

# 22nd ACM/IEEE



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# International Workshop on System-Level Interconnect Problems and Pathfinding (SLIP<sup>2</sup>)

Co-located with ACM/IEEE Intl. Conf. on Computer-Aided Design

November 5, 2020

San Diego, California, USA

Co-sponsored by ACM SIGDA and IEEE CEDA (pending)

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The technical goal of the workshop is to (1) identify fundamental problems, and (2) foster new pathfinding of design, analysis, and optimization of interconnect and communication fabrics in electronic systems. **Special emphases this year are predictive system interconnect modeling technologies, and novel interconnect technologies and architectures for a beyond-Moore era.** Further, a more interactive, workshop-like tone and format - recalling earlier editions of the SLIP workshop - is a goal for SLIP<sup>2</sup> this year.

Technical topics include but are not limited to:

- Learning and predictive models for interconnect at various IC and system design stages
- Roadmapping and pathfinding of interconnect technology and architectures
- Roadmapping and pathfinding of chip-to-chip interconnect, chiplets, and chip-package interfaces
- System-level design for FPGAs, NoCs, reconfigurable systems

- 2.5D and 3D-integrated system interconnect optimization, projection and pathfinding
- Design, analysis, and (co)optimization of power and clock distribution networks
- Topologies and fabrics of multi- and many-core architectures
- Predictive models for power and performance of system-level interconnects
- Interconnects in social, genetic, and biological systems
- Interconnects in complex networks and high-performance computing
- Interconnects in quantum architectures
- System-level interconnect reliability, aging, thermal, yield and cost issues
- Bio-inspired connectionist systems, such as artificial neural networks

#### Format:

The workshop includes keynotes, regular paper sessions, interactive panels, tutorials, invited talks, and interactive poster sessions.

#### Keynote Talk:

To be determined.

#### Student Awards:

Student Awards may be available. Please check the website for more information.

#### Submission:

We invite authors to submit papers of 6 to 8 pages, double-columned, 9pt or 10pt font in ACM proceedings format available at <https://www.acm.org/publications/proceedings-template>

To permit double blind review, all papers must remove author information (submissions with author information will be rejected). Authors should submit papers electronically: <https://easychair.org/conferences/?conf=slip2>

#### Important Dates:

Abstract Registration: August 14, 2020

Paper Submission: August 21, 2020

Author Notification: September 14, 2020

Final Version Upload: October 2, 2020