

Call for papers

The Fourth International Conference on Smart Applications and Data Analysis for Smart Cyber-Physical Systems (SADASC'20) will be held during September 22-24, 2022 in Marrakh, 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'2022 follows the success of the Agadir (2016), Casablanca (2018) and Marrakech (2020)

Topics and scope of the conference

Designing and modeling Smart Applications and Cyber-**Physical Systems**

Development lifecycle management - Eco-systems Cyber-Physical Systems - Simulation of Applications and Cyber-Physical Systems - Requirement Engineering for applications and cyber-physical systems - Multi-paradigm modeling and methodologies in cyber physical systems - Software Engineering for cyber-physical systems - Stakeholders, barriers and requirements for cyber-physical systems - Human in the loop in cyber-physical systems - Control and Optimization for cyber-physical systems - Dependability in cyber-physical systems (real-time, 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

Publication and indexing

All Accepted Papers will be Published in 🕢 Springer

http://www.springer.com/series/7899

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

- IEEE/CAA journal of automatica sinica (Q1) ٠
- Journal of Systems Architecture Elsevier (IF: 1.159; Q3)
- International Journal of Reasoning-based Intelligent Systems (IJRIS): Scopus indexed journal. (Q3)

Exploitation and Exploration

Programming Models/Environments for ClusterCloud Computing - Parallel Databases/NoSQL solutions/inmemory 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 - Economical Models for Smart applications/systems

Data management

Data acquisition, storage and infrastructures-Data conversion and data supervision-Heterogeneity of Devices for Data Collection-Big Data-Parallel Databases/NoSQL solutions/in-memory databases and graphs databases-Data Integration, cleaning, transforming and fusing-Data compression and summarization-Data quality, veracity and uncertainty-Data Lakes and data warehouses-Data Heterogeneity Management-Ontologies-Data Collection Workflows-Meta-data-Value Capturing-Norms and Standards-Cloud/Cluster/Distributed computing for data management-Main Memory Databases-Indexing-Data partitioning/Allocation/Load Balancing-Value Capturing Norms and Standards-Data Compression/Summarization Cloud/Cluster Computing-Main Memory Databases-Indexing-Co-processing of data (CPU, GPU, FPGA, etc.)-Polystore Deployment-Data partitioning/Allocation/Load **Green Communications, Computing and Technologies** Green and sustainable computing-Energy-efficient computing and supercomputing-Intelligent signal processing for green communications-Green cloud computing and IoT-Energy harvesting and energy efficiency in communications-Green vehicles, homes, buildings and industries-Green data storage-Privacy, safety, and security in greenaware systems

Case studies

Predictive maintenance-Industry 4.0 (system intercconection, information transparency, technical assistance)-Cognitive computing in real-applications: education, healthcare, etc-Smart farming-Agricultural intelligence-

Important Dates

Description Springer

Final Paper Submission Deadline 03 MAI 2022 Acceptance notification **Camera-ready papers Early bird registration**

25 JUNE 2022 12 JULY 2022 25 JUNE 2022

Submissions

Authors are invited to send their original and previously unpublished papers (8 pages maximum) in English following the template: word or latex. All papers will be peer reviewed and acceptance will be based on quality, relevance and originality. Authors have to strictly adhere to the Springer CCIS Authors' Instructions or templates.

Best paper award

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

Speakers



Athman

Bouguettaya



Fadi Dornaika





TOBIAS

Michael Sheng

Progress in Artificial Intelligence

Market intelligence

ORGANIZING COMMITEE

SENIORS:

M.HAMLICH (UH2C/ENSAM) N.MACHKOUR (UH2C/ENSAM) M.ZEGRARI (UH2C/ENSAM) A.AITELMAHJOUB (UH2C/ ENSAM)

R.MAJDOUL(UH2C/ENSAM) N.RABBAH (UH2C/ENSAM) M.MOUTCHOU (UH2C/ENSAM) M.ENNAJI (UH2C/ENSAM) A.BELANGOUR(UH2C/FSBM) A.FATIHI (UH2C/ENSAM) S.OASSIMI (UCA/FST) A.ABOURRICHE (UH2C/ENSAM) N.YOUSSFI (UH2C/FSBM)

H.MOUTACHAOUIK (UH2C/ ENSAM) M.RAMDANI (UH2C/FST) S.TAYANE (UH2C/FSBM) A.EL AFIA (UH2C/ENSAM) A.TOUATI (UH2C/ENSAM) K.NAJAD (CCOA/STEINBEIS) **B.BESSAS (UH2C/ENSAM)** A.EL HASSAN (UCA/FSS) S. EL FILALI (UH2C/FSBM) H.MOURADI (CERIM/HESTIM) C.BRIGUI (CERIM/HESTIM) M.MESTARI (UH2C/ENSET) M.YOUSSFI (UH2C/ENSET)

JUNIORS:

A. ELMOUTAOUKKIL, ENSAM, CASABLNCA M. CHRISS, ENSAM, CASABLNCA I.YOUB , ENSAM, CASABLNCA M. Ayad,ENSAM, CASABLNCA H.SOULAIMANI, ENSAM, CASABLANCA M.RADOUANI, ENSAM, CASABLANCA

Tutorials & Workshops



Denis Hamad



Mustapha Nourelfath

Mohamed HAMLICH

Phone: 00212 6 79 79 16 82

E-mail: moha.hamlich@gmail.com

www.sadasc.net







le l'ingénierie et du Managemen



ÉCOLE NATIONALE SUPÉRIEURE D'ARTS ET MÉTIERS UNIVERSITÉ HASSAN II DE CASABLANCA