



Special Interest Group on Design Automation ACM/SIGDA E-NEWSLETTER, Vol. 55, No. 7

SIGDA - The Resource for EDA Professionals

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Online archive: https://www.sigda.org/publications/newsletter

SIGDA News

1. Al demand is driving the market, uncertainty lies ahead, says SEMI

According to SEMI, the electronics and chip markets in 1Q25 markets followed typical seasonality, but the industry has warned of atypical market shifts due to tariff uncertainty.

2. UK Plans \$1 Billion AI Supercomputer

The UK government is allocating \$1bn (£750m) for a next-generation AI supercomputer based in Edinburgh, Scotland.

3. Cadence, Samsung Bring AI to SoC, 3D-IC and Chiplet Design

Cadence and Samsung Foundry have expanded their collaboration with a new multi-year IP agreement and joint development of advanced Al-driven flows on the latest SF2P and other advanced process nodes.

4. Mitsubishi Verifies 7 GHz Band 5G GaN PA Module

Mitsubishi Electric Corporation claims to have developed the first compact 7 GHz band gallium nitride (GaN) power amplifier module (PAM) with the highest power efficiency.

5. Al Restructures Siemens EDA Tools

Siemens EDA is restructuring the structure of its EDA tools to adopt a new architecture for artificial intelligence (AI) and machine learning (ML).

6. TI, Micron Fabs Highlight the High Cost of Politics

Texas Instruments (TI) has re-announced its plans to invest in seven semiconductor fabs in the US at an increased cost of \$60bn.

7. NFC Release 15 Extends Range to Grow Use Cases

NFC Release 15, announced by the NFC Forum, will extend the range of certified compliant NFC contactless connections up to 2 cm, which is 4x greater than the current range of 0.5 cm, supporting faster, more reliable contactless interactions

Message from the EiC

Dear Readers,

In this edition, we bring you the latest news and activities in our community, upcoming conferences, paper deadlines, an insightful article on What is Hardware Software Co-Design, and job openings worldwide.

Please do not hesitate to write to us if you want to contribute articles and announcements or share your thoughts and feedback.

Sandeep Chandran, Editor-in-Chief, SIGDA e-Newsletter across a growing number of use cases such as wireless charging, kitchen appliances, wearables, and digital keys.

8. Intel Closes Automotive Chip Business

This is separate from Intel's 88% stake in ADAS and self-driving controller chip designer Mobileye, which was spun out as a separate company in 2022. Intel says that 50 million cars use its chips, but these are mainly general-purpose processors.

SIGDA Awards

1. 2025 MARIE R. PISTILLI WOMEN IN ENGINEERING ACHIEVEMENT AWARD @ DAC 2025

https://www.dac.com/Portals/0/62DAC/Program/62DACProgram.pdf?ver=M_DMJU3AU3OMZhX6dDiwsO%3d%3d

Marilyn Wolf

Elmer E. Koch Professor of Engineering, University of Nebraska—Lincoln, US

2. 2025 DAC UNDER-40 INNOVATORS AWARD @ DAC 2025

https://www.dac.com/Portals/0/62DAC/Program/62DACProgram.pdf?ver=M_DMJU3A U3OMZhX6dDiwsO%3d%3d

- Tsung-Wei Huang, University of Wisconsin, Madison
- Tushar Krishna, Georgia Institute of Technology
- Xiaolin Xu, Northeastern University
- Hajar Falahati, Barcelona Supercomputing Center
- Souvik Kundu , Intel Corporation

3. 2025 MOST INFLUENTIAL PAPER AWARD @ DAC 2025

https://www.dac.com/Portals/0/62DAC/Program/62DACProgram.pdf?ver=M_DMJU3A U3OMZhX6dDjwsQ%3d%3d

Chisel: Constructing Hardware in a Scala Embedded Language (in DAC'12)

Jonathan Bachrach, Huy Vo, Brian Richards, Yunsup Lee, Andrew Waterman, Rimas Avižienis, John Wawrzynek, Krste Asanovic

