



25-27 March 2020 Marrakesh Morocco



## Call for papers

The Third International Conference on Smart Applications and Data Analysis for Smart Cyber Physical Systems (SADASC'20) will be held during March 25-27, 2020 in Marrakesh, Morocco. SADASC'20 will bring together researchers and industry professionals contributing towards different phases of designing, exploiting and maintaining Smart Cyber Physical Systems and their Applications. These phases include requirements engineering, data acquisition/cleaning, storage, deployment, exploitation, and visualization. Designing these systems also has to consider issues such as ethics, security and privacy. SADASC'2020 follows the success of the [Agadir \(2016\)](#) and [Casablanca \(2018\)](#).

## Topics and scope of the conference

### Designing and modeling Smart Applications and Cyber Physical Systems

Development Lifecycle Management, Ecosystems Cyber Physical Systems, Simulation of Applications and Cyber Physical Systems, Requirement Engineering for Data-enabled Systems/Applications, Multiparadigm Modeling And Methodologies in Cyber Physical Systems, Software Engineering for Cyberphysical Systems, Stakeholders, Barriers and Requirements For Cyberphysical Systems, Human In The Loop in Cyberphysical Systems, Control and Optimization for Cyberphysical Systems, Dependability in Cyberphysical Systems (Realtime, Reliability, Availability, Safety, Security)

### Network technologies & IOT

New Platforms and Hardware Designs for Networked Sensor Systems, Systems Software Including Operating Systems and Network Stacks, Low Power Operation, Energy Harvesting, and Energy Management, New Communication Paradigms for Ubiquitous Connectivity, Mobile and Pervasive Systems Including Personal Wearable Devices, Drones and Robots Sensing, Actuation, and Control, Heterogeneous Collaborative Sensing, Fault Tolerance, Reliability, and Verification, 5G Wireless, Routing, Scheduling, Resource Allocation, Spectrum Sharing, Network Optimization and Learning, Sensor Oriented Data Modeling, Network Protocols, Coverage, Connectivity, and Longevity, Simulation Tools And Environments, In Network Processing and Aggregation, Foundations of Sensor Networks, Vehicular Communication Design

## Publications and Special Issues

All Accepted Papers will be Published in CCIS, Springer. <http://www.springer.com/series/7899> Springer

Extended versions of selected papers will be published in the following indexed journals:

- IEEE/CAA Journal of Automatica Sinica (Q1)
- Journal of Systems Architecture, Elsevier (IF: 1.159; Q3)
- International Journal of Reasoning-based Intelligent Systems (IJRIS), Scopus indexed journal (Q3)

## Best Paper Award

Awards will be delivered to best papers based on their quality and novelty.

## Important Dates

**Final Paper Submission Deadline** 13 January 2020  
**Acceptance notification** 16 February 2020  
**Camera-ready papers** 22 February 2020  
**Early bird registration** 22 February 2020

### Exploitation and Exploration

Programming Models/Environments for Cluster Cloud Computing, Parallel Databases/NoSQL Solutions in Memory Databases, Open Sources for Data Management, Data Analysis/Visualization, Non-Functional Requirement Satisfaction (Ethics, Pricing, Legal, Cultural, and Economic Principles and Regulations), Green Computing, Recommendation Systems, Security, Privacy and Trust Blockchains, Prediction Modeling, Machine Learning/ Deep Learning, Exploratory Data Analysis, Econometric Models for Smart applications/systems

### Data Acquisition, Storage and Infrastructures

Data Variety Management, Heterogeneity of Devices for Data Collection, Data Cleaning/Transforming/Fusing Data, Quality Uncertainty of Data, Data Curation Data Lakes, Data Heterogeneity, Management Ontologies Data Provenance/Integration/Fusion, Data Collection Workflows, Metadata Value Capturing, Norms and Standards, Data Compression/Summarization, Cloud/Cluster Computing, Main Memory Databases, Indexing, Coprocessing of data (CPU, GPU, FPGA, etc.), Polystore Deployment, Data partitioning—Allocation/Load Balancing, Data algorithms and data structures on modern hardware, Hardware systems for query processing benchmarks

## Submissions

Authors are invited to submit English-language research and application papers representing original, previously unpublished work. Duplicate submissions are not allowed. Papers must be submitted as a single PDF document, via the EasyChair system: <https://easychair.org/conferences/?conf=sadasc20>. Submissions must conform to Springer's CCIS style (Latex style only for camera-ready papers) and should not exceed **14 pages**. Submitted papers will be carefully evaluated based on originality, significance, technical soundness, and clarity of exposition. Each accepted paper must be presented at the conference by one of the authors.

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