



CALL FOR PAPERS

ICDMVAS 2020
Jul 16-17, 2020
Bali, Indonesia

The International Research Conference is a federated organization dedicated to bringing together a significant number of diverse scholarly events for presentation within the conference program. Events will run over a span of time during the conference depending on the number and length of the presentations.

ICDMVAS 2020 : International Conference on Data Management on Virtualized Active Systems is the premier interdisciplinary forum for the presentation of new advances and research results in the fields of Data Management on Virtualized Active Systems. The conference will bring together leading academic scientists, researchers and scholars in the domain of interest from around the world. Topics of interest for submission include, but are not limited to:

Data Management Issues in Active Systems (e.g., active network, storage, and memory)
Data Management Issues in Software-Hardware-System Co-design
Active Technologies (e.g., SSDs, GPUs, FPGAs, and ASICs) in Co-design Architectures
Query Orchestration and Execution Models in Co-design Architectures
Enabling Partial Computation or Best Effort Computation in Co-design Architectures
Offloading Computation to Accelerators in Co-processor Design
Placing Accelerator on the Data Path in Co-placement Design
Programming Methodologies for Data-intensive Workloads on Active Technologies
Virtualizing Active Technologies on Cloud (e.g., Scalability and Security)

Exploiting Active Technologies in Modern Databases (e.g., NoSQL and NewSQL)
Extending Runtime of Big Data Systems (e.g., Spark, Hadoop) with Active Technologies
Autonomic Tuning for Data Management Workloads in Co-design Architectures
Algorithms and Performance Models for Active Memory and Storage Sub-systems
Novel Applications of Low-Power Modern Processors, GPUs, FPGAs, and ASICs
Novel Applications of Transactional Memory in Co-design Architectures
Workload-aware System Co-design for Emerging Applications (e.g., Internet-of-Things, Personalized Health, and Precision Medicine)