University of California Berkeley, US

4. 2025 BEST PAPER NOMINEES @ DAC 2025

https://www.dac.com/Portals/0/62DAC/Program/62DACProgram.pdf?ver=M_DMJU3A U3OMZhX6dDjwsQ%3d%3d

- INSTA: An Ultra-Fast, Differentiable, Statistical Static Timing Analysis Engine for Industrial Physical Design Applications
- LVM-MO: A Large Vision Model Pioneer for Full-Chip Mask Optimization
- GEM: GPU-Accelerated Emulator-Inspired RTL Simulation

SIGDA E-News Editorial Board

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Xiang Chen, AE for News

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Xunzhao Yin.

AE for Awards

Han (Jane) Wang,

AE for What is

Alberto Marchisio,

AE for What is

Rajsaktish Sankaranarayanan,

AE for Researcher spotlight

Xin Zhao,

AE for Paper submission

Ying Wang,

AE for Technical activities

Jiaqi Zhang,

AE for Technical activities

- CirSTAG: Circuit Stability Analysis on Graph-based Manifolds
- PICK: An SRAM-based Processing-in-Memory Accelerator for K-Nearest-Neighbor Search in Point Clouds
- ZenLeak: Practical Last-Level Cache Side-Channel Attacks on AMD Zen Processors
- BoolE: Exact Symbolic Reasoning via Boolean Equality Saturation

5. ACM TODAES ROOKIE AUTHOR OF THE YEAR (RAY) AWARD @ DAC 2025 ACM/SIGDA

https://www.dac.com/Portals/0/62DAC/Program/62DACProgram.pdf?ver=M_DMJU3AU3OMZhX6dDjwsQ%3d%3d

Enhanced Compiler Technology for Software-based Hardware Fault Detection

Davide Baroffio
Politecnico di Milano, Italy

6. 2025 ACM TODAES BEST PAPER AWARD @ DAC 2025 ACM/SIGDA

https://www.dac.com/Portals/0/62DAC/Program/62DACProgram.pdf?ver=M_DMJU3A U3OMZhX6dDiwsO%3d%3d

VeriGen: A Large Language Model for Verilog Code Generation

Shailja Thakur¹, Baleegh Ahmad¹, Hammond Pearce², Benjamin Tan³, Brendan Dolan-Gavitt¹, Ramesh Karri¹, Siddharth Garg¹

¹ New York University, USA | ² University of New South Wales, Australia | ³ University of Calgary, CA

7. 2024 PHIL KAUFMAN AWARD FOR DISTINGUISHED CONTRIBUTIONS TO EDA @ DAC 2025 IEEE/CEDA

https://www.dac.com/Portals/0/62DAC/Program/62DACProgram.pdf?ver=M_DMJU3A_U3OMZhX6dDiwsO%3d%3d

Prof. Jason Cong *UCLA*

8. ACM SIGDA DISTINGUISHED SERVICE AWARD @ DAC 2025 ACM/SIGDA

https://www.dac.com/Portals/0/62DAC/Program/62DACProgram.pdf?ver=M_DMJU3A U3OMZhX6dDjwsQ%3d%3d

- Sharon Hu, University of Notre Dame
- **Ulf Schlichtmann,** Technical University of Munich

9. SIGDA SERVICE AWARD @ DAC 2025 ACM/SIGDA

https://www.dac.com/Portals/0/62DAC/Program/62DACProgram.pdf?ver=M_DMJU3AU3OMZhX6dDjwsQ%3d%3d

- Yuan-Hao Chang, Academia Sinica
- Preeti Ranjan Panda, Indian Institute of Technology Delhi

Paper Deadlines

ASP-DAC'26 - Asia and South Pacific Design Automation Conference

Hong Kong, China Abstracts due: July 4, 2025 Deadline: July 11, 2025 Jan. 19-22, 2026 http://www.aspdac.com/

FPT'25 - Int'l Conference on Field-Programmable Technology

Shanghai, China Abstracts due: July 14, 2025 Deadline: July 23, 2025 Dec. 2-5, 2025 http://icfpt.org/

