3

SMAC3

Former Role: Contributor

Python implementation of SMAC (sequential model-based algorithm configuration). SMAC is a tool for automated algorithm configuration.

Languages

Native: German Fluent: English Basic: French