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Microwave photonics (MWP) is concerned with the use of photonic devices, systems, and techniques for applications in the microwave, millimetre-wave, and THz wave engineering. Integrated Microwave Photonics (IMWP) seeks to address the limitations of fiber and discrete-component based systems, like energy-efficiency, flexibility, and scalability. Next-generation global telecommunication platforms and emerging applications in radar, communications, and space industries will require entirely IMWP technologies to address the current limitations of electronics for massive capacity and connectivity. It increases the capacity and enables the low latency, flexibility, and scalability of 5G mobile networks. It provides wide spectral bandwidth, low timing jitter, and real-time signal processing of future radar systems.

The 1st colloquium on integrated Microwave photonics provides a forum for researchers, product and system engineers and systems developers to present and discuss their latest research results in IMWP. Papers are solicited on, but are not limited to, the following topics:

- **Integrated microwave photonics**
 - Photonics Integrated Circuits (PIC)
- **High-speed optoelectronic devices**
- **Microwave photonics for signal generation**
- **Microwave photonics distribution systems**
- **Processing of microwave signals by microwave photonics**
- **Photonic microwave sensing, and measurements**
- **Combined optical technology and microwave engineering**
- **Microwave photonics for millimetre waves**
- **THz techniques and applications**
- **Microwave photonics sub-systems**
- **Radio-over-Fiber (RoF)**
 - RoF systems and solutions
 - fiber-wireless communications
 - 5G mobile systems
- **Innovative applications of microwave photonics**
 - astronomy and space technology
 - traffic and automotive
 - electronic warfare
 - radar
 - medicine and health care

Submission Dates

- Full paper due: 16/02/2020
- Notification of acceptance: 31/03/2020
- Camera ready paper: 31/05/2020

Paper format and submission procedure are available at <https://csndsp2020.av.it.pt/author-centre/>

For further information about this colloquium, please contact: [Dr Eszter Udvary](mailto:Dr.Eszter.Udvary)
 For general information about the CSNDSP20, please contact: csndsp2020-general@av.it.pt

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