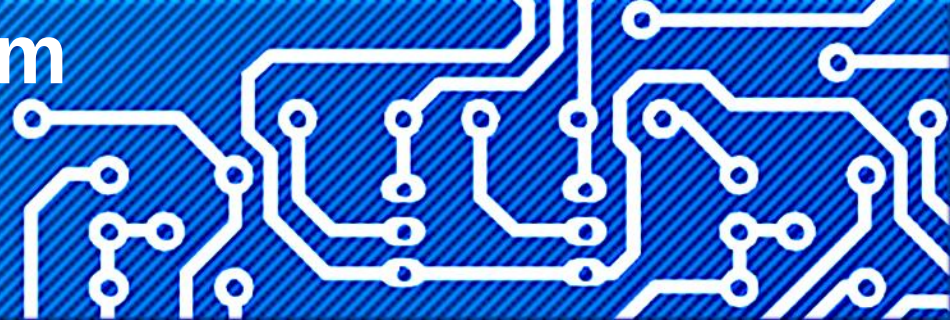


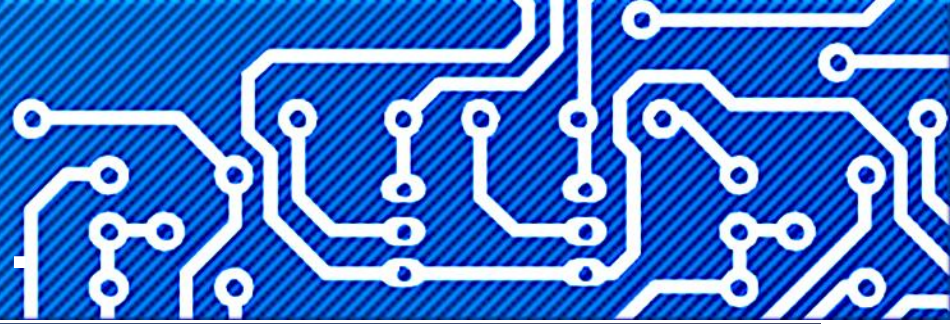


Welcome to the 2023 ACM International Symposium on Physical Design

David Chinnery (Siemens EDA)

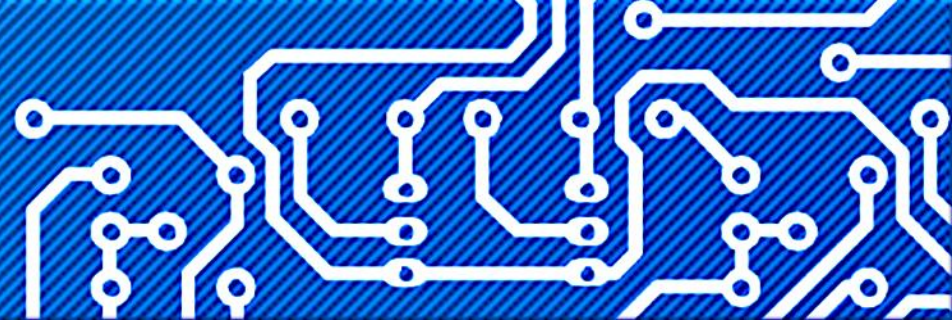
ISPD 2023 General Chair

Wish we'd meet
in SF at the bay ..



