

QSNS 2025

Quantum-Secure Networks and Systems



QSNS2025 will be co-located with the 30th IEEE Symposium on Computers and Communications, July 2nd, 2025, Bologna, Italy.

QSNS2025 workshop Agenda



Funded by
the European Union

2 nd July 2025		
QSNS Session 1: Room 5		
14:00 – 14:15	Workshop introduction	
14:15 – 14:30	Optimizing Secure Elements Implementation Methods for a Seamless Post-Quantum Transition	E. Camacho-Ruiz, P. Navarro-Torrero, M.C. Martínez-Rodríguez, P. Brox
14:30 – 14:45	PQ-CAN: a Framework for Simulating Post-Quantum Cryptography in Embedded Systems	M. Conti, F. Marchiori, S. Matarazzo, and M. Rubin
14:45 – 15:00	Towards Quantum-Resistant Trusted Computing: Architectures for Post-Quantum Integrity Verification Techniques	G. Donghia and A. Lioy
15:00-15:15	A Quantum-Safe Implementation of the NETCONF Protocol	L. Dominguez, A. Pastor, P.D. Muñoz, M.A.E. Forcada, and A.F. Amar
QSNS Session 2: Room 5		
16:00 – 16:15	Implementation of PQ/T Hybrid Signatures for Self-Sovereign Identity	V.Lipiäinen and E. Hieta-aho



16:15 – 16:30	Implementation of a Post-Quantum Anonymous Verifiable Credential Framework	D. Margaria, A. Pino, A. Vesco, G. D’Alconzo, A.J. Di Scala, E. Guglielmino, and C. Sanna
16:30-16:45	Onion Routing Key Distribution for QKDN	P.O. García, J. Blanco, A. Fernandez-Vilas, D.S. Blanco, M.F. Veiga, and F. Almenares
16:45-17:00	QKD-KEM: Hybrid QKD Integration into TLS with OpenSSL Providers	J. Blanco, P.O. García, D.S. Blanco, F. Almenares, A. Fernandez-Vilas, and R. Diaz-Redondo
17:00 – 17:15	A Parameter Study for LLL and BKZ with Application to Shortest Vector Problems	T. Koeppel, R. Zander, L. Henkel, and N. Tcholtchev
17:15 – 17:30	Workshop wrap-up and conclusions	

