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Italiadomani
PIANO NAZIONALE
DI RIPRESA E RESILIENZA



RESTART Spokes | *Dissemination & Exploitation Workshops*

Programmable Networks for Future Services and Media: From Vision to Practice

Spoke 4



October 30, 2025



Politecnico di Torino,
Electronics and Telecommunications Department,
Maxwell Meeting Room

09:30 – 09:40

Welcome

Prof. Gianmario Pellegrino, Adjunct Vice-Rector for
Technology Transfer at Politecnico di Torino

09:40– 10:00

Programmable Networks for Intelligent Services

- Prof. Carla Fabiana Chiasserini, PI of the SUPER Project
- Prof. Fulvio Riso, co-PI of the LEGGERO Project
Politecnico di Torino

10:00 – 10:20

Future Services and Media

Prof. Enrico Magli, PI of the FUN-Media Project,
Politecnico di Torino

10:20 – 10:50

The PROGNOSE Lab and 5G Testbed for Vehicular Communications, Services and Applications

- Prof. Carla Fabiana Chiasserini and Prof. Fulvio Riso,
Politecnico di Torino,
- Daniele Brevi, LINKS Foundation

10:50– 11:15

Coffee Break



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11:15 – 12:15

Orchestrating Programmable Networks and Service

- Offloading Resources to the Cloud or to the Edge? A Ligo-Powered Testbed
Stefano Galantino, Politecnico di Torino
- End-to-End Orchestration of Next-Generation, AI-Based Video Streaming Applications: A Proof-of-Concept
Fabio Busacca, University of Catania
- IDAGO: Orchestrating Next-Generation Services over the Distributed Compute Continuum
Alessandro Mauro, University "Federico II", Naples
- RAN Service Management and Orchestration (SMO) function and RAN Intelligent Controller
Sergio Benco, TIM

12:15 – 13:15

Lunch

13:15 – 14:15

Programmable Networks: Core Technologies (I)

- Enhancing SD-WAN Efficiency: Seamless and Symmetric Rerouting with Extended BGP for Dynamic Link Quality Assessment
Vincenzo Luciano Lucrezia, TIESSE
- Target Wake Time Scheduling for Time-sensitive and Energy-efficient Wi-Fi Networks
Fabio Busacca, University of Catania



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Programmable Networks: Core Technologies (II)

- Unsupervised Concept Drift Detection from Deep Learning Representations in Real-time,
Tania Cerquitelli, Politecnico di Torino
- Scaling VPN services for a massive number of users: the Linux WireGuard case
Davide Miola, Politecnico di Torino

14:15 – 14:30

Break

14:30 – 15:30

Next-generation media over networks

- The Human Digital Twin and the MEET Demo
Gulnaziye Bingol, University of Cagliari
- Learned Transcoding for Neural Image Compression
Andrea Migliorati, Politecnico di Torino
- Synthetic media detection
Stefano Tubaro, Politecnico di Milano
- Audio processing for Remote Immersive Music Experience
Mirco Pezzoli, Politecnico di Milano

15:30 – 16:00

Closing Remarks and the Next Steps