

2022 IEEE International Symposium on Local and Metropolitan Area Networks (LANMAN 2022)

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11 – 12 July 2022**



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IEEE LANMAN 2022

The 28th IEEE International Symposium on Local and Metropolitan Area Networks
11-12 July 2022 – Virtual Conference

Day 1 – Monday July 11, 2022	
Time	Event
09:30 - 09:45	Opening and Welcome
09:45 - 10:45	Keynote #1: Networking for Big Data: Theory, Algorithms and Applications...N/A Edmund Yeh (Northeastern University)
11:00 - 11:45	Invited Talk #1: Optimizing Contributions to Distributed, Networked Learning...N/A Carlee Joe-Wong (Carnegie Mellon University)
11:55 - 12:45	Session 1: Routing Protocols 1. THORP: Choosing Ordered Neighbors to Attain Efficient Loop-Free Minimum-Hop Routing...1 J. J. Garcia-Luna-Aceves (University of California at Santa Cruz, USA) 2. Distance Vector Routing in Partitioned Networks...8 Ammar Farooq and Murat Yuksel (University of Central Florida, USA)
14:00 - 14:45	Invited Talk #2: The Hyper-Converged Programmable Gateway in Alibaba Edge Cloud...N/A Hongqiang Liu (Alibaba Group)
15:00 - 15:50	Session 2: Edge and wireless networking 3. Service Mesh Controller for Cooperative Load Balancing among Neighboring Edge Servers...15 Toru Furusawa (The University of Tokyo & Toyota Motor Corporation, Japan); Hiroshi Abe and Kazuya Okada (Toyota Motor Corporation, Japan); Akihiro Nakao (The University of Tokyo, Japan)

	<p>4. Exploring Performance Limits on Proactive Fair Scheduling for mmWave WLANs...21</p> <p>Ang Deng, Yuchen Liu and Douglas Blough (Georgia Institute of Technology, USA)</p>
16:00 - 16:45	<p>Invited Talk #3: Untangling Interconnection in the Mobile Ecosystem</p> <p>Andra Lutu (Telefónica Research)</p>

Day 2 – Tuesday, July 12, 2022	
Time	Event
09:30 - 10:15	<p>Invited Talk #4: Machine Learning for Sketches and Sketches for Machine Learning...N/A</p> <p>Tong Yand (Peking University)</p>
10:30 - 11:15	<p>Invited Talk #5: Pushing the Limits of Learning-Augmented Adaptation in Networked Systems...N/A</p> <p>Junchen Jiang (The University of Chicago)</p>
11:15 - 13:00	<p style="text-align: center;">Poster Session</p> <ol style="list-style-type: none"> 1. POSTER: Experimenting an Edge-Cloud Computing Model on the GPULab Fed4Fire Testbed...27 Vikas Tomer; Sachin Sharma 2. POSTER: Designing a Double LoRa Connectivity for the Arduino Portenta H7...29 Daniel López Pino; Flix Freitag; Mennan Selimi 3. POSTER: Towards A Low-Cost Stateless 5G Core...31 Umakant Kulkarni; Amit Sheoran; Sonia Fahmy 4. POSTER: ML-based Cellular Service Issue Troubleshooting Using Limited Ground Truth Data...33 Xiaofeng Shi; Chen Qian; Amit Sheoran; Jia Wang 5. POSTER: Demonstrating Configuration of Software Defined Networking in Real Wireless Testbeds...35 Saish Urumkar; Gianluca Fontanesi; Avishek Nag; Sachin Sharma

<p>14:00 - 14:50</p>	<p style="text-align: center;">Session 3: ICN and SDN</p> <p>5. Access Control with Individual Key Delivery in ICN...37 Yuma Fukagawa and Noriaki Kamiyama (Ritsumeikan University, Japan)</p> <p>6. Bandwidth and Congestion Aware Routing for Wide-Area Hybrid Networks...43 Osama Abu Hamdan (University of Nevada, Reno, USA); Scotty Strachan (Nevada System of Higher Education, USA); Engin Arslan (University of Nevada, Reno, USA)</p>
<p>15:00 - 15:45</p>	<p style="text-align: center;">Invited Talk #6: Toward Practical Federated Learning...N/A Mosharaf Chowdhury (University of Michigan)</p>
<p>16:00 – 17:00</p>	<p style="text-align: center;">Keynote #2: On Open RAN Telco Analytics and Automation ...N/A Rittwik Jana (Google)</p>
<p>17:00 – 17:10</p>	<p style="text-align: center;">Closing Remarks</p>