VLSID'26 - International Conference on VLSI Design & International Conference on Embedded Systems

Pune, Maharashtra, India Deadline: July 25, 2025 Jan. 3-7, 2026 https://vlsid.org/

ISSCC'26 – IEEE Int'l Solid-State Circuits Conference

San Francisco, CA Deadline: Sept 3, 2025 Feb 15-19, 2026 http://isscc.org/

ISPD'26 - ACM Int'l Symposium on Physical Design

Bonn, Germany Abstracts due: Sept. 21, 2025 Deadline: Sept. 28, 2025 Mar 15-18, 2026 http://www.ispd.cc/

- Frank Schirrmeister, Synopsys
- Ziegenbein Dirk, Robert Bosch

10. IEEE FELLOWS @ DAC 2025 IEEE/CEDA

https://www.dac.com/Portals/0/62DAC/Program/62DACProgram.pdf?ver=M_DMJU3A U3OMZhX6dDjwsQ%3d%3d

- Umit Ogras, University of Wisconsin, Madison
- Patrick Schaumont, Worcester Polytechnic Institute
- **Peilin Song,** IBM Thomas J. Watson Research Center
- **Sheldon Tan,** University of California, Riverside

11. IEEE/ACM A RICHARD NEWTON TECHNICAL IMPACT AWARD IN ELECTRONIC DESIGN AUTOMATION @ DAC 2025 IEEE/CEDA

https://www.dac.com/Portals/0/62DAC/Program/62DACProgram.pdf?ver=M_DMJU3A U3OMZhX6dDiwsO%3d%3d

- Luca Carloni, Columbia University
- Kenneth L. McMillan, UT Austin
- Alberto Sangiovanni-Vincentelli, UC Berkeley

12. IEEE CEDA OUTSTANDING SERVICE AWARD @ DAC 2025 IEEE/CEDA

https://www.dac.com/Portals/0/62DAC/Program/62DACProgram.pdf?ver=M_DMJU3AU3OMZhX6dDjwsQ%3d%3d

Vivek De

Intel

13. IEEE TRANSACTIONS ON COMPUTER-AIDED DESIGN OF INTEGRATED CIRCUITS AND SYSTEMS DONALD O. PEDERSON BEST PAPER AWARD @ DAC 2025 IEEE/CEDA

https://www.dac.com/Portals/0/62DAC/Program/62DACProgram.pdf?ver=M_DMJU3A U3OMZhX6dDjwsO%3d%3d

SpikeSim: An End-to-End Compute-in-Memory Hardware Evaluation Tool for Benchmarking Spiking Neural Networks

Abhishek Moitra1, Abhiroop Bhattacharjee1, Runcong Kuang2, Gokul Krishnan3, Yu Cao2, Priyadarshini Panda1

¹ Yale University | ² Arizona State University | ³ Meta Reality Labs

14. IEEE GUSTAV ROBERT KIRCHOFF AWARD @ DAC 2025 IEEE/CEDA

https://www.dac.com/Portals/0/62DAC/Program/62DACProgram.pdf?ver=M_DMJU3A U3OMZhX6dDiwsO%3d%3d