©Eleyda Rodriguez

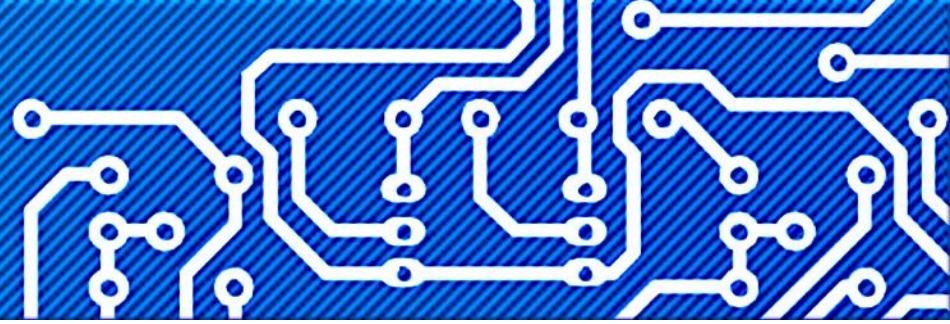
ISPD Online Timeline



- 2019 San Francisco was in person!
- ✗ 2020 Taiwan skipped, papers published
- 2021 Online with 167 attendees
- 2022 Planned for Banff in Canada
→ Online with 196 attendees
- 2023 Online with 216+ attendees
- 2024 Taiwan, finally!

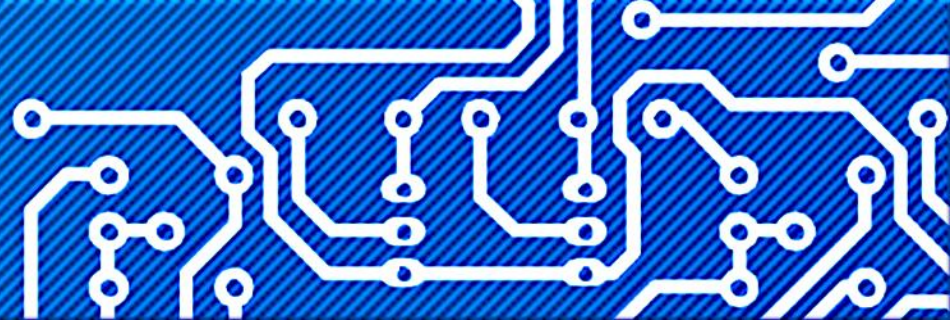


Symposium Logistics



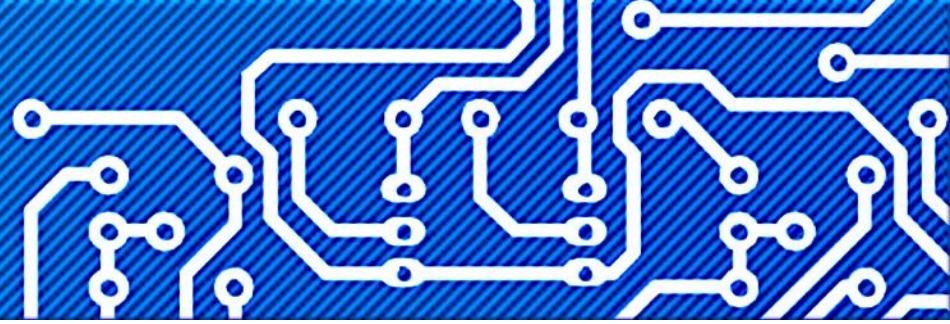
- 5 sessions each day, Monday, Tuesday, and Wednesday, starting at 7:00am PDT, 16:00 CET, 22:00 China/Taiwan
- Each day has a keynote then paper sessions in Zoom
- Social chit-chat in gather.town at the end of each day
- Talks are on YouTube, except for keynotes and contest
- The proceedings, slides and links to the videos are at www.ispd.cc/?page=program
- Links and passwords for Zoom, YouTube, gather.town, and to get the slides and proceedings were emailed
- Papers will be available in the ACM Digital Library www.sigda.org/publications/ispd-2023-toc/

