

# Michael Gerndt

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3932836/publications.pdf>

Version: 2024-02-01

28  
papers

321  
citations

1937685

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1720034

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g-index

28  
all docs

28  
docs citations

28  
times ranked

159  
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance Modeling for Cloud Microservice Applications. , 2019, , .		58
2	DeepEdgeBench: Benchmarking Deep Neural Networks on Edge Devices. , 2021, , .		38
3	Function delivery network: Extending serverless computing for heterogeneous platforms. Software - Practice and Experience, 2021, 51, 1936-1963.	3.6	26
4	FedLess: Secure and Scalable Federated Learning Using Serverless Computing. , 2021, , .		24
5	FaDO: FaaS Functions and Data Orchestrator for Multiple Serverless Edge-Cloud Clusters. , 2022, , .		16
6	Towards Federated Learning using FaaS Fabric. , 2020, , .		15
7	Performance Evaluation of Container Runtimes. , 2020, , .		12
8	Microservices vs Serverless: A Performance Comparison on a Cloud-native Web Application. , 2020, , .		12
9	Architecture-Specific Performance Optimization of Compute-Intensive FaaS Functions. , 2021, , .		12
10	Multilayered Cloud Applications Autoscaling Performance Estimation. , 2017, , .		11
11	Extending SLURM for Dynamic Resource-Aware Adaptive Batch Scheduling. , 2020, , .		10
12	TppFaaS: Modeling Serverless Functions Invocations via Temporal Point Processes. IEEE Access, 2022, 10, 9059-9084.	4.2	10
13	Capacity-Driven Scaling Schedules Derivation for Coordinated Elasticity of Containers and Virtual Machines. , 2019, , .		9
14	Modelling DVFS and UFS for Region-Based Energy Aware Tuning of HPC Applications. , 2019, , .		9
15	Courier. , 2021, , .		9
16	From DevOps to NoOps: Is It Worth It?. Communications in Computer and Information Science, 2021, , 178-202.	0.5	8
17	Poster: Function Delivery Network: Extending Serverless to Heterogeneous Computing. , 2021, , .		8
18	Estimating the capacities of function-as-a-service functions. , 2021, , .		8

#	ARTICLE	IF	CITATIONS
19	Forecasting Models for Self-Adaptive Cloud Applications: A Comparative Study. , 2018, , .		6
20	Invasive computing for timing-predictable stream processing on MPSoCs. IT - Information Technology, 2016, 58, 267-280.	0.9	5
21	Self-Adaptive Data Processing to Improve SLOs for Dynamic IoT Workloads. Computers, 2020, 9, 12.	3.3	4
22	MAFF: Self-adaptive Memory Optimization for Serverless Functions. Lecture Notes in Computer Science, 2022, , 137-154.	1.3	4
23	Evaluation of Autoscaling Metrics for (stateful) IoT Gateways. , 2019, , .		3
24	Online Memory Leak Detection in the Cloud-Based Infrastructures. Lecture Notes in Computer Science, 2021, , 188-200.	1.3	2
25	Scalable Infrastructure and Workflow for Anomaly Detection in an Automotive Industry. , 2020, , .		2
26	Special issue on energy reduction techniques for exa-scale computing: theory and practice. Computing (Vienna/New York), 2017, 99, 725-726.	4.8	0
27	Consistent Resource Utilization for Cross-Platform and Replicable Load-Testing: a Position Paper. , 2021, , .		0
28	Scalable Infrastructure for Workload Characterization of Cluster Traces. , 2022, , .		0