Performance **2021**

The conference will start at
9.00am, NYC time
15.00, Milan time

Opening session

Danilo Ardagna, Politecnico di Milano
General Chair

PoliMI Campus

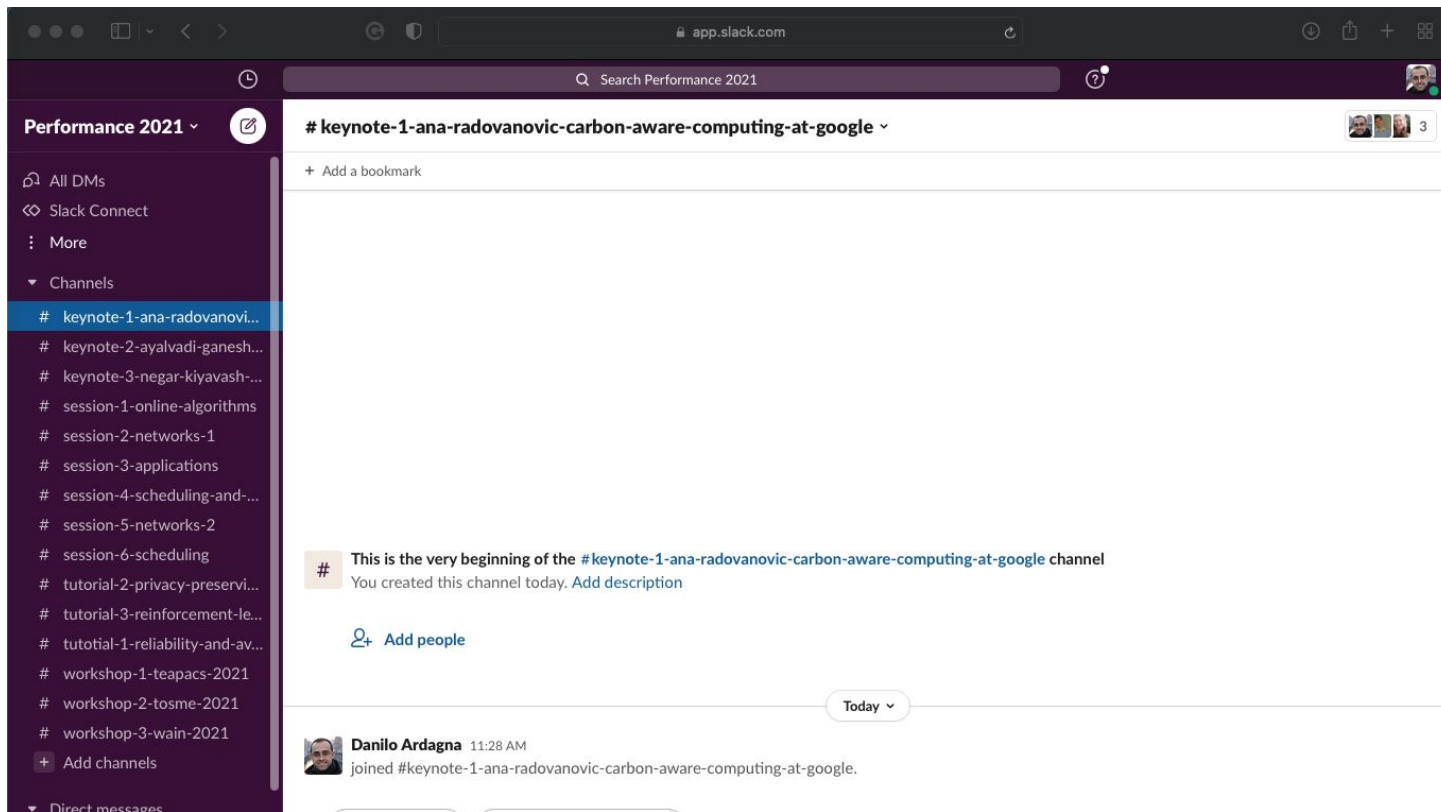# Online Conference, November 8-12

- Authors will give a live presentation (or their video will be played on-demand) during the sessions

- 5 minutes live Q&A will follow

- Slack channels for discussion of papers, tutorials, and workshops

- Breakout rooms for meeting the authors at the end of each session

Follow the conference also afterwards on Slack

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Thanks

TPC Chairs: Mariana Olvera-Cravioto (University of North Carolina), Vishal Misra (Columbia University), and Adam Wierman (Caltech)

Workshops Chairs: Evgenia Smirni (College of William and Mary)

Publication Chair: Zhenhua Liu (Stony Brook University)

Tutorials Chairs: Michela Meo, Marco Mellia, Luca Vassio (Politecnico di Torino)

Publicity Chairs: Cristina Rottondi (Politecnico Torino), Weina Wang (Carnegie Mellon University), Manjesh Kumar Hanawal (IIT Bombay), Marco Paolieri (University of Southern California), Daniel Sadoc Menasche (Federal University of Rio de Janeiro)