Session Format



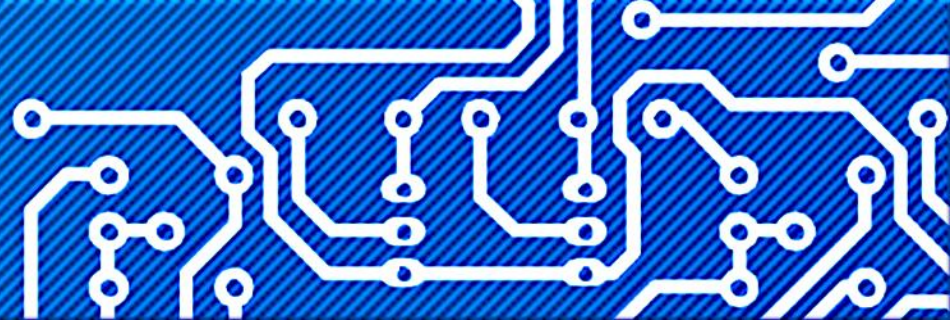
- We suggest that you watch the longer videos on YouTube before the sessions.
- Paper and panel sessions: 5 minute summary videos for each talk, followed by live discussion
- Lifetime achievement session has three 20 minute presentations + 5 minute discussions
- Keynotes have a 40 minute presentation then 10 minutes discussion – not on YouTube!

Technical Suggestions



- Check microphone and camera before you connect
- Please use your full name in Zoom and gather.town
- Unless you're the chair, speaker, or asking question:
 - Keep microphone off to avoid background noise
 - Keep camera off to improve video quality
- Have either Zoom or gather.town running, not both
- During talks, you can ask questions in the Zoom chat. Session chairs can ask these during discussion time.
- Between sessions, please feel free to chat in Zoom, Zoom break-out rooms, and gather.town.

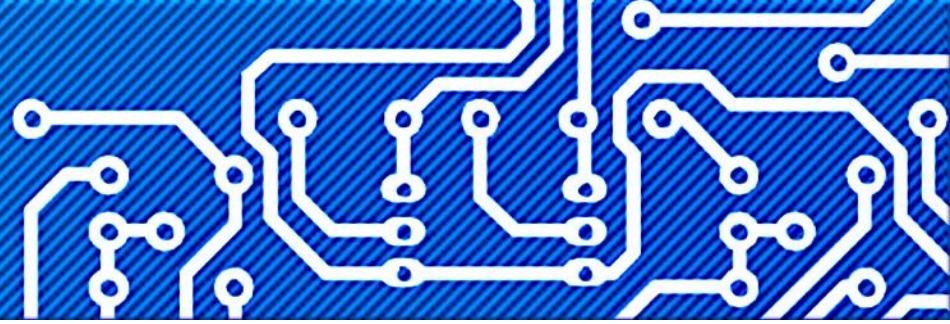
Award: Lifetime Achievement



- 2023 Lifetime Achievement Award goes to Professor Malgorzata Marek-Sadowska for her contributions in physical design and the broader field.
- She is the first woman to receive the ISPD lifetime achievement award.
- Congratulations from all of us!

