Michael Gerndt

List of Publications by Year
in descending order

28 papers	**321** citations	1937685 **4** h-index

1720034 **7** g-index

28 all docs	**28** docs citations	**28** times ranked	**159** citing authors

#	Article	IF	Citations
1	TppFaaS: Modeling Serverless Functions Invocations via Temporal Point Processes. IEEE Access, 2022, 10, 9059-9084.	4.2	10
2	MAFF: Self-adaptive Memory Optimization for Serverless Functions. Lecture Notes in Computer Science, 2022, , 137-154.	1.3	4
3	Scalable Infrastructure for Workload Characterization of Cluster Traces. , 2022, , .		0
4	FaDO: FaaS Functions and Data Orchestrator for Multiple Serverless Edge-Cloud Clusters. , 2022, , .		16
5	Online Memory Leak Detection in the Cloud-Based Infrastructures. Lecture Notes in Computer Science, 2021, , 188-200.	1.3	2
6	Function delivery network: Extending serverless computing for heterogeneous platforms. Software - Practice and Experience, 2021, 51, 1936-1963.	3.6	26
7	From DevOps to NoOps: Is It Worth It?. Communications in Computer and Information Science, 2021, , 178-202.	0.5	8
8	Poster: Function Delivery Network: Extending Serverless to Heterogeneous Computing. , 2021, , .		8
9	Architecture-Specific Performance Optimization of Compute-Intensive FaaS Functions. , 2021, , .		12
10	DeepEdgeBench: Benchmarking Deep Neural Networks on Edge Devices. , 2021, , .		38
11	Consistent Resource Utilization for Cross-Platform and Replicable Load-Testing: a Position Paper. , 2021, , .		0
12	FedLess: Secure and Scalable Federated Learning Using Serverless Computing. , 2021, , .		24
13	Estimating the capacities of function-as-a-service functions. , 2021, , .		8
14	Courier. , 2021, , .		9
15	Self-Adaptive Data Processing to Improve SLOs for Dynamic IoT Workloads. Computers, 2020, 9, 12.	3.3	4
16	Towards Federated Learning using FaaS Fabric. , 2020, , .		15
17	Performance Evaluation of Container Runtimes. , 2020, , .		12
18	Microservices vs Serverless: A Performance Comparison on a Cloud-native Web Application. , 2020, , .		12

#	Article	IF	Citations
19	Scalable Infrastructure and Workflow for Anomaly Detection in an Automotive Industry. , 2020, , .		2
20	Extending SLURM for Dynamic Resource-Aware Adaptive Batch Scheduling. , 2020, , .		10
21	Capacity-Driven Scaling Schedules Derivation for Coordinated Elasticity of Containers and Virtual Machines. , 2019, , .		9
22	Performance Modeling for Cloud Microservice Applications. , 2019, , .		58
23	Modelling DVFS and UFS for Region-Based Energy Aware Tuning of HPC Applications. , 2019, , .		9
24	Evaluation of Autoscaling Metrics for (stateful) IoT Gateways. , 2019, , .		3
25	Forecasting Models for Self-Adaptive Cloud Applications: A Comparative Study. , 2018, , .		6
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	Multilayered Cloud Applications Autoscaling Performance Estimation. , 2017, , .		11
28	Invasive computing for timing-predictable stream processing on MPSoCs. IT - Information Technology, 2016, 58, 267-280.	0.9	5