



VLSI DESIGN CONFERENCE

36th International Conference on VLSI Design & 22nd International Conference on Embedded Systems
8-12 Jan, 2023, HICC, Novotel, Hyderabad

Semiconductors Driving Disruptive Innovations in Global Digitalization

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TECHNICAL PAPERS

Executive Summary

- ✓ Indexed in IEEE Xplore
- ✓ 60:40– Academic: Industry
- ✓ 80:20–National: International
- ✓ Total Paper Submissions: 282
- ✓ Accepted Papers: 54
- ✓ Accepted Posters*: 17 (* Posters are submitted as complete 6-page IEEE Xplore paper)
- ✓ 4 Awards
 - Best Paper (A K Chowdhury Best Paper)
 - Best Student Paper (Nripendra Nath Biswas Best Student Paper)
 - Honorable Mention (Naresh Mallipeddy Honorable Mention Award)
 - Best Poster Award

| Tracks | # of papers |
|------------------------------------|-------------|
| Analog and Mixed Signals | 16 |
| Embedded Systems | 9 |
| Advances in CAD & VLSI | 9 |
| Low Power Digital Architecture | 4 |
| Test & Reliability | 4 |
| Hardware for AI/ML | 4 |
| Sensors and Wireline Communication | 4 |
| Latest Trends in Device Modeling | 4 |
| Total | 54 |

Technical Co-Sponsorship

ACM SIGDA, IEEE CAS & CEDA

Other Statistics

TPC Members: 280
 Track Chairs: 24
 Total Reviews: 922
 Paper Mgmt. System : Softconf
 Plagiarism Check Tool : Turnitin & IEEE Cross Check
 Invited Talks : 11
 Min. Blind Reviews: 3
 Publications: IEEE Conf. Publication (CPS)



DESIGN CONTEST

Theme: Hardware & Embedded Software Co-Design with Hardware Acceleration in SoC FPGA

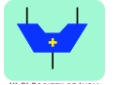
HW Platform: Microchip Technology's RISC-V Based Polar Fire SoC FPGA Icicle Kit

Idea Areas:

- ✓ Wireless Systems for Smart Villages
- ✓ Deep Learning & AI/ML Accelerators
- ✓ Medical Prosthetics, Tumor Detection, ECG, Tissue Classification
- ✓ Imaging Algorithms

Statistics

- ✓ 400 manhours for Ideation of Contest Theme & Planning
- ✓ 250 manhours for Market Outreach Material Preparation
- ✓ 200 manhours for Review, Final Selections
- ✓ 350 manhours for technical support to contestants
- ✓ 10 Accepted out of 75 total submissions
- ✓ 2 Awards – 1 Runner, 1 Winner



USER DESIGN TRACK

- ✓ Presentation submissions on
 - Artificial Intelligence, Machine Learning and their applications
 - Analog & Mixed Signal Design
 - Digital Integrated Circuits & Systems
 - Lower power Digital Architectures
 - Emerging Technologies & Devices
 - Embedded System Design
 - Electronic Design Automation
 - Security & Safety
 - Sensors, Circuits & Systems
 - Power Electronics
 - RF Circuits & Systems
 - Test & Reliability
 - Architectures
 - Packaging and Interconnects

- ✓ 80 plus submissions
- ✓ 10 presentations
- ✓ 2 Awards - 1 Best UDT, 1 Honorable Mention from Academia



STUDENT RESEARCH FORUM

- ✓ Abstract submissions on
 - VLSI Design & Embedded Systems
 - Advancements in Computing, Connectivity, Energy Management, Photonics, Optical Communications, RF/Digital/Analog Circuit Design, Sensors, Embedded Systems, Neuromorphic Systems, Beyond 5G/6G, 2D/3D packaging, Test & Reliability
- ✓ 45 plus submissions
- ✓ 9 final presentations
- ✓ 2 Awards – 1 Runner, 1 Winner



FELLOWSHIPS

- ✓ 150 Travel Allowance Grants
- ✓ 172 Free Registrations
- ✓ 110+ Fellow attendees
- ✓ Free Boarding & Lodging (non-locals)
- ✓ 75+ claimed TA grants

INDUSTRY FORUM

- ✓ Keynotes & Panel Discussions on
 - 5G Opportunities & Challenges
 - 5G Use cases & how to transform businesses and industries
 - Automotive Innovations for Sustainable & Safe Mobility
 - India on E-mobility highway
 - Semiconductor Manufacturing in India
 - Evolution of Indian EDA Marketplace



KEYNOTES

18 Keynote Speakers – National & International

TUTORIALS

- ✓ 2 days of Tutorials
- ✓ Industry In-house Infrastructure and Logistics
- ✓ 3 Tracks
- ✓ 12 Sessions
- ✓ 29 Speakers

START-UP FORUM

- ✓ Pitches from startups in semiconductors & embedded systems products
- ✓ Startup interaction with investors and mentors
- ✓ Entries from 18 Startups
- ✓ Jury from Industry, startup & investor communities
- ✓ 11 startups selected for the pitching competition
- ✓ 2 joint winners
- ✓ 300 attendees



All Other Contributors

- ✓ 40+ Organizing Committee Members
- ✓ 110+ Volunteers
- ✓ 3 In-house MCs
- ✓ 22+ Sponsors
- ✓ 60+ Exhibits
- ✓ 1600+ Delegates

Special Recognitions

- ✓ **Lifetime Achievement Award** – Dr. Satya Gupta - for his outstanding contribution to the Growth and Development of Semiconductor Industry in India
- ✓ **Special Recognition Award** – Shri Saurabh Gaur, IAS - for his outstanding contribution in formulating and implementing Semiconductor & Electronics Manufacturing Schemes

