



Springer

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

**April 26-27, 2025, Hammamet, Tunisia**



**CALL FOR PAPERS**

**Distributed Computing for Emerging Smart Networks (DiCES-N)**

**<https://visidia.labri.fr/DiCESN2025/>**

DiCES-N 2025 proceeding will be published with Springer in their Communications in Computer and Information Science series CCIS <http://www.springer.com/series/7899>

Indexing: The books of this series are indexed in Scopus, DBLP, Google Scholar, EI-Compendex, Mathematical Reviews, SCImago.

**The best papers will have the opportunity to submit extended versions to a prestigious journal proposed by the workshop (Q2).**

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As smart cities inherently involve multiple disciplines, Dices-N has evolved to include new themes and encompass a wide range of topics pertinent to large-scale smart city initiatives.

**Towards Digital cities and Emerging, Smart and Sustainable Networks  
Workshop**

## **Aims and Scope**

Nowadays, the global vision is the progressive migration towards smart cities in order to enhance citizen life, optimize the allocation of city resources and support sustainable growth without sacrificing health and environment. As urban centers grapple with challenges stemming from population expansion, resource limitations, and environmental deterioration, the imperative to harness smart computing technologies becomes increasingly apparent. These technologies hold the key to constructing urban ecosystems that are not only sustainable but also resilient in the face of evolving challenges, particularly climate changing.

Smart cities rely on the deployment of novel technologies and IT tools to cultivate intelligent and customized applications that cater to various aspects of urban life. This encompasses a broad spectrum of domains, including but not limited to smart living, mobility, economy, environment, and governance. Innovation flourishes across these diverse sectors, with a plethora of applications waiting to be proposed and implemented. From enhancing quality of life to improving transportation systems, fostering economic vitality, preserving natural resources, and streamlining governance processes, the potential for smart city solutions knows no bounds.

The workshop aims to be a major forum for researchers, interested in the design, development and evaluation of systems, platforms and architectures for smart cities applications and services. The workshop on Digital cities and Emerging, Smart and Sustainable Networks (DiCES-N) invites researchers, practitioners, policymakers, and industry experts to submit papers on cutting-edge smart computing solutions aimed at advancing sustainability in urban environments. 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 related to all aspects of smart city technologies, from theoretical foundations to practical implementations, and encompassing real-world case studies. Topical areas of interest are, but not limited to, the following:

#### Smart cities and IoT:

- Applications for smart and sustainable cities: e-health, smart transportation, smart grid, smart agriculture, smart environment, e-vote, Internet of Vehicles, ...
- Smart and sustainable infrastructure
- Intelligent Transportation Systems: traffic, congestion, safety, sustainable modes of transportation
- Urban mobility solutions: smart computing for shared mobility, micro-mobility options, smart parking
- Advanced digital services
- Green IT
- IoT computing, networking, and applications
- ...

#### Networks and wireless technologies for smart city applications

- Wireless and mobile networks: Ad Hoc networks, WSN, WBAN, VANETs, 5G,...
- Distributed algorithms
- Communication and networking protocols
- Context-awareness in wireless and mobile networks
- Power-aware, Energy-Efficient Designs and renewable energy
- Novel Architectures for wireless and mobile Networks
- Autonomous Intelligent Systems
- Self-organizing, self-stabilizing and self-healing Network Architectures and Protocols
- Next generation network architecture for intelligent computing
- Signal processing and applications in the context of smart city applications
- Network virtualization and software-defined wireless networks
- Cognitive communications and networking
- Mobile fog/edge/cloud computing
- Green Networking
- Modelling and performance evaluation
- Performance analysis: complexity, correctness, scalability
- Robustness, fault-tolerance, scalability of architectures and networks
- Verification and validation of algorithms and applications
- ...

#### AI-enabled cities

- Artificial intelligence and machine learning applied to smart cities applications
- Machine intelligence in smart environments and real time analytics
- Generative AI (for smart cities use cases)
- Data analytics for smart cities
- Data-Driven Predictions
- Optimization, approximation methods for smart cities applications
- ...

#### Security in the context of smart cities

- Network and mobile security
- Cybersecurity and data privacy
- Resilient and Safe AI
- Digital governance and citizen engagement
- Digital twin technologies
- Blockchain

- Digital trust
- Digital forensics
- ...

## Special Ph.D. session

This special session aims to bring together PhD and Master's students involved in the design, development, and evaluation of systems, platforms, and architectures for smart city applications and services. It provides them with the opportunity to present and discuss their research in front of peers and experienced professors in a helpful environment. Short papers are encouraged, presenting preliminary results or ongoing work, **limited to MSc or PhD research, within the scope of the DiCES-N workshop.**

Each paper must be formatted according to Springer's CCIS format and must **at most 8 pages long**. All short paper submissions must be completely **anonymous**. Submissions will undergo a double-blind peer review process by members of the DiCES-N workshop program committee. Authors should not reveal their name or affiliation on the title page or in the text. Once accepted, articles must be single-authored, and the name(s) of the supervisor(s) must be clearly indicated ('supervised by ...') below the name of the principal author in the camera-ready version.

Papers must be submitted electronically, in PDF format, using the Equinocs submission system. Candidates whose papers have been accepted are expected to present their research at the special Ph.D. session and discuss their work and projects with other candidates and senior researchers. They are also expected to attend all sessions of the event. Accepted papers presented at the special session will be included in the DiCES-N 2025 workshop proceedings, which will be published by Springer as part of the CCIS series. **A selection of highly rated short papers will be exempt from registration fees.**

## Important dates

Early Paper Submission	: <b>October 15, 2024</b>
Early Author Notification	: January 31, 2025
Paper Submission	: January 5, 2025
Author Notification	: March 1, 2025
Short Paper Submission	: January 15, 2025
Author Notification (short paper)	: March 1, 2025
Camera-ready Copy Submission	: March 15, 2025
Author Registration	: March 25, 2025

## Workshop Committee

## **General co chairs**

Imen Jemili, University of Carthage, Tunisia

Mohamed Mosbah, Bordeaux INP, France

## **TPC co chairs**

Florence Sedes, Toulouse III - Paul Sabatier University, France

Habib Fathallah, University of Carthage, Tunisia

## **Proceedings chair**

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Salma Batti, University of Carthage, Tunisia

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Mohamed El Ansari, Moulay Ismail University Meknès, Morocco

Kamal E Melkemi, University of Batna 2, Algeria

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Nabil Hassan Litayem, Joaan Bin Jassim Academy for Defense Studies, Qatar

Sabra Mabrouk, University of Manouba, Tunisia

Hela Mahersia, University of Carthage, Tunisia

Amel Makhlouf, University of Sfax, Tunisia

Hend Marouane, University of Sfax, Tunisia

Hassan Mnif, University of Sfax, Tunisia

Dorsaf Omri, ENIT, University of Tunis El Manar, Tunisia

Samir Ouchani, CESI, France

Ashish Rauniyar, SINTEF Digital, Norway

Abdelaziz Sahbani, National Engineering School of Tunis, University of Tunis El Manar, Tunisia

Damien Sauveron, University of Limoges, France  
Haifa Touati, University of Gabes, Tunisia  
Mohamed Tounsi, Umm Al-Qura University, Mecca, Saudi Arabia  
Akka Zemmari, University of Bordeaux, France

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#### Contact

[soumaya.dahi@fsb.ucar.tn](mailto:soumaya.dahi@fsb.ucar.tn)

[zelkhalfi@cesi.fr](mailto:zelkhalfi@cesi.fr)