DOCEIS 2021

12th Advanced Doctoral Conference on Computing, Electrical and Industrial Systems

7 – 9 July 2021 Caparica (Lisbon) - Portugal [ONLINE]

Call for Papers

Technological Innovation for Applied Artificial Intelligence Systems

Computational and Perceptional Systems
Energy
Enterprise Collaborative Networks
Electronics
Signal Processing
Embedded Intelligence
Smart biotechnology
Robotics and Integrated Manufacturing
Digital transformation
Telecommunications
Biomedical Engineering
Cyber-Physical Systems

IMPORTANT DEADLINES

15 JAN 2021
Submission of abstract

12 FEB 2021
Submission of full paper

27 MAR 2021
Notification of authors

09 APR 2021
Submission of camera ready

Note: research paper selection will be based on full text, double blind review. Prospective authors should submit a short abstract in advance to check adequacy to conference scope.

CONFERENCE CHAIRS

Conference Chairman
Prof. Luis M. Camarinha-Matos

Organization Chairman
Prof. Luis Gomes

Associated Activities Chairman
Prof. Pedro Pereira

Financial Chairman
Prof. João Goes

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*For additional information, please visit:

http://doceis.dee.fct.unl.pt/

The Advanced Doctoral Conference on Computing, Electrical and Industrial Systems is celebrating its **12th edition** (DoCEIS 2021) with a focus on Technological Innovation for Applied Artificial Intelligence Systems.

Artificial Intelligence (AI) is rebuilding and changing society's basic constructs - such as economy, health, education and life-style - through the implementation of intelligent algorithms on everyday applications and promoting technological advancements that allow for a better and more sustainable quality of life. AI techniques (e.g. machine learning and deep learning, automated planning, and reasoning) can be applied to several knowledge areas, from electronics and energy to the biomedical field and industrial collaborative networks, providing several advantages that make AI a paramount tool for both industrial and research innovation.

DoCEIS 2021 will target Applied Artificial Intelligence Systems, providing a forum where Doctoral Students, Researchers and Academicians have the opportunity to share and discuss their work and ideas in a multidisciplinary context, while creating collaborative opportunities for future work and research.

Key activities of the conference include:

- Presentation of research results by PhD students (co-authored by their supervisors).
- Tutorials by invited experts on scientific, methodological, or soft skills topics.
- Presentation and discussion of the base ideas of the thesis's plans.
- Discussion of the scientific and technical challenges in the Electrical and Computer Engineering areas.
- Sharing of experiences among PhD students from different geographical regions.
- Forum on practical aspects (e.g. Publications, job markets, careers, etc.).
- Creation of collaboration (social) networks.

Prospective authors are invited to submit research manuscripts reporting original work, in any of the scientific areas of the conference. Papers describing advanced prototypes, systems, tools and techniques, and general survey papers indicating future directions are also encouraged. Nevertheless, each paper must make a clear link to the main theme of the conference, including a section describing that link.

Proceedings are expected to be published by **Springer**, IFIP AICT series (indexed in **Web of Science, SCOPUS** and **DBLP**). Best papers will be considered for possible inclusion in a special journal issue.

There will also be poster discussion sessions regarding thesis plans, which will provide early feedback to PhD candidates in the initial phase of their studies.

Regular papers on ongoing PhD theses (8 pages):
- *Clear formulation of the research question and motivations*
- *Relate the PhD work to the conference theme (1 page)*
- *State of the art / related literature*
- *Research contribution and innovation*
- *Discussion of results and critical view*
- *Conclusions and further work*
- *References*

Finished theses overview papers (16 pages):
- *Extended overview of a PhD thesis finished during the last year, including research question, hypothesis, approach and main findings.*
- *Also include a section relating the PhD work to the conference theme (at least 1 page)*

Posters: Check specific guidelines on the web site.*