

The IEEE Workshop on Signal Processing Systems (SiPS) is a premier international forum in the area of design and implementation of signal processing systems. This is the first time SiPS takes place in Coimbra, Portugal, featuring a comprehensive program, including technical workshops, tutorials, demonstrations and exhibitions.

## **SUBMITTING A PAPER**

We invite prospective authors to submit 6-page (max.) original papers in areas including, but not limited to:

- Software Implementation of Signal Processing Systems

   Software on programmable digital signal processors
   Application-specific instruction-set processor (ASIP) architectures
   and systems
   SIMD, VLIW and multi-core CPU architectures
   -GPU-based massively parallel implementations
- Hardware Implementation of Signal Processing Systems

   Low-power signal processing circuits and applications
   High-performance VLSI systems
   FPGA and reconfigurable architecture-based systems
   System-on-chip and network-on-chip
   VLSI for sensor network and RF identification systems
   Processing-in-memory signal processing systems
- Machine Learning for Signal Processing

   Circuits and systems for AI
   Deep learning/machine learning/AI algorithms
   Tools/platforms for AI
   Edge and cloud AI computing platforms
   Hardware/neuromorphic accelerators
   Hardware/software co-design and automation for AI
- Design Methods of Signal Processing Systems

   Optimization of signal processing algorithms
   Compilers and tools for signal processing systems
   Algorithm-to-architecture transformation
   Dataflow-based design methodologies
   Error-tolerant techniques for signal processing
- Signal Processing Application Systems

   Audio, speech, and language processing
   Biomedical signal processing and bioinformatics
   Image, video, and multimedia signal processing
   Information forensics, security, and cryptography
   Sensing and sensor signal processing
   Signal processing for non-volatile memory systems
   Latency-and power-constrained signal processing
   Wireless communications and MIMO systems
   Coding and compression
   Signal processing for mixed-signal technologies

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# www.sips2020.org

### **IMPORTANT DEADLINES**

Technical Papers	1 <sup>st</sup> April 2020
Special Session Proposal	1 <sup>st</sup> April 2020
Tutorial Proposals	1 <sup>st</sup> April 2020

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