Prof. Giovanni di Micheli

EPFL

Upcoming Conferences

ISVLSI'25 – IEEE Computer Society Annual Symposium on VLSI

Kalamata, Greece July 6-9, 2025

http://www.ieee-isvlsi.org/

ISLPED'25 – ACM/IEEE Int'l Symposium on Low Power Electronics and Design

University of Iceland, Iceland Aug. 6-8, 2025

http://www.islped.org/

MLCAD'25 - ACM/IEEE International Symposium on Machine Learning for CAD

Santa Cruz, CA, USA Sep. 8-10, 2025

https://mlcad.org/symposium/2025/

ESWEEK'25 - Embedded Systems Week

Taipei, Taiwan Sept. 28 - Oct. 3, 2025 http://www.esweek.org/

VLSI-SoC'25 – IFIP/IEEE Int'l Conference on Very Large Scale Integration

Puerto Varas, Chile Oct. 12-15, 2025

http://www.vlsi-soc.com

MICRO'25 – IEEE/ACM Int'l Symposium on Microarchitecture Seoul, Korea

Oct. 18-22, 2025

http://www.microarch.org/micro58

ICCAD'25 - IEEE/ACM Int'l Conference on Computer-Aided Design

Munich, Germany Oct 26-30, 2025 https://iccad.com/

15. IEEE JUN-ICHI NISHIZAWA MEDAL @ DAC 2025 IEEE/CEDA

https://www.dac.com/Portals/0/62DAC/Program/62DACProgram.pdf?ver=M_DMJU3AU3OMZhX6dDiwsO%3d%3d

Prof. Robert W. Dutton

Stanford University

16. IEEE JAMES H. MULLIGAN, JR. EDUCATION MEDAL @ DAC 2025 IEEE/CEDA

https://www.dac.com/Portals/0/62DAC/Program/62DACProgram.pdf?ver=M_DMJU3AU3OMZhX6dDjwsQ%3d%3d

Prof. Jan Rabaey

UC Berkeley

17. IEEE COMPUTER SOCIETY EDWARD J. MCCLUSKEY TECHNICAL ACHIEVEMENT AWARD @ DAC 2025 IEEE/CEDA

https://www.dac.com/Portals/0/62DAC/Program/62DACProgram.pdf?ver=M_DMJU3A U3OMZhX6dDiwsO%3d%3d

Prof. Hai (Helen) Li

Duke University

What is Hardware-Software Co-Design?

Contributing author: Yi Sheng <ysheng2@gmu.edu> Incoming Assistant Professor, University of South Florida **AE:** Han Wang <han.wang.hw@temple.edu>

As modern computing systems demand ever higher performance, efficiency, and adaptability, traditional design methods—where hardware and software are developed in isolation—are reaching their limits [1][2]. Hardware-software co-design is a holistic approach that develops both hardware and software components together, enabling them to be optimized in tandem [3][4]. This method is increasingly essential for embedded systems, AI accelerators, and real-time applications where tight resource constraints and high-performance requirements coexist.

Historically, hardware and software were developed sequentially, adapting one to fit the other. This separation often results in inefficiencies and underutilized hardware. In contrast, co-design allows for concurrent development, enabling designers to balance constraints across layers and meet ambitious design goals. Take edge AI for example. Devices like wearables or drones must run intelligent applications with strict energy, latency, and fairness constraints. Our group developed a hybrid vision model for edge medical AI that was co-designed from neural architecture to hardware execution. This system achieved low latency and

PACT'25 - Int'l Conference on Parallel Architectures and Compilation Techniques

Irvine, CA, USA Nov. 3-6, 2025

http://www.pactconf.org

ICCD'25 – IEEE Int'l Conference on Computer Design

Dallas, TX, USA Nov. 10-12, 2025

http://www.iccd-conf.com

high fairness, which would not be possible through isolated software or hardware optimization [3].

Another prominent application of co-design is in AI accelerators. Rather than relying on general-purpose hardware, designers now co-optimize neural network architectures alongside specialized chips and compilers. This coordinated approach allows smaller, co-designed models to outperform larger, generic ones in fairness, latency, and efficiency—an especially valuable outcome in resource-constrained environments [4]. A key driver of these gains is energy efficiency: by aligning software features such as quantization and memory access patterns with hardware capabilities, systems can significantly reduce power consumption [5].

Predictability is paramount in real-time and safety-critical systems. Here, co-design plays a central role in mapping time-sensitive operations to hardware while allowing control logic to remain in software. This separation, coordinated through proper scheduling and analysis, ensures that timing constraints are satisfied without over-provisioning resources [6].

