

Call for Papers – Extended Deadline 2nd March 2020

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 Prof J-P Barbot (ENSEA, France)
 Dr G Barzdins (Univ. of Latvia, Riga, Latvia)
 Dr D Benhaddou (Univ. of Houston, USA)
 Dr N Calabretta (Eindhoven Univ. of Tech., Netherland)
 Prof N Bizon (Univ. of Pitesti, Romania)
 Prof Nick Bowring (MMU, UK)
 Prof Tony Brown (Univ. of Manchester, UK)
 Dr D Careglio (UP Catalunya, Spain)
 Dr H Castel (Inst. Natio. D. Télécom., France)
 Prof L Chao (Hong Kong Polytechnic Univ., China)
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 Prof A Constantinides (Imperial College, UK)
 Prof I Darwazeh (Univ. College, London, UK)
 Dr Frank Deicke (Fraunhofer Inst. for Photonic
 Microsystems, Germany)
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 Prof I Frigyes (BME, Hungary)
 Prof Steven Gao (Univ. of Kent, UK)
 Dr W Gappmair (Graz Univ. of Technology, Austria)
 Dr M Gebhart (NXP, Gratkorn, Austria)
 Dr Danielle George (Univ. of Manchester, UK)
 Dr E Gaikoumidis (Aston Univ., UK)
 Prof M Ghavami (London South Bank Univ., UK)
 Dr M Głabowski (Poznan Univ. of Tech., Poland)
 Prof R J Green (Univ. of Warwick, UK)
 Dr S Harmer (MMU, UK)
 Dr J Haase (Vienna Univ. of Technology, Austria)
 Dr J Hrad (Czech Technical Univ. in Prague)
 Prof A Inoue (Chiba Instut. Of Tech., Japan)
 Dr M Jubran, Birzeit University, Palestine.
 Dr D Ka Chun So (Univ. of Manchester, UK)
 Dr A Kaloxylas (Univ. Of Peloponnese, Greece)
 Dr T Kamalakis (Univ. of Athens, Greece)



Since 1998 CSNDSP has now been recognised as a forum for the exchange of ideas among engineers, scientists and young researchers from all over the world on advances in communication systems, communications networks, digital signal processing and other related areas and to provide a focus for future research and developments. CSNDSP 2020 is organized by Instituto de Telecomunicações a research institute in Portugal. The local organising committee invites you to submit original high quality papers addressing research topics of interest for presentation at the **CSNDSP 2020**, which will be held at the beautiful city of Porto. As in previous events CSNDSP 2020 will also be hosting dedicated colloquiums and a number of special sessions on selected topics that you may wish to submit papers.

▪ **Keynote Speakers**



Prof. Ian F.
 Akyildiz
 Georgia
 Institute of
 Technology,
 Atlanta, USA



Prof. Rui L.
 Aguiar
 University of
 Aveiro,
 Portugal



Prof. Beatriz
 Ortega
 Universitat
 Politècnica de
 Valencia,
 Spain



Prof. Maurizio
 Marchese
 University of
 Trento, Italy



Prof. Nan Chi
 Fudan
 University,
 China



Prof. Anthony
 C. Boucouvalas
 University of
 Peloponnese,
 Greece

▪ **Colloquiums**

- **Optical Wireless Communications (OWC)**
- **Integrated Microwave Photonics (IMWP)**
- **Communication Networks Optimization (CNO)**
- **Optical Fiber Devices and Sensing Applications (OFD)**

▪ **Special Sessions**

- **SS1: Intelligent Transportation Systems**
- **SS2: Advanced Techniques for Connected and Automated Vehicles**
- **SS3: Emerging Trends and Approaches to Cyber Security**
- **SS4: Fundamentals of Machine Learning and Applications to Biomedical Signal Processing**
- **SS5: Green Communications and Emerging Networks**
- **SS6: Recent Advances in Flying Ad-Hoc Networks**
- **SS7: Satellite and Space Communications**
- **SS8: Massive MIMO and Millimeter Wave Communications**
- **SS9: Antennas for 5G Communications**

CSNDSP2020 General Information

Contact: Dr Luis Nero Alves - Local Organising Committee Chair: Instituto de Telecomunicações, Aveiro, Portugal,
 Email: csndsp2020-general@av.it.pt web-site: <https://csndsp2020.av.it.pt/>

