



## Distributed Computing for Emerging Smart Networks Workshop (DiCES-N)

December 18, 2020, Bizerte, Tunisia



### CALL FOR PAPERS

#### Distributed Computing for Emerging Smart Networks Workshop (DiCES-N)

**The organizing team is closely monitoring the development of the COVID-19 situation. In case of travel restrictions that prohibit physical attendance, the conference will be held in an alternative way using distance presentations in order to ensure both the safety of participants and wide dissemination.**

#### Aims and Scope

Nowadays, the global vision is the progressive migration towards smart cities in order to enhance the citizen life and to encounter many problems induced by population growth and increased urbanization, such as traffic congestion, air pollution, ... These smart environments can be viewed as interconnection of wide-scale cyber-physical systems, with sensors monitoring cyber and physical indicators to collect diverse information from the surrounding environment and with actuators dynamically changing the complex urban environment in some way. Through such systems, many innovative applications can be proposed in several fields of activity, such as smart living, smart mobility, smart economy, smart environment and smart governance. As human factor is involved in many applications, verifying and proving the validity and correctness of protocols and applications are crucial steps before deployment, in addition to ensuring other paradigms such as scalability, energy saving, resource constraints, etc. In this context, several methods and approaches of Distributed Computing are exploited in software and hardware to propose new approaches able to support and analyse the huge amount of collected information and to deal with the control of these emerging networks.

The workshop aims to be a major forum for researchers and practitioners, interested in the design, development and evaluation of distributed systems, platforms and architectures for Cyber Physical Systems in the context of smart cities. Highlights of the workshop will include a high quality single-track technical program and an invited speaker.

## Main Topics of interest:

Authors are invited to submit original and unpublished contributions in all aspects of Distributed Computing applied to CPS and to real cases in the context of emerging networks. Topical areas of interest are, but not limited to, the following:

- Self-organization, self-stabilization, self-healing and autonomic computing for CPS
- Distributed algorithms for emergent wireless networks
- Communication and networking distributed protocols for emergent wireless networks
- Artificial intelligence and machine learning applied to Cyber Physical Systems and smart cities applications
- Machine intelligence in Cyber Physical Systems and real time analytics
- Optimization, approximation methods for Cyber Physical Systems and smart cities applications
- Security and privacy of distributed systems in the context of CPS
- Modelling and performance evaluation
- Performance analysis : complexity, correctness, scalability
- Robustness, fault-tolerance, scalability and real-time in the context of CPS
- Verification and validation of algorithms and applications in the context of CPS
- Network virtualization and software-defined wireless networks
- Cognitive communications and networking
- Mobile fog/edge/cloud computing
- IoT Computing and Networking and applications
- Context-awareness in wireless, mobile networks
- Energy-Efficient Designs
- Smart city applications: e-health, smart transportation...
- Wireless and Mobile Networks: Adhoc networks, VANET, WSN, 5G...
- Signal processing and applications in the context of smart city applications

## Important dates

Paper Submission	: <del>September 15, 2020</del> <b>October 04, 2020</b>
Author Notification	: October 27, 2020
Camera-ready Copy Submission	: November 3, 2020
Author Registration	: November 3, 2020

## **Workshop Committee**

### **General co chairs**

Imen Jemili, University of Carthage, Tunisia

Mohamed Mosbah, Bordeaux INP, France

### **TPC co chairs**

Sabra Mabrouk, University of Carthage, Tunisia

Soumaya Dahi, University of Carthage, Tunisia

Akka Zemmari, University of Bordeaux, France

### **Publicity chair**

Emna Ben Salem, University of Carthage, Tunisia

Rim Negra, University of Manouba, Tunisia

## **Program Committee**

Raoudha Beltaifa, University of Manouba, Tunisia

Anis Ben Aicha, University of Carthage, Tunisia

Lotfi Ben Othmane, Iowa State University, USA

Kamal E Melkemi, University of Batna 2, Algeria

Ahmed EL Oualkadi, National school of applied sciences of Tangier, Morocco

Mohammed Erradi, ENSIAS, Morocco

Parvez Faruki, Computer Engineering Department, MNIT Jaipur, India

Matthieu Gautier, University of Rennes 1, France

Tahani Gazdar, University of Jeddah, KSA

Fadi Kacem, University of Carthage, Tunisia

Moez Krichen, Albaha University, KSA

Bacem Mbarek, Masaryk University, Brno, Czech Republic

Neha Pattan, Google, USA

Slim Rekhis, University of Carthage, Tunisia

Ali Safaa Sadiq, Monash University, Malaysia

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Eiad Yafi, University Kuala Lumpur, Malaysia

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