Thanks

Travel grant Chairs: Anton Braverman (Kellogg, Northwestern Univ.) Marco Gribaudo (Politecnico di Milano), Riccardo Lancellotti (Università di Modena e Reggio Emilia), Ana Paula Couto da Silva (Universidade Federal de Minas Gerais)

Finance Chairs: Sonia Pezzali (Politecnico di Milano)

Local Chairs: Maria Francolino (Politecnico di Milano)

Web Chairs: Federica Filippini, Hamta Sedghani, Gianmarco Accordi, Manuel Trivilino (Politecnico di Milano)

Special Thanks: Mark Squillante (IBM Research), Giuliano Casale (Imperial College London), Giuseppe Serazzi (Politecnico di Milano)

Satellite Events

Tutorials - Monday

- Kishor Trivedi. Reliability and Availability of Hardware-Software Systems
- Martino Trevisan, Luca Vassio. Privacy-Preserving Data Processing
- Francesco Lo Presti, Gabriele Russo Russo, Valeria Cardellini. Reinforcement Learning for Run-Time Performance Management in the Cloud/Edge

Workshops - Friday

- TOSME 2021 – Tools for Stochastic Modelling and Evaluation
- TeaPACS 2021 – 1st International Workshop on Teaching Performance Analysis of Computer Systems
- WAIN 2021 – 3rd International Workshop on AI in Networks and Distributed Systems

Local Event - Wednesday end of the day

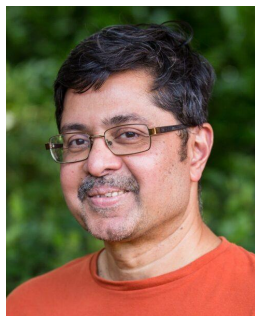- Salvatore Distefano. *Ongoing activities of the Italian Performance Community*

Meet the Star Event - Friday

Event organized for PhD students and early Post-docs: feedback on ongoing work

Ana Radovanovic

Ayalvadi Ganesh

Negar Kiyavash

Leandros Tassiulas
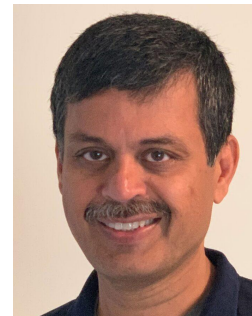
R. Srikant

Registrations open until Wednesday at 14.00 NYC, 20.00 Milan

Technical Program

Vishal Misra, Columbia University,
TPC Co-Chair

Reviewing Process

- 82 submissions evaluated through a double-blind review process. (15% smaller than last year.)

- Change this year: Soft tracking of papers into Learning / Measurement & Applied Modeling / Systems / Theory tracks for review.

- All papers received at least three reviews from PC members associated with the track(s) identified

- 22 full papers were selected leading to 26.8% acceptance rate + 5 short papers. (These are in-line with historic numbers.)

Reviewing Process - Tracking

Theory: 40 submitted, 14 accepted   35% acceptance rate
Systems: 17 submitted, 3 accepted   17% acceptance rate
Meas. & Modeling: 16 submitted, 2 accepted   12.5% acceptance rate
Learning: 9 submitted, 4 accepted   44% acceptance rate

- Tracking allows us to expose differences and understand trends in the community.

- Work to study reasons behind differing acceptance rates across areas is needed.

Reviewing Process - Authors

This had a plot of the geography last time...

Technical Program

Monday

- Tutorials

Tuesday

- Session 1: Online Algorithms
- Keynote: Ana Radovanovic
- Session 3: Networks 1

Wednesday

- Session 3: Applications
- Keynote: Ayalvadi Ganesh
- Session 4: Scheduling & Queueing

Thursday

- Session 5: Networks 2
- Keynote: Negar Kiyavash
- Session 6: Scheduling

Friday

- Workshops - parallel session
- Meet the Star

Keynotes

- Tuesday: Ana Radovanovic
  Carbon Aware Computing at Google

- Wednesday: Ayalvadi Ganesh
  Collective decision-making

- Thursday: Negar Kiyavash
  *Database alignment: fundamental limits
  and efficient algorithms*
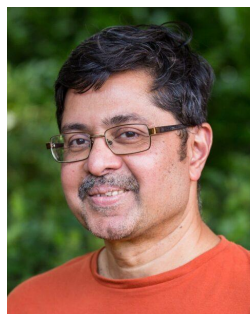
Best paper awards

Best paper award:

Gayane Vardoyan, Matthew Skrzypczyk, Stephanie Wehner. *On the Quantum Performance Evaluation of Two Distributed Quantum Architectures* - **Session 3: Applications, 15:00 Milan (9:00 New York)**

Stephen S. Lavenberg Best student paper award:

Sushil Mahavir Varma, Siva Theja Maguluri. *A Heavy Traffic Theory of Two-Sided Queues* - **Session 4: Scheduling & Queueing, 18:00 Milan (12:00 New York).**

Many Thanks

- We second the General Chair in thanking all of those he thanked for their diligent work

- We are also particularly indebted to Danilo himself. He performed way beyond the call of duty of a general chair in every aspect of the conference's organisation

- We also greatly appreciate the continual advice and reminders we got from Mark Squillante who was the overall guide to the whole process