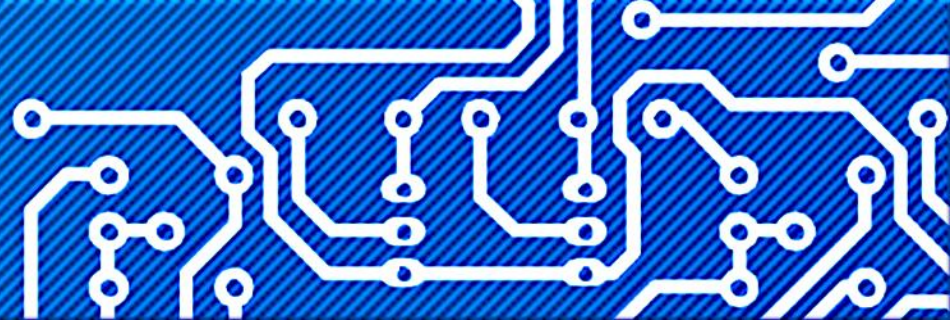


Technical Program



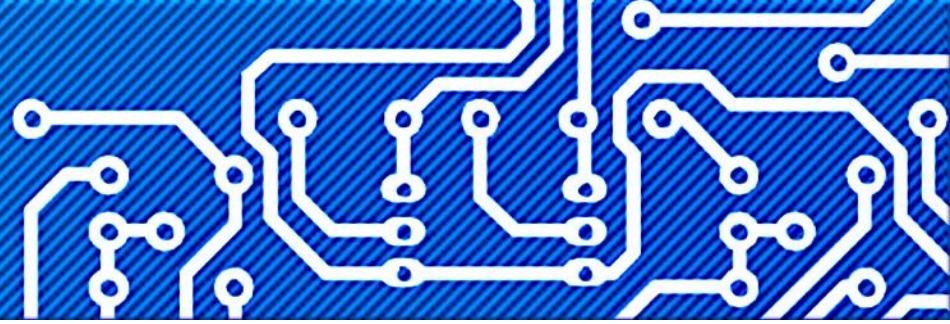
- ISPD 2023 submission summary
 - 34 abstracts submitted and 25 papers reviewed
 - Double-blind review process and virtual TPC meeting
 - 13 papers accepted with 2 best paper candidates
- We also have 3 keynotes, 22 invited talks, 3 papers on AI from Professor Marek-Sadowska's former students, and 5 panelists on EDA for domain specific computing.
- Topics include: 3D ICs, placement, routing, reliability, analog design automation, hardware acceleration, hardware security, and quantum computing.

Keynotes



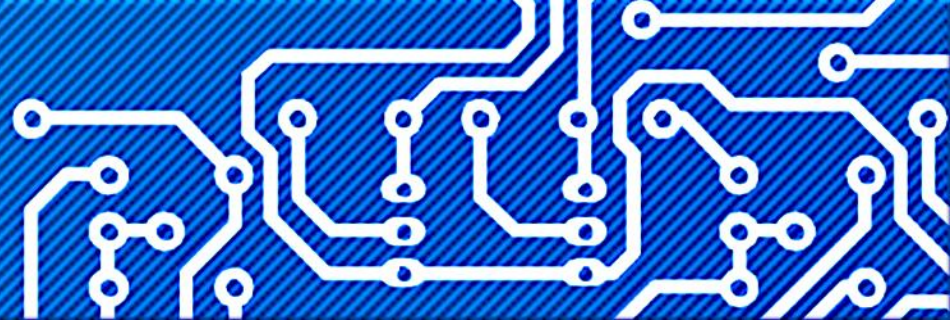
- **Monday:** Automated Design of Chiplets, Alberto Sangiovanni-Vincentelli (University of California at Berkeley)
- **Tuesday:** Immersion and EUV Lithography: Two Pillars to Sustain Single-Digit Nanometer Nodes, Burn J. Lin (National Tsing Hua University)
- **Wednesday:** Neural Operators for Solving PDEs and Inverse Design, Anima Anandkumar (NVIDIA / Caltech)

Best Paper Candidates



- Session 2: **FastPass: Fast Pin Access Analysis with Incremental SAT Solving**
Fangzhou Wang, Jinwei Liu, Evangeline F. Y. Young
(The Chinese University of Hong Kong)
- Session 8: **Placement Initialization via Sequential Subspace Optimization with Sphere Constraints**
Pengwen Chen, Chung-Kuan Cheng, Albert Chern,
Chester Holtz, Aoxi Li, Yucheng Wang
(National Chung Hsing University,
University of California San Diego)
- Iris will announce the winner in the last session.

Organizing Committee



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Leda Technology



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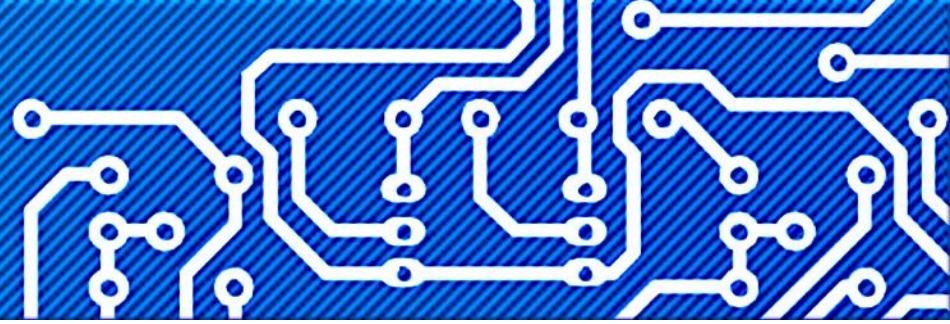


