

# Summer School on 5G: ENABLING TECHNOLOGIES, OPPORTUNITIES AND RESEARCH CHALLENGES AHEAD

5 – 10 July 2021, Fully Virtual (Teams platform)

## Monday, July 5

9:00 – 10:30	5G and the Ever-Lasting Quest for Efficient Communications	Luise
11:00 – 13:00	PHY-layer technologies for 5G	Sanguinetti, Moretti
14:00 – 16:00	PHY-layer technologies for 5G	Sanguinetti, Moretti
16:30 – 18:30	Electromagnetic methodologies for 5G	Monorchio

## Tuesday, July 6

11:00 – 13:00	Cloud/Edge Computing for 5G Networks	Vallati
14:00 – 16:00	Security and privacy in 5G systems	Dini
16:30 – 18:30	SDN and NFV in the 5G era	Viridis

## Wednesday, July 7

9:00 – 13:00	System-level simulation and real-time emulation of 5G networks	Stea, Nardini
14:00 – 16:00	Artificial Intelligence for 5G Networks and Applications	Marcelloni, Ducange
16:30 – 18:30	The role of 5G on Industrial IoT	Garroppo

## Thursday, July 8

8:30 – 10:30	5G, 5.5G, and 6G Fundamentals	David Soldani (UNSW)
11:00 – 13:00	5G Deployments and Applications	Dino Flore (Qualcomm)
14:00 – 16:00	5G and UAV applications	Giordano
16:30 – 18:30	Non-terrestrial networks for 5G	Giannetti

## Friday, July 9

9:00 – 13:00	End-to-end network programmability	Procissi, Lettieri
14:00 – 16:00	Vehicle-to-Everything (V2X) Services in 5G and Beyond	Garroppo
16:30 – 18:30	Electromagnetic systems for 5G Automotive	Michel

## Saturday, July 10

9:00 – 12:00	Electronic circuits and systems for 5G Automotive V2X scenarios	Saponara
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**Monday 5 July, 9:00 – 18:30**

9:00 – 10:30 Prof. Marco Luise

**5G and the Ever-Lasting Quest for Efficient Communications**

11:00 – 13:00 Prof. Luca Sanguinetti

**PHY-layer technologies for 5G**

13:00 – 14:00 Break

14:00 – 16:00 Prof. Marco Moretti

**PHY-layer technologies for 5G**

16:30 – 18:30 Prof. Agostino Monorchio

**Electromagnetic methodologies for 5G**

**Tuesday 6 July, 11:00 – 18:30**

11:00 – 13:00 Prof. Carlo Vallati

**Cloud/Edge Computing for 5G Networks**

13:00 – 14:00 Break

14:00 – 16:00 Prof. Gianluca Dini

**Security and privacy in 5G systems**

16:30 – 18:30 Prof. Antonio Virdis

**SDN and NFV in the 5G era**

## **Wednesday 7 July, 9:00 – 18:30**

9:00 – 10:30 Prof. Giovanni Stea, Prof. Giovanni Nardini

**System-level simulation and real-time emulation of 5G networks**

11:00 – 13:00 Prof. Giovanni Stea, Prof. Giovanni Nardini

**System-level simulation and real-time emulation of 5G networks**

13:00 – 14:00 Break

14:00 – 16:00 Prof. Francesco Marcelloni, Prof. Pietro Ducange

**Artificial Intelligence for 5G Networks and Applications**

16:30 – 18:30 Prof. Rosario Garroppo

**The role of 5G on Industrial IoT**

## **Thursday 8 July, 9:00 – 18:30**

9:00 – 10:30 David Soldani, Adj. Professor, University of New South Wales, AU

**5G, 5.5G, and 6G Fundamentals**

11:00 – 13:00 Dino Flore, QUALCOMM

**5G Deployments and Applications**

13:00 – 14:00 Break

14:00 – 16:00 Prof. Stefano Giordano

**5G and UAV applications**

16:30 – 18:30 Prof. Filippo Giannetti

**Non-terrestrial networks for 5G**

**Friday 9 July, 9:00 – 18:30**

9:00 – 10:30 Prof. Gregorio Procissi, Prof. Giuseppe Lettieri

**End-to-end network programmability**

11:00 – 13:00 Prof. Gregorio Procissi, Prof. Giuseppe Lettieri

**End-to-end network programmability**

13:00 – 14:00 Break

14:00 – 16:00 Prof. Rosario Garroppo

**Vehicle-to-Everything (V2X) Services in 5G and Beyond**

16:30 – 18:30 Prof. Andrea Michel

**Electromagnetic systems for 5G Automotive**

**Saturday 10 July, 9:00 – 12:30**

9:00 – 10:30 Prof. Sergio Saponara

**Electronic circuits and systems for 5G Automotive V2X scenarios**

11:00 – 12:30 Prof. Sergio Saponara

**Electronic circuits and systems for 5G Automotive V2X scenarios**