



# **Steering Committee**

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# Local Organising Committee

- Dr Anna Maria Vegni, Roma Tre University, Italy
- Dr Mauro Biagi, Sapienza University of Rome, Italy Dr Romeo Giuliano, Guglielmo Marconi University, Italy
- Dr Massimo Massaro, Roma Tre University, Italy
- Dr Andrea Petroni, Fondazione Ugo Bordoni, Italy
- Dr Cristina Ponti, Roma Tre University, Italy
- Dr Alessandro Stuart Savoia, Roma Tre University, Italy
- Dr Joaquin Perez Soler, Universitat de València, Spain

#### **Organising Committee**

#### Colloquium

- Prof A T Pham The University of Aizu, Japan
- Prof Z Xu Univ. of Science & Technology of China, China
- Prof H Le-Minh Northumbria University, UK Prof W O Popoola - The Univ. of Edinburgh, UK
- Prof J Yuan Beijing Unive. of Posts & Telecomms, China
- Prof G Farrell Technological Unive. Dublin, IE
- Prof J Zhou Ningbo University, China
- Prof S Korposh Nottingham University, UK
- Prof S Wan Nanchang Hangkong University, China
- Prof B Liu Nanchang Hangkong University, China
- Dr Q Wu Northumbria University, UK

#### Dr M Ijaz - Manchester Metropolitan Univ., UK Special Session

Profs W Gappmair and F Teschl - Graz Unive. of Techn., AT Prof B W-K Ling - Guangdong Unive. of Technology, CN Prof S Shioda - Chiba University, JP Prof F Falcone - Unive. Publica de Navarra, ES Prof A Panagopoulos - National Techn. Unive. of Athens, GR Prof J Rabadan - IDeTIC-Unive. of Las-Palams Gran Canary, ES Prof D Castanheira - Instituto de Telecomunicações, PT Prof A Silva - University of Aveiro, PT Prof A Gameiro - University of Aveiro, PT Prof S Sen - Hacettepe University, TR Prof C Masouros - University College London, UK Prof I Dayoub - Polyt. Hauts-de-France, FR Prof M Julia García - Carlos III University of Madrid, SP Dr Marco Gomes - University of Coimbra, IT Prof Rui Dinis - Nova University of Lisbon, IT, PT Dr S Rajbhandari - Strathclyde University, UK Drs H Fontes and H P Oliveira - INESC TEC, PT Dr K Mikhaylov - Univ. of Oulu, FI Dr Y Deng - King's College London, UK Dr L M Pessoa - INESC TEC, PT Dr N Paulino - FEUP, PT

Dr Q Luo - Unive. of Hertfordshire, UK

14th IEEE/IET International Symposium on **COMMUNICATION SYSTEMS, NETWORKS &** DIGITAL SIGNAL PROCESSING (CSNDSP) 17-19 July 20242, Rome, ITALY http://comlab.uniroma3.it/CSNDSP2024.php

### Venue: Sapienza University Di Rome



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Organized by:

**Italy Section** 

1st Call for Papers



Since 1998 CSNDSP has been recognised as an international forum to present and exchange research findings and discuss future research topics in the fields of communication systems, communications networks, digital signal processing and other related areas. CSNDSP offers the opportunities for researchers to participate in organising workshops, tutorials, and open discussions in upcoming research topics. CSNDSP 2024 is organized jointly by Roma Tre University and Sapienza University of Rome in Italy. The Local Organising Committee invites you to submit original high-quality papers for presentation at CSNDSP 2024, which will be held at the most beautiful and historic city of Rome, Italy. As in previous events, CSNDSP 2024 will also be hosting dedicated colloquiums and several special sessions on selected topics that you may wish to submit papers.

### Colloquium

- 9th Colloquium on Optical Wireless Communications
- 2<sup>nd</sup> Colloquium on Optical Fiber Devices and Sensing applications

### Special Session

- AI for Wireless Network Modeling and Optimization
- Cognitive Cities: Beyond the Smart City Concept
- RISs for Communication and Sensing
- Satellite and Space Communications
- Signal Processing, Machine Learning and Communications for Personal Health Monitoring
- Signal Processing, Sensing & Communication for Connected & Automated Vehicles
- Teletraffic Models, Traffic Engineering & Network Optimization
- Security & Trust in Radio Access Networks
- Advancements & Emerging Trends in Cyber Security
- Integrated sensing and communications for 6G
- Massive MIMO and millimeter Wave Communications
- Emerging Technologies for Wireless Early Warning Systems

Papers are solicited from, but not limited to the following topics:

## **Communications Systems & Theory**

Adaptive modelling Antennae Chip design for communications Coding theory & techniques Communications for disaster management Modulation/Demodulation Fading channels Filtering techniques Radio/microwave/millimetre wave comms. Noise reduction Synchronization Transmission diversity Satellite & space communications

# **Communications Protocols**

Communication standards Internet communications Internet protocols IP over ATM Routing protocols Transport control protocols