To achieve such results, co-design employs several core techniques:

- Partitioning, to determine which functions run in hardware (e.g., accelerators) versus software (e.g., general-purpose code) [6].
- Scheduling, which coordinates computation across processors, hardware units, and memory subsystems [6].
- Cross-layer optimization, where design decisions take into account constraints and capabilities across algorithm, architecture, and hardware levels [2].
- Design space exploration (DSE), used to evaluate many candidate configurations to find optimal trade-offs [7].

Looking forward, co-design is expected to play a growing role in addressing the demands of heterogeneous computing platforms and domain-specific accelerators. As systems scale in complexity, the integration of tools for neural architecture search, quantization-aware training, and hardware simulation becomes increasingly necessary [7]. These tools help automate the co-design process, making it more accessible and scalable.

In conclusion, hardware-software co-design enables efficient and principled development for modern computing systems. From edge AI to real-time control, this methodology improves energy efficiency, fairness, and overall performance. It offers a practical pathway to build systems that are not only more powerful but also more adaptable to the diverse and growing demands of modern applications [8][9].

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- [7] Ponzina, F. (2023). Hardware-software co-design methodologies for edge AI optimization (Doctoral dissertation, EPFL).
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SIGDA Partner Journal

ACM Transactions on Design Automation of Electronic Systems (TODAES)

features groundbreaking research and development in the specification, design, analysis, simulation, testing, and evaluation of electronic systems, with a focus on computer science and engineering. The journal's impact factor increased to 2.2 in 2023, more than doubling its value from 2020. Additionally, each issue highlights a notable contribution as the Editor's Pick for special recognition.

TODAES also recognizes papers and outstanding junior researchers through the <u>best paper</u> and <u>rookie of the year</u> awards. Authors can send their paper submissions to the <u>manuscript portal</u>.

TODAES welcomes special issue proposals from leading researchers and practitioners. Such proposals should be emailed to Prabhat Mishra, Senior Associate Editor, at prabhat@ufl.edu

TODAES Special Issue Call for Papers

Special Issue on Co-Design and Design Automation for Optical/Photonic Computing Systems

This special issue seeks original submissions on pioneering research aimed at advancing co-design and EDA methodologies to support the modeling, simulation, design optimization, and physical implementation toward hybrid integration of optical computing/interconnect and electronic systems with high reliability, scalability, and efficiency. All these topics, as well as further potential topics mentioned below, are of interest to this special issue.

Important Dates

- Submissions deadline: Oct 15, 2025
- First-round review decisions: Dec 15, 2025
- Deadline for revision submissions: Jan 15, 2026

- Notification of final decisions: Feb 15, 2026
- Tentative publication: Spring 2026

Submissions should be made through the ACM TODAES submission site (http://mc.manuscriptcentral.com/todaes)

For questions and further information, please contact guest editors at:

- Jiaqi Gu, Arizona State University, jiaqigu@asu.edu
- Cunxi Yu, University of Maryland, cunxiyu@umd.edu
- Sudeep Pasricha, Colorado State University, sudeep@colostate.edu
- Xu Wang, Cadence Design Systems, xubc@cadence.com

More information can be found in this <u>call for papers</u>.

EDITOR'S PICK FROM ACM TODAES ISSUE 3, 2025

A Survey of Research in Large Language Models for Electronic Design
Automation

Jingyu Pan¹, Guanglei Zhou¹, Chen-Chia Chang¹, Isaac Jacobson¹, Jiang Hu², Yiran Chen¹

¹ Duke University, USA | ² Texas A&M University, USA

Abstract: This article presents a comprehensive survey of Large Language Model (LLM) applications in Electronic Design Automation (EDA), analyzing how these models transform hardware design across system-level design, RTL design, logic synthesis, and physical design stages. Through analysis of over 40 recent research works, the survey reveals that domain-adapted LLMs with specialized fine-tuning significantly outperform general-purpose models, while autonomous agent frameworks demonstrate superior capabilities compared to single-shot generation methods. The paper identifies key innovations including multi-modal feature representations combining textual, graph-based, and image-based circuit data, custom tokenization for hardware description languages, and feedback-enhanced methodologies enabling autonomous design refinement. The analysis uncovers a performance correlation between model size and functional correctness, while advanced customization techniques achieve superior results even with smaller models. The survey categorizes application bottlenecks including data privacy concerns, domain adaptation challenges, and computational constraints, while highlighting promising research directions in explainable hardware design and multi-modal circuit understanding.

