Welcome to the 2024 ACM International Symposium on Physical Design

Iris Hui-Ru Jiang (National Taiwan University)
ISPD 2024 General Chair
ISPD 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 239 attendees
• 2024 Taiwan, finally!
• 16 sessions across 3 days
  • Mar. 13-15, Wednesday, Thursday, Friday
• Starts each day at 8:30am in Taipei time
• First session of each day is a keynote, then paper sessions.
• All presentations will be in person.
• After conference, they will be available on YouTube
• Slide PDFs will be available at www.ispd.cc/?page=program
• Papers will be available around mid-March in the ACM Digital Library
• Paper sessions:
  • The session chair introduces the session topic and themself.
  • The session chair introduces each speaker with their bio, maximum of 1 minute.
  • Regular talks are 12 minutes in length, with 5 minutes for questions.
  • Budget one extra minute for transitions between speakers.
  • Extra discussions related to the session topic will be at the end of the session in a panel style, in which all speakers can respond to questions.

• Keynotes: 35 to 40 min presentation, followed by Q&A
• There is no break between the keynote sessions and the following session on Thursday and Friday, so the handover there needs to be quick.
• For other sessions, there is 10-to-20-minute breaks between sessions
• We suggest speakers and session chair arrive at the session room during the break before the session.
  • Update and test the slides
• 2024 Lifetime Achievement Award goes to Professor Martin D. F. Wong for his pioneering contributions in the algorithmic aspects of physical design.

• Congratulations from all of us!

• Commemoration session: 15:30 - 17:30, Thursday
• ISPD 2024 submission summary
  • 62 abstracts submitted and 48 papers reviewed
  • Double-blind review process and virtual TPC meeting
  • 18 papers accepted with 2 best paper candidates
• We also have 3 keynotes, 16 invited talks, 6 panelists on EDA Challenges at Advanced Technology Nodes, and 4 talks from Professor Wong’s labmate and former students.
• Topics: partitioning and clustering, placement and legalization, timing and power optimization, reliability (IR drop), 3D ICs, analog design automation.
• Techniques: advanced mathematical programming, satisfiability problem solving, GPU acceleration, and machine learning.
• **Wednesday:**
  • Engineering the Future of IC Design with AI, Ruchir Puri (IBM Research)

• **Thursday:**
  • Physical Design Challenges in Modern Heterogeneous Integration, Yao-Wen Chang (National Taiwan University)

• **Friday:**
  • Computing Architecture for Large-Language Models (LLMs) and Large Multimodal Models (LMMs), Bor-Sung Liang (MediaTek)
Best Paper Candidates

• Session 9: **IncreMacro: Incremental Macro Placement Refinement**
  • Yuan Pu, Tinghuan Chen, Zhuolun He, Chen Bai, Haisheng Zheng, Yibo Lin and Bei Yu (The Chinese University of Hong Kong, Shanghai AI Laboratory, Peking University)

• Session 10: **Novel Transformer Model Based Clustering Method for Standard Cell Design Automation**
  • Chia-Tung Ho, Ajay Chandna, David Guan, Alvin Ho, Minsoo Kim, Yaguang Li and Haoxing Ren (Nvidia)

• Gracieli will announce the winner in the last session
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Xiaohan Gao
Yifan Chen
Yuan Pu
Yuxiang Zhao
Yuyang Ye
Yu Zhang
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Ziyi Wang
ISPD 2024 Contest

• The 2024 contest is on GPU/ML-Enhanced Large Scale Global Routing.
• Session 16 on Friday will give an overview of the contest, the teams, and the contest results.
• 52 teams participated!
• Organizers:
  Rongjian Liang, Anthony Agnesina, Haoxing Ren
Sponsors

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  - Gold
  - Silver
- Institutional Donor
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 2024 contest organizers
• ACM, particularly the folks behind the scenes who helped
• Sheridan Communications for help with the proceedings
• IEEE, our corporate sponsors, EECS college @ NTU
• We are a community. Your great research and contributions make all this possible.
• A warm welcome to you all!
Banquet

• 18:30 – 20:30, Thursday
• Shuttle bus departure at 17:50
• Bring your badge and banquet ticket
• 2F, LEO, Le Meridien Taipei
Social Tour

- 12:40 - 20:00, Friday
- Gather time: 12:40 @ registration desk
  - Bring your badge and ticket
- Northeastern coast (Geopark) + Yangmingshan Hot Spring + dinner
- Must wear swimsuit + swim cap to enjoy hot spring
- Casual/walking shoes
- Umbrella
- A change of clothes
The Secret of Your Badge