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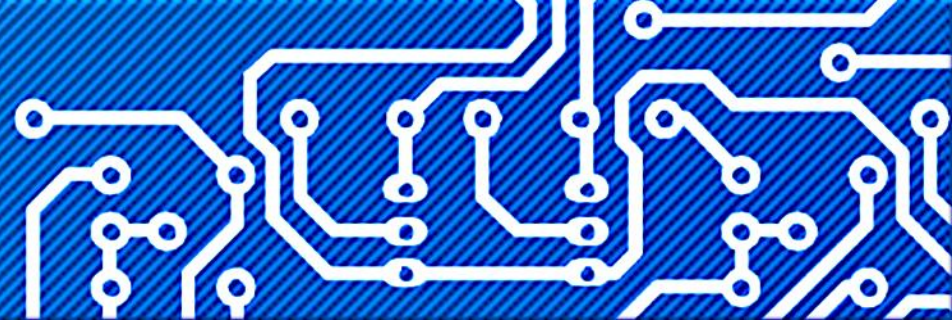
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March 26–29, 2023
Virtual Event, USA

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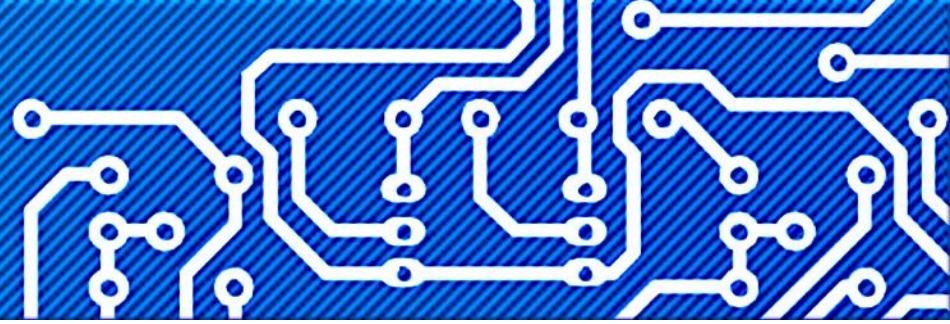
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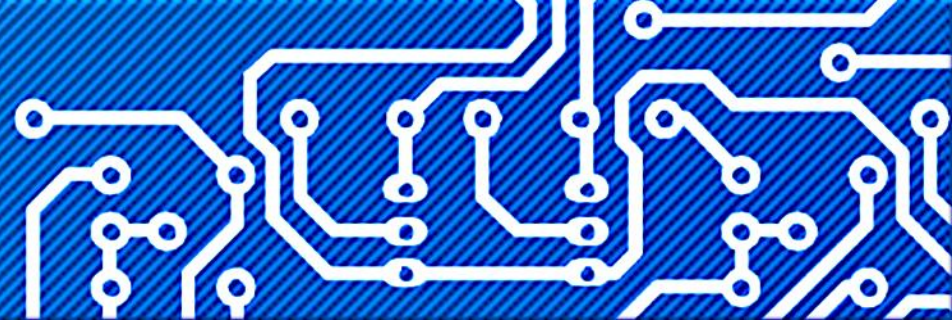
Additional Reviewers



