CALL FOR PAPERS

VLSI Design & Test Symposium (VDAT) promotes research and development in various fields of VLSI Design. VDAT began as a small workshop in the year 1998, and in 2005 it acquired the status of an international symposium. The 27th International Symposium on VLSI Design and Test (VDAT-2023) will be jointly hosted by Birla Institute of Technology & Science, Pilani, and CSIR - Central Electronics Engineering Research Institute (CSIR-CEERI), Pilani. This symposium aims to bring Industries, Academicians, Researchers, Startups, SMEs, and related practitioners together to exchange their ideas for leveraging in their respective fields. The VLSI Society of India, leading institutes and industries actively support the symposium.

Emerging Chip Architectures for Future: Beyond Moore's Law

Low-Power Integrated Circuits and Devices
- Low-Power Analog/Digital/Mixed Signal Circuits
- Low-Voltage Low-Power Sensors Interface
- Circuit design for Reliability
- Device Modelling and Simulation
- MEMS/NEMS/MOEMS Devices, Organic Devices

FPGA-based Design and Embedded Systems
- Adaptive Computing using Reconfigurable Fabrics
- Large-Scale Systems and Power Networks
- Hardware-Software Co-design
- Reconfigurable and FPGA-based Design
- Multi-FPGA Systems

Memory, Computing, & Processor Design
- Memory Design
- STT-RAM, PC-RAM, R-RAM, and Memristors
- Emerging Memory Technologies
- Neuromorphic Computing
- Quantum Computing

System-Level Design
- Systems-on-Chip (SoC), Lab-on-Chip
- Mixed-Mode System-on-Chip
- High-Speed Interconnects, Network-on-Chip
- Wireless Transceivers, Multiprocessors Interconnects
- Heterogeneous and Homogeneous Multiprocessors

VLSI Architectures and System Integration
- VLSI Processors & Signal Processing Architectures
- RF Integrated Circuits & Systems
- Machine Learning Architectures
- Low-Power IoT Architectures and Systems
- Compressive Sensing, Wireless Systems

Emerging Integrated Circuits and Systems
- Artificial Intelligence Accelerators
- Cognitive Computing Accelerators
- Printed & Flexible Electronics
- Low Power Edge Computing System
- Analog/Digital/Mixed Signal Circuits

VLSI Testing and Security
- Hardware Security and VLSI Design Optimization
- Hardware Attacks, Detection, Threat Modelling
- Fault Diagnosis and Fault Models
- DFT and BST for Digital Designs

CAD for VLSI
- Design Automation and CAD Tools
- Design Flows for MPSoCs
- ML/Al based Design-Flows and EDA
- Design Automation for DFX

Student Fellowship
VDAT-2023 will provide a limited number of fellowships to Undergraduate and Masters students for attending the symposium. Details may be checked out from the website.

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Dates & Deadlines

Regular Papers
- Full Paper Submission: May 15, June 15, 2023
- Notification of Acceptance: July 22, 2023
- Camera Ready Paper: August 07, 2023

Poster Papers
- Paper Submission: May 15, June 15, 2023
- Notification of Acceptance: July 22, 2023
- Camera Ready Paper: August 07, 2023

Design Contest
- Submission of Design: May 15-16, 2023
- Notification of Acceptance: July 15-22, 2023

Submission Guidelines
Authors are invited to submit original, unpublished research manuscripts on the above topics. Submissions must be done through easychair portal: https://easychair.org/conferences/?conf=vdat2023. All papers will be peer-reviewed with a double-blind review process. All accepted papers must be presented by one of the authors in order to be included in the SCOPUS indexed Springer Lecture Notes in Computer Science (LNCS) conference proceedings.

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