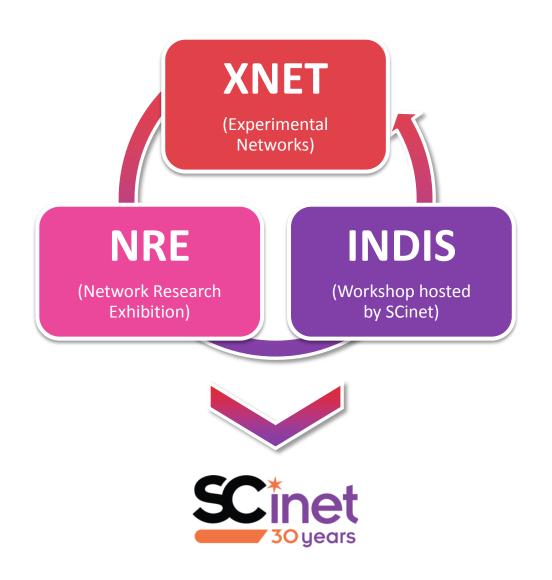


# INDIS Workshop Welcome Message

November 12, 2020 • Everywhere We Are



## 7<sup>th</sup> International Workshop on Innovating the Network for Data-Intensive Science



### Contact us via: <a href="mailto:scinet.supercomputing.org">scinet.supercomputing.org</a>

### INDIS 2020 – Who are We

### **Co-Chairs and Workshop Co-Organizers:**

- Michelle Zhu, Montclair State University, USA
- Sarah M. Neuwirth, Heidelberg University, Germany
- Mariam Kiran, ESnet, Lawrence Berkeley National Laboratory, USA
- + 29 Program Committee Members from all over the world

### **SCinet Team Collaboration Driving the Future Innovation**

- XNET pushes the boundaries of network technologies and sets the stage for SCinet's continuous evolution.
- NRE empowers researchers, computer scientists, and network engineers to experiment using the state-of-the-art SCinet network.
- INDIS serves as the academic forum and provides a stage for SCinet to discuss state-of-the-art, cutting edge, and future network technologies with researchers and experts.



### In Memoriam of Malathi Veeraraghavan

#### **Milestones**

- University of Virginia, 2003-2020, Professor of Electrical and Computer Engineering
- > Polytechnic University, Brooklyn, New York, 1999-2002, Associate Professor
- > Bell Laboratories, 1988-1998, Distinguished Member of Technical Staff
- Ph.D. Duke University, 1988
- M.S. Duke University, 1985
- **B.S. Indian Institute of Technology, Madras, 1984**



INDIS Workshop Co-Chair in 2016 and 2017 Thank you for your amazing work ethics and contributions!

#### **Achievements**

- Won over \$17 million dollars in competitive research funding
- Graduated 13 PhD students and 16 Master's students
- Mentored six postdoctoral associates and research scientists
- Co-authored 30 patents and over 200 refereed research publications in journals, conferences and workshops
- Received six best paper awards, including one last year



**Dr. Malathi Veeraraghavan** *Champion of Ideas and Experiences* 



## **INDIS 2020 Workshop Program – A Full Day of Inspiration**



- > 10:00am Welcome Message (Live)
- > 10:05am A Brief History of INDIS (Video)
- 10:10am Keynote I: "Grand" Challenges for a Science Mission Network (Live)
- > 10:55am Introduction to SCinet (Video)
- 11:00am SCinet Architecture Past, Present, Future (Video)
- > **11:05am** XNET: Panel Introduction (*Live*)
- > 11:10am XNET: Lightning Talks (Live)
- 11:30am XNET: Panel Discussion (Live)
- > 11:55am INDIS "Morning" Break
- > 12:10pm Network Research Exhibition: An Introduction (Live)
- 12:15pm NRE Demo Talk I: P4 Experimental Networks for the Global Research Platform (Live)
- 12:35pm NRE Demo Talk II: Advanced Data Algorithms and Architectures for Security Monitoring (Live)
- 12:55pm Paper 1: Using P4 and RDMA to collect Telemetry Data (Video + Live Q&A)
- O1:20pm Paper 2: Application Aware Software Defined Flows of Workflow Ensembles (Video + Live Q&A)

- > 01:45pm INDIS "Lunch" Break
- O2:30pm Keynote 2: Enhancing Distributed Computing with Programmable and Open Optical Networks (Live)
- O3:15pm Paper 3: A Trial Deployment of a Reliable Network-Multicast Application across Internet2 (Video + Live Q&A)
- O3:40pm Paper 4: ROBIN: A Next-Generation High-Performance Data Service Platform (Video + Live Q&A)
- O4:05pm Paper 5: The NetSage Measurement Framework: Design, Development, and Discoveries (Video + Live Q&A)
- > 04:30pm INDIS "Afternoon" Break
- O4:45pm Invited Talk: AI for Networking: the Engineering Perspective (Live)
- **05:15pm** Paper 6: An Evaluation of Ethernet Performance for Scientific Workloads (*Video + Live Q&A*)
- 05:40pm Paper 7: Computing Bottleneck Structures at Scale for High-Precision Network Performance Analysis (Video + Live Q&A)
- O6:05pm Awards Ceremony and Closing Remarks (Live)
- > 06:30pm 1st Virtual Happy Hour (Zoom Meeting)

### All times are in Eastern Standard Time (EST).