Continue reading more on ACM DL.

Technical Activities

1. Al Demand Drives Disaggregated Storage

The massive, exponential growth of AI data is driving the need for disaggregated storage, and Western Digital sees both hard drives and SSDs in the mix. The flurry of announcements are aimed at helping customers scale up flexible storage

infrastructures to meet the accelerated demands of AI, machine learning and data-heavy workloads as storage is pushed outside the confines of the server...

2. Want A Smart Factory? It's All About the Data

At last week's MES & Industry 4.0 conference in Porto, Portugal, the message was clear: production is king, and we can only make factories smart – and even intelligent as a next logical step – if you manage to unlock real value from the data to improve production without making the operator's job harder...

3. Red Hat Taps APAC with Open-Source AI, Hybrid Cloud

Red Hat has launched its Al Inference Server, a new product designed to make LLM deployment faster, more portable and easier to manage across hybrid cloud environments. The solution is part of both Red Hat OpenShift Al and Red Hat Enterprise Linux Al (RHEL Al) but is also available as a standalone offering. The company has also made OpenShift Virtualization now available across all major public cloud providers, positioning itself as a key partner for South Asian enterprises...

Job Positions

The University of Hong Kong, China

Job Title: Associate Professor/Assistant Professor of Microelectronics

Description: Applications are invited for appointment as Tenure-Track Associate Professor/Assistant Professor of Microelectronics in the Department of Mechanical Engineering (Ref.: 531059), to commence as soon as possible, on a three-year fixed-term basis, with the possibility of renewal and consideration for tenure before the expiry of a second three-year fixed-term contract. Applicants should possess a Ph.D. degree in a related engineering field, with an excellent research record. Candidates with industry experience or strong connections to the industry are preferred. The appointee is expected to conduct frontier research in next-generation microelectronics technology, deliver high-quality teaching to undergraduate and postgraduate students, engage in knowledge transfer activities, and provide administrative support to the University/Faculty/Department. He/She will also engage in unparalleled opportunities to interact with industrial partners and help reshape and elevate the microelectronics industry in one of the world's fastest-growing information, https://engineeroxy.com/associate-professorassistant-professor-of-microelectronics,i 14599.html.

University of Victoria, Canada

Job Title: Research Stream Faculty Positions at the Intersection of Software Engineering and AI

Description: We invite applications from talented scholars for one of four tenure-track positions at the assistant professor level working at the intersection of Software Engineering and AI, to commence January 1, 2026, or soon thereafter. Preferred: Prior teaching experience; Prior student supervision or mentoring; Evidence of collaboration and professionalism in academic environments; Complementary expertise to current faculty; Engagement with Generative AI and its

impact on SE practices. For more information, please refer to https://polytechnicpositions.com/research-stream-faculty-positions-at-the-intersection-of-software-engineering-and-ai,i13801.html.

Drexel University, US

Job Title: Assistant/Associate Professor of Information Science

Description: The Information Science Department invites applications with expertise in one or more specialized areas of information science at the rank of assistant or associate professor. Following the University's newly approved Non-Tenure-Track Full-Time Faculty Policy, the initial contract is for 2–3 years, and reappointment terms are typically longer. The University also offers numerous professional development opportunities for teachers, such as programming from the Teaching and Learning Center. Required Qualifications: Minimum of Master's Degree; Experience in teaching in both on-campus and online environments; Expertise in one or more specialized areas of information science, including computing security, information systems, and other areas relevant to our department's course programs; Broad knowledge in the cutting edge of information science and interest in promoting information science to a wide audience; A vision for interdisciplinary information science education in the century. For more information, please https://facultyvacancies.com/assistantassociate-professor-of-information-science,i42 319.html.

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