Ai Ger
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Chun-Hao Lai
Donghao Fang
Erick Chao
Fangzhou Wang
Hailiang Hu
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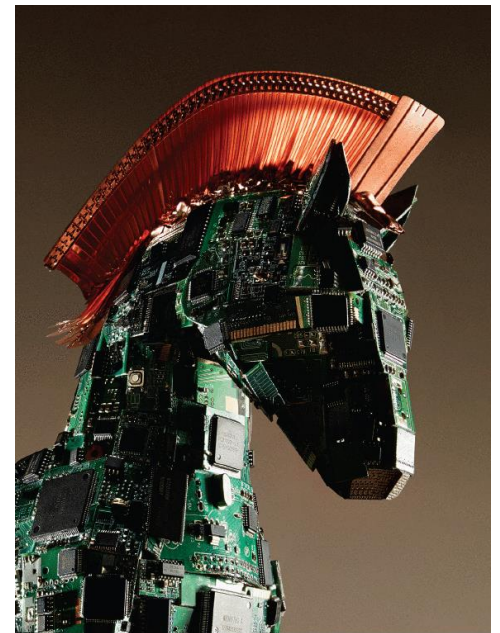
Peiyu Liao
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Yen-Yu Chen
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Ziyi Wang

ISPD 2023 Contest

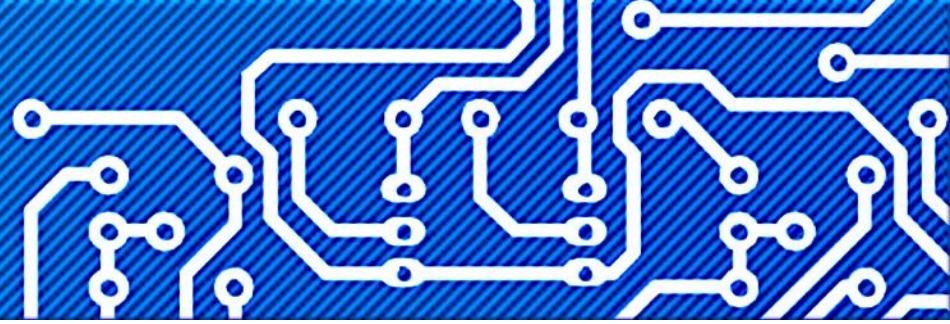


- The 2023 contest is on hardware security – layout design closure to prevent Trojan horse insertion.
- Session 15 on Wednesday will give an overview of the contest, the teams, and the contest results.

- **Organizers:** Mohammad Eslami¹, Johann Knechtel², Ozgur Sinanoglu², Ramesh Karri³, Samuel Pagliarini¹
¹Tallinn University of Technology, Estonia
²New York University Abu Dhabi, UAE
³New York University, USA



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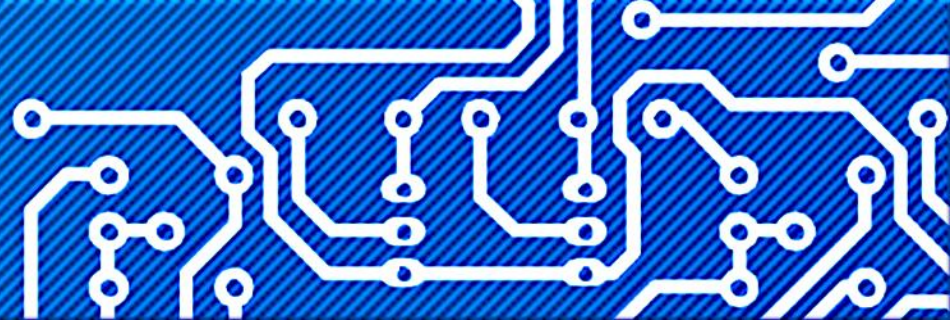


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A big thank you!



My thanks to all of you for making this a great conference:

- Speakers, sessions chairs, and all of the attendees
- Organizing committee and steering committee members
- Technical program committee and additional reviewers
- ISPD 2023 contest organizers
- ACM, particularly the folks behind the scenes who helped
- Sheridan Communications for help with the proceedings
- IEEE and our corporate sponsors
- We are a community. Your great research and contributions make all this possible.
- A warm welcome to you all!