

SPRING SCHOOL 2022

**5-8 April
2022**

Emerging and Future Communication Networks: Technologies, Architectures, and Tools

**2022, APRIL 5 - 8
8.15 A.M - 7.30 P.M**

**CENTRALESUPÉLEC
RUE JOLIOT CURIE
91190 GIF-SUR-YVETTE
FRANCE**

Program

Spring School 2022

APRIL, 5TH - 6TH

DAY 1: 5 April 2022 (3 talks)

TALK 1 - OSVALDO SIMEONE (KING'S COLLEGE LONDON, UK)

TITLE: BAYESIAN LEARNING (HOW TO LEARN) FOR COMMUNICATIONS

TALK 2 - LAURENT SCHMALEN (KARLSRUHE INSTITUTE OF TECHNOLOGY, GERMANY)

TITLE: END-TO-END DEEP LEARNING IN OPTICAL FIBER COMMUNICATIONS

TALK 3 - NIKOLAOS PAPPAS (LINKÖPING UNIVERSITY, SWEDEN)

TITLE: SEMANTICS COMMUNICATIONS FOR FUTURE WIRELESS COMMUNICATIONS

DAY 2: 6 April 2022 (3 talks)

TALK 1 - HARALD HAAS (UNIVERSITY OF STRATHCLYDE, UK)

TITLE: LIGHT-BASED COMMUNICATIONS FOR FUTURE WIRELESS COMMUNICATIONS

TALK 2 - MARCO DI RENZO (CNRS & PARIS-SACLAY UNIVERSITY, FRANCE)

TITLE: METASURFACES FOR FUTURE WIRELESS COMMUNICATIONS: FUNDAMENTALS AND APPLICATIONS

TALK 3 - LAJOS HANZO (SOUTHAMPTON UNIVERSITY, UK)

TITLE: QUANTUM COMMUNICATIONS FOR FUTURE WIRELESS COMMUNICATIONS

Program

Spring School 2022

APRIL, 7TH - 8TH

DAY 3: 7 April 2022 (4 talks)

TALK 1 - VITTORIO DEGLI ESPOSTI (UNIVERSITY OF BOLOGNA, ITALY)
TITLE: CHANNEL MODELING AND RAY TRACING FOR FUTURE WIRELESS COMMUNICATIONS – FROM MICROWAVE TO TERAHERTZ COMMUNICATIONS

TALK 2 - LUCA SANGUINETTI (UNIVERSITY OF PISA, ITALY)
TITLE: MASSIVE MIMO AND CELL-FREE MASSIVE MIMO FOR WIRELESS NETWORKS

TALK 3 - HESHAM ELSAWY (KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS, SAUDI ARABIA)
TITLE: STOCHASTIC GEOMETRY FOR HETEROGENEOUS NETWORKS MODELING, ANALYSIS, AND OPTIMIZATION

TALK 4 - ALESSIO ZAPPONE (UNIVERSITY OF CASSINO, ITALY)
TITLE: FRACTIONAL PROGRAMMING AND ENERGY EFFICIENCY OPTIMIZATION IN WIRELESS NETWORKS

DAY 4: 8 April 2022 (3 talks)

TALK 1 - MOHAMMED SLIM ALOUINI (KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, SAUDI ARABIA)
TITLE: CONNECTING THE UNCONNECTED

TALK 2 - CHRISTOS MASOUIROS (UNIVERSITY COLLEGE LONDON, UK)
TITLE: INTEGRATED SENSING AND COMMUNICATIONS FOR FUTURE WIRELESS COMMUNICATIONS

TALK 3 - GIOVANNI GERACI (POMPEU FABRA UNIVERSITY, SPAIN)
TITLE: AERIAL COMMUNICATIONS FOR FUTURE WIRELESS COMMUNICATIONS

Spring school 2022



4 DAYS OF CONFERENCE



13 SPEAKERS FROM ALL OVER THE WORLD



MENTORING SESSIONS



ONLINE AND ON SITE CONFERENCE



FREE REGISTRATION

The event is supported by the Labex DigiCosme (courses, lunches, cocktail reception and conferences)

To learn more about the [Labex DigiCosme](#), [you can go on our website](#).

Registration

Spring School 2022

CLOSING ON MARCH 13TH, 2022

The number of on site seats is limited, so to confirm registration can you please

1- Fill the registration form

2- Confirm your presence 3 weeks before the event between March 14th and 17th

If you are on the waiting list, you will receive an email on March 18 either to offer you a registration, if there is a withdrawal from the list, or to give you the access links to attend the conferences online.

Information

Spring School 2022

ACCESS CONDITION

According to the instructions in force, the access will probably be subject to the control of the vaccine passport

LANGUAGE



The event will be in English

LOCATION

CentraleSupélec
3 Rue Joliot Curie
91190 Gif-sur-Yvette
France

GUEST CONTACT

[Please contact us here](#)

PRESS CONTACT

[Please contact us here](#)

[Organization committee](#)
[Marco Di Renzo; Élie Awwad](#)