

Day 1 February 4, 2025

Auditorium

Session 1	Session Chair	Topic	Award	Title	PI
9:30 to 10:30		AI	2148141	RINGS: Deep Generative Models for Ultra High-Dimensional Next Generation Communication Systems	Jeffrey Andrews
		AI	2148186	Collaborative Inference and Learning between Edge Swarms and the Cloud	Sandeep Chinchali
		AI	2148212	Learning-Enabled Ground and Air Integrated Networks (GAINs)	Lingjia Liu
11:00 to 12:30	Nageen Himayat	AI	2148359	Enabling Data-Driven Innovation for Next-Generation Networks Via Synthetic Data	Giulia Fanti
		AI	2148382	I-RIM: Learning based Resilient Immersive Media-Compression, Delivery, and Interaction	Shiwen Mao
		AI	2148583	Provably Robust Machine Learning for Next Generation Cellular Networks	Deepak Vasisht
1:30 to 2:30		AI	2148224	Scalable and Resilient Networked Learning Systems	Gustavo de Veciana
		AI	2148128	Enabling Wireless Edge-cloud Services via Autonomous Resource Allocation and Robust Physical Layer Technologies	Eytan Modiano
		AI	2148253	A Deep Reinforcement Learning Enabled Large-scale UAV Network with Distributed Navigation, Mobility Control, and Resilience	Yingbin Liang

Room A

Session 1	Session Chair	Topic	Award	Title	PI
9:30 to 10:30		Security	2148211	Resilience of NextG Communication Systems to Malicious Modification Attacks	Aria Nosratinia
		Security	2148293	Building Next Generation Resilient Wireless Systems from Unsecure Hardware	Sundeep Rangan
		Security	2148374	NextSec: Zero-Trust, Programmable and Verifiable Security Transformation for NextG	Guofei Gu
11:00 to 12:30	Rath Vannithamby	mmw	2148251	Resilient and Low-Latency Networks for Situation Awareness in the Factory of the Future	Moe Win
		mmw	2148271	Resilient mmWave Networks via Distributed In-Surface Computing (mmRISC)	Kaushik Sengupta
		mmw	2148303	Massive Extended-Array Transceivers for Robust Scaling of All-Digital mmWave MIMO	Upamanyu Madhow
1:30 to 2:30		mmw	2148400	Just-in-Time Security: Adaptive Physical-Layer Security for NextG Low-Latency mmWave Wireless Networks	Matthieu Bloch
		mmw	2146838	Ensuring Reliability in mmWave Networks	Christina Fragouli
		mmw	2147955	WISECOM - Wireless Integrated Sensing, Learning and Communication Networks	Nuria Gonzalez Prelcic
		mmw	2148178	Mobility-driven Spectrum-Agile Resilient mmWave Communication Links for Unmanned Aerial Vehicle Traffic Management in the Sky	Kamesh Namuduri

Room B

Session 1	Session Chair	Topic	Award	Title	PI
9:30 to 10:30		Apps	2148177	Accelerating the NextG Protocols Definition to Code Generation with an Automatic and Secure Verification-Compilation Tool-Chain	Yan Chen
		Apps	2148209	Power Resilient NextG Data Centers	Simon Peter
		Apps	2148275	Deployable End-to-End Resilience for Critical Internet Applications via Modular Redundancy	Dan Rubenstein
11:00 to 12:30	Per Karlsson	Apps	2148315	Resilient Delivery of Real-Time Interactive Services Over NextG Compute-Dense Mobile Networks	Andreas Molisch
		MIMO	2147946	Intelligent and Resilient Virtualization of Massive MIMO Physical Layer	Lin Zhong
		MIMO	2148021	Wideband NextG Tb/s mm-Wave Communication and Networking	Ali Niknejad
1:30 to 2:30		MIMO	2148230	Reshaping the Last Mile for High Availability and Resilience	Sylvia Ratnasamy
		MIMO	2148354	Resilient Wireless Systems for Future Uplink Traffic through Cell-Free, Loosely Coordinated Access	Krishna Narayanan
		Quantum	2148132	Coding over High-Frequency for Absolute Post-Quantum Security (CHAPS)	Muriel Medard
		Quantum	2147196	Bringing Post-Quantum Cryptography to Large-Scale NextG Systems	Reza Azarderakhsh

Room C

Session 1	Session Chair	Topic	Award	Title	PI
9:30 to 10:30		Edge	2148104	REALTIME: Resilient Edge-cloud Autonomous Learning with Timely Inferences	Anand Sarwate
		Edge	2148182	Walk For Resiliency & Privacy: A Random Walk Framework for Learning at the Edge	Salim El Rouayheb
		Edge	2148301	Language-Agnostic Resilience Engineering at the Edge with WebAssembly	Heather Miller
11:00 to 12:30	Nada Golmie	Edge	2148309	Resilient Edge Networks with Data-driven Model-based Learning	Yong Liu
		Edge	2148353	Enabling Joint Sensing, Communication, and Multi-tenant Edge AI for Cooperative Perception Systems	Kaikai Liu
		Edge	2148358	Resilient Edge Ecosystem for Collaborative and Trustworthy Disaster Response (REsCue)	Satyajayant Misra
1:30 to 2:30		Spectrum	2148313	LARA: Layering for Active Resiliency and Awareness in Next-generation Wireless Networks	Tara Javidi
		Spectrum	2148183	Robust and Resilient Wireless Networks using Next Generation Spectrum	Randall Berry
		Spectrum	2146754	Internet of Things Resilience through Spectrum-Agile Circuits, Learning-Based Communications and Thermal Hardware Security	Marvin Onabajo
		Spectrum	2148318	Harnessing the Complexity of Modern Electromagnetic Environments for Resilient Wireless Communications	Steven Anlage