Networks & Network Management Bandwidth management and Buffering

#### **Photonics**

Free space optics Optical wireless communications High-speed devices for photonics Optical buffering Optical fibre communications Optical MEMS for lightwave networks Optical routing/Photonic networks Optical signal processing Optical switching Radio over fibre & FSO

# DSP

Adaptive signal processing Digital & multirate signal processing DSP algorithms & applications DSP implementation Multidimensional signal processing Optical signal processing Signal processing for storage VLSI for communications & DSP Al for health, smart urban environments, assistive technologies

#### Wireless Networks & Devices

# **CSNDSP2024** General Information

Contact: Dr Anna Maria Vegni - Local Organising Committee Chair: Email: annamaria.vegni@uniroma3.i

Dr S Matos - IT Lisboa, PT Dr S S-H Ling - University of Technology Sydney, AU Dr B Tan - Tampere University, FI Dr S Yoo - Coventry University, UK Dr I Moscholios - University of Peloponnese, GR Dr V Vassilakis - Unive. of York, UK Dr K Rabie - Manchester Met Unive., UK Dr R Alrawashde - Mutah University, Jordon Dr M Benjillali - INPT, Morocco Dr A Hasanat - Alhussein Bin Talal University, Jordon

# International Technical Advisory Committee

Dr A Dowhuszko, Aalto Univ., Finland Dr V Almenar, Univ. Politecnica de Valencia, Spain Dr P Ball, Oxford Brookes Univ., UK Dr J Paulo Barraca, Univ. de Aveiro/Inst. de Telecomun., Portugal Prof L Chao, Hong Kong Polytechnic Univ., Honk Kong Prof I Darwazeh, UCL, UK Dr P Diamantoulakis, AUTH, Greece Dr M Głąbowski, Poznan Univ. of Tech., Poland Prof T Kamalakis, Harokopio Univ. of Athens, Greece Dr M do Carmo Medeiros, Univ. of Coimbra, Portugal Prof I Moscholios, Univ. of Peloponnese, Greece Prof L De Nardis, Univ. of Rome La Sapienza, Italy Prof T O'Farrell, Univ. of Sheffield, UK Dr N Rodrigues, Polythecnic of Leiria, Portugal Dr A Silva, Univ. de Aveiro/Inst. de Telecomun., Portugal Dr I Soto, Santiago Univ., Chile Dr H A Suraweera, Univ. of Peradeniya, Sri Lanka Dr J Tang, Bangor University, UK Prof H Takruri, Univ. of Salford, UK

- Dr V G Vassilakis, Univ. of York, UK
- Dr P Zwierzykowski, Poznan Univ. of Tech., Poland

Channel allocation Congestion & admission controls Digital integrated services Intelligent networks Modelling and simulation techniques Network management QoS, reliability & performance modelling Queuing theory Regulatory issues Routing issues & multicasting Security & privacy Signalling, traffic control, etc. Communications for sustainability and green energy. Smartphones/Home networks/Residential Gateways Internet of things for smart living and ehealth Middleware support for smart home and health telematics services

- 5G network evolution Ad-hoc & Sensor networks Disconnected & weakly connected operation Interworking wireless & wireline networks Location-based Services & positioning MEMO & FORM systems Mobile agents Mobile computing for e-commerce Mobility management Multimedia & broadband services Multimedia QoS support & middleware Performance of end-to-end protocols Proxies & middleware Roaming System-level energy management Transport layer issues Wireless broadband mobile access Wireless LAN/WAN Wireless/mobile networked Wearable sensors/integrated micro-nano systems/home health monitoring
- Papers may be presented in the form of Oral presentations and/or Posters.
- Contributions by MPhil/PhD research students are particularly encouraged.

### Submission Dates

- Full paper: 1 March. 2024
- Notification of acceptance: 14 April 2024
- Registration & payment: until 31 May 2024
- Camera-ready: 30 April 2024

### Submission & Publication Details

- Electronic submission ONLY, through: http//edas.info
- All papers will be reviewed by at least three referees
- The manuscripts must fit IEEE conference template for publishing at IEEE-Xplore .
- . All papers will be published in the conference proceedings
- Selected papers will be published in special issues of journals (to be announced

### **Registration Details**

- Full registration
  - IEEE/IET Member 450€
    - Non-IEEE/IET Member 550€
  - Student registration
  - IEEE/IET Member 350€
    - Non-IEEE/IET Member 450€
- · Registration covers social events, lunches, coffee breaks, and paper processing charges
- Early bird registration from 31st of March to 31st of May
- Late registration after 31st of May will incur in a penalty of 100€.

# The City of Rome

Rome's history spans 28 centuries. While Roman mythology dates the founding of Rome at around 753 BC, the site has been inhabited for much longer, making it a major human settlement for almost three millennia and one of the oldest continuously occupied cities in Europe.

# For further information visit:

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