

# Call for papers The 12th International ACM Conference on Management of Digital EcoSystems (MEDES'20)

**The 12th International ACM Conference on  
Management of Digital EcoSystems (MEDES'20)**



**In-Cooperation with ACM, ACM SIGAPP and IFIP WG 2.6**

<http://medes.sigappfr.org/20/>

**November 2nd - 4th, 2020**

**Abu Dhabi, UAE**

In the world of the Internet of Things (IoT), the rapid growth and exponential use of digital components leads to the emergence of intelligent environments namely "digital ecosystems" connected to the web and composed of multiple and independent entities such as individuals, organisations, services, software and applications sharing one or several missions and focusing on the interactions and inter-relationships among them. With the help of the computational intelligence, these digital ecosystems can exhibit new self-\* properties (such as self-management, self-healing and self-configuration) environments, thanks to the re-combination and evolution of its "digital components", in which resources provided by each entity are properly conserved, managed and used. The underlying web-based resources mainly comprehend big data management, innovative services, smart and self-\* properties platforms. Due to the multi-disciplinary nature of digital ecosystems, they are highly complex to study and design. This also leads to a poor understanding as to how managing resources will empower digital ecosystems to be innovative, intelligent and value-creating. The application of Information Technologies has the potential to enable the understanding of how entities request resources and ultimately interact to create benefits and added-values, impacting business practices and knowledge. These technologies can be improved through novel techniques, models and methodologies for fields such as big data management, web technologies, networking, security, human-computer interactions, artificial intelligence, e-services and self-organising systems to support the establishment of digital ecosystems and manage their resources. The International Conference on Management of Digital EcoSystems (MEDES), previously named "The International Conference on Management of Emergent Digital EcoSystems", aims

to develop and bring together a diverse community from academia, research laboratories and industry interested in exploring the manifold challenges and issues related to resource management of Digital Ecosystems and how current approaches and technologies can be evolved and adapted to this end. MEDES 2018 calls for full papers presenting interesting recent results or novel ideas in all areas of Emergent Digital EcoSystems. At the same time, the conference calls for short papers presenting interesting and exciting recent results or novel thought-provoking ideas that are not quite ready, and preferably include a system demonstration.

MEDES seeks contributions in the following areas:

Digital Ecosystem Infrastructure

Data & Knowledge Management

Computational and Collective Intelligence

Semantic Computing

Software ecosystems for software engineering

Big Data

Services

Trust, Security & Privacy

Software Engineering

Internet of Things and Intelligent Web

Cyber Physical Systems

Social and Collaborative Platforms

Human-Computer Interaction

Open Source

Applications (Logistics, Energy, Healthcare, Environment, Smart Cities, Digital Humanities, Robotics, etc.)

Complex Systems and Networks

Submissions must be in an electronic form as PDF format and should be uploaded using the conference website. The submitted paper should be at most 8 ACM single-space printed pages.

Papers that fail to comply with length limit will be rejected. Submissions will be peer-reviewed by at least 3 peer reviewers. After the preliminary notification date, authors rebut by evidence and arguments all reviewer inquiries and their comments. Based on the rebuttal feedback, reviewers notify authors with the final decision. Selection criteria will include: relevance, significance, impact, originality, technical soundness, and quality of presentation. Preference will be given to submissions that take strong or challenging positions on important emergent topics related to Digital Ecosystems. At least one author should attend the conference to present the paper. The conference Proceedings will be published by ACM and indexed by the ACM Digital Library and DBLP. Kindly submit your papers by clicking <https://easychair.org/conferences/?conf=medes2020>.

## Poster Submission

The poster session provides an excellent opportunity to present early-stage or ongoing research, and to receive valuable feedback from conference attendees. We also strongly encourage student and industry submissions. Topics of interest are the same as those listed in the main conference and special session call for papers. A Best Poster Award will be assigned by an independent review committee according to the quality of research work and the quality of poster presentation. Authors are required to submit a short paper describing the poster content. Specifically, this paper should clearly state: (a) the research problem being addressed including the current state of the art, (b) what makes this problem relevant, important, and challenging, (c) the approach to the problem, (d) the key contribution, and (e) the expected results. Submitted papers must present original unpublished research that is not currently under review for any other conference or journal. Manuscripts should be prepared in 10-point font using the 2-column ACM conference format <https://www.acm.org/publications/proceedings-template> and may not exceed 2 pages, including figures tables (references may extend beyond this limit up to 1 more page). All papers should be written in English and submitted electronically in PDF format via the submission site posted on this page. Notice that authors do not submit the poster, but only the short paper describing in text what the poster would present. Submissions will be peer-reviewed by a technical program committee and will be judged based on their novelty, relevance, technical strength as well as the potential to generate discussions. Papers not following these guidelines may be rejected without review. Also, submissions received after the due date, exceeding length limit, or not appropriately structured may also not be considered. Authors may contact the program chairs for further information or clarification. Papers should be submitted electronically by the deadline to <https://easychair.org/conferences/?conf=medes2020>. All accepted papers will appear in the conference proceedings. At least one of the authors of every accepted poster must register at the conference and present the poster at the poster session. The recommended poster size is A0 (33.1 x 46.8 in, portrait orientation). The conference does not provide any support for printing posters. Typically, authors print their posters ahead of the conference.

Selected papers will be invited to submit an extended version of their work to appear in the Internet of Things Journal.

Submission Deadline: October 16th, 2020 (extended due to COVID-19)

Notification of Acceptance: October 25th, 2020

Camera Ready: October 30th, 2020

Paper Registration: October 30th, 2020

Conference Dates: November 2nd - 4th, 2020

## Organizing Committee

Richard Chbeir, University of Pau and Adour Countries, France | e-mail: [richard.chbeir@univ-pau.fr](mailto:richard.chbeir@univ-pau.fr)

Yannis Manolopoulos, Open University of Cyprus, Cyprus | e-mail: [manolopo@csd.auth.gr](mailto:manolopo@csd.auth.gr)

Ernesto Damiani, Khalifa University, UAE | e-mail: [ernesto.damiani@ku.ac.ae](mailto:ernesto.damiani@ku.ac.ae)

Djamal Benslimane, Lyon 1 University, France | e-mail: [djamal.benslimane@liris.cnrs.fr](mailto:djamal.benslimane@liris.cnrs.fr)

Ladjel BELLATRECHE, LIAS/ISAE-ENSMA, France | e-mail: [bellatreche@ensma.fr](mailto:bellatreche@ensma.fr)

Tadeusz Morzy, Poznan University of Technology, Poland | e-mail: [tadeusz.morzy@put.poznan.pl](mailto:tadeusz.morzy@put.poznan.pl)