Prof G Kandus (IJS Ljubljana, Slovenia)
 Dr M A Khalighi (Institute Fresnel, Marseille, France)
 Dr C G Lee (Chosun Univ., South Korea)
 Prof Mark Leeson (Univ of Warwick, UK)
 Prof S K Liaw (Nat. Taiwan Univ. of Sc. and Tech., Taiwan)
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 Prof. R Qahwaji (Bradford University, UK)
 Dr P Pacyna (Univ. of Science and Tech., Poland)
 Dr S Papaharalabos (Natio. Observatory of Athens, Greece)
 Prof R Penty (Cambridge Univ., UK)
 Dr W O Popoola (Glasgow Caledonian Univ., UK)
 Dr W Pribyl (TU Graz, Austria)
 Dr S Rajbhandari (Oxford University, UK)
 Dr F Ramos (UP Valencia, Spain)
 Dr P Remlein (Poznan Univ. of Technology, Poland)
 Prof Joseph Rodrigues (CHRIST University, India)
 Dr R Saatchi (Sheffield Hallam Univ., UK)
 Dr P Saengudomlert (Bangkok Univ. Thailand)
 Dr S M Sajid (Univ. of Eng.&Tech., Lahore, Pakistan)
 Dr Alex Shenfield (Manchester Met. Univ., UK)
 Prof S Shioda (Chiba Univ., Japan)
 Dr I Soto (Santiago Univ., Chile)
 Dr Mathew Southgate (MMU, UK)
 Dr U Speidel (Univ. of Auckland, New Zealand)
 Dr R Stewart (AIT, Ireland)
 Dr L Stergioulas (Brunel Uni., UK)
 Dr S Sygletos (Univ. of Karlsruhe, Germany)
 Dr A A Tahat (Princess Sumaya Univ. for Tech., Jordan)
 Prof H Takruri (Univ. of Salford, UK)
 Prof I Tomkos (AIT, Greece)
 R G Tosibeleffi (Ministero Sviluppo Economico, Italy)
 Dr X Tang - Tsinghua University, Beijing, China
 Dr P Truchly (Slovak Univ. of Tech., Slovakia)
 Dr A Vinel (Russian Academy of Sciences, Russia)
 Prof Y Viniotis (Univ. Raleigh, USA)
 Dr V Vitsas (TEI of Thessaloniki, Greece)
 Dr Andrew Weightman, Univ. of Manchester, UK
 Dr P Xiao (Queen's Univ., Belfast, UK)
 Dr L Yi (Shanghai Jiao Tong University, China)
 Dr K Yousef (Chamran Univ. Iran)
 Prof M N Zervas (Southampton Univ., UK)
 Dr J Zhao (Tyndall National Institute, Ireland)
 Dr Z Zhu (University of Science and Technology, China)
 Dr P Zwierzykowski (Poznan Univ. of Tech., Poland)
 Prof Rafael Perez-Gimenez (Universidad Las Palmas de Gran Canaria, Las Palmas, Spain)
 Dr. Matej Komanec (Czech Technical Univ. in Prague)
 Prof. Marijana Cosovic (Univ. of East Sarajevo, Bosnia and Herzegovina)
 Prof. Xuewen Shu (Huazhong Univ. of Sci&Tech, China)

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

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

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

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
AI for health, smart urban environments, assistive technologies

Networks & Network Management
Bandwidth management and Buffering
Channel allocation
Congestion & admission controls
Digital integrated services
Intelligent networks
Modelling and simulation techniques
Network management
QoS, reliability & performance modelling
Queueing 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 e-health
Middleware support for smart home and health telematics services

Wireless Networks & Devices
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

For further information visit: <https://csndsp2020.av.it.pt/>

- Papers may be presented in the form of **Oral presentation and/or Poster**
- Contributions by **MPhil/PhD research students** are particularly encouraged.

Extended Deadline Dates:

- Full paper: **2nd March 2020**
- Notification of acceptance: **31 March 2020**
- Camera ready: **31 May 2020**
- Registration and payment: until **31 May 2020**

Confirmed Special Issues:

future internet

an Open Access Journal by MDPI

sensors

an Open Access Journal by MDPI

Optik

by Elsevier

& more to come...

Fees:

IET/IEEE Members

Non-students: 450€, Students: 350€.

Non IET/IEEE Members

Non-students: 490€, Students 400€.

Registration covers: up to two papers (Non-Students), Lunches and Coffee Breaks, Welcome Recep., Gala Dinner and Sightseeing Tour. Students must make evidence of their university enrolment.

Travel grant and registration fee waivers – CSNDSP will offer a number of them.

Submission & Publishing details:

- Electronic submission ONLY, through: <https://edas.info/newPaper.php?c=26967>
- 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**).

Porto - Voted the *European Best Destination* in 2017, Porto, is the second largest city in Portugal, after the capital, Lisbon. Located in the north of the country by the outlet of the Douro River, it has a unique atmosphere of elegant neighbourhoods and large villas sitting on narrow cobbled streets. One of the older cities in Europe (dating back to 300 BC), this soulful city was classified as a World Heritage Site by UNESCO in 1996.

As a participant at CSNDSP 2020, you will have the opportunity to explore Porto – its alleyways, full of history and nostalgia, or an evening walk along the Douro River, visiting the vibrant *Mercado do Balhão* or sampling its renowned Port wine. In terms of a culinary experience, one is often spoilt for choice in Porto, with some of this regions specialities being the codfish, *tripas a moda do Porto*, *francesinha* and the famous Portuguese sweet treat - *pastel do nata*. The venue for CSNDSP 2020 is the Dr. António Cupertino de Miranda Centro de Congressos, which offers easy public transport access to the downtown.



Fundação Dr. Cupertino de Miranda

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