Second Call for Papers

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 colloquia and a number of special sessions on selected topics that you may wish to submit papers.

- **Keynote Speakers**

- **Colloquia**
  - 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

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**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/
Porto, the second largest city in Portugal, after 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 alleysways, full of history and nostalgia, or an evening walk along the Douro River, visiting the vibrant Mercado do Bolhão or sampling its renowned Port wine. In terms of a culinary experience, one is often spoilt for choice in Porto, with some of the regions specialties 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.

Full paper: 16 Feb. 2020
Notification of acceptance: 31 March 2020
Camera ready: 31 May 2020
Registration and payment: until 31 May 2020

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

**Communications Systems & Theory**
- Adaptive modelling
- Antennas
- 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
- 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 Devices & Systems**
- Adhoc & Sensor networks
- Disconnected & weakly connected operation
- Interworking wireless & wired 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.

**Submissions Dates**

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**Fees:**

- **IET/IEEE Members**
  - Non IET/IEEE Members
  - Non-students: 490€, Students 400€.

It includes: registration covers up to two papers (Non-Students), Lunches and Coffee Breaks, Welcome Reception, 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)

**Local Organising Committee Chair:** Instituto de Telecomunicações, Aveiro, Portugal,

**Email:** csndsp2020-general@av.it.pt web-site: https://csndsp2020.av.it.pt/