

Technological Innovation for Life Improvement

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

Organisational Co-sponsors



UNINOVA
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Technical Co-sponsors (requested)



The Advanced Doctoral Conference on Computing, Electrical and Industrial Systems is celebrating its **11th edition (DoCEIS 2020)** with a focus on Technological Innovation for Life Improvement.

Nowadays, life improvement has become a trending topic across different areas due to technological advancements that focus on human wellbeing. Different scientific areas, such as electronics, telecommunications, computing and energy, are innovating and changing their paradigm to promote a digital world with tools and concepts such as Virtual and Augmented Reality, Artificial Intelligence, Machine Learning, Big Data, Internet of Things, and Collaborative Networks, to provide a better and sustainable future with high quality of life. The impacts of these technological developments enhance health, environment, transportation and communication systems across the globe, through new products and services. Thus, the transition of these concepts to real-world solutions has a huge potential to face existing challenges, and increase knowledge, wellbeing, quality of life and collaboration among companies, organizations, people, and systems.

DoCEIS 2020 provides an ideal venue for doctoral students, researchers and academicians from all over the world to meet, share, merge, and discuss their works and ideas in a multi-disciplinary context.

The conference aims at creating collaborative opportunities for young researchers through sharing their findings and experiences among their peers while also collecting valuable feedback from colleagues in a welcoming environment.

Prospective contributors to **DoCEIS 2020** are challenged to identify in which ways their research contributes to or benefit from the conference theme and are encouraged to participate in this conference.

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.

For PhD theses recently finished (during the last year), extended overviews of the theses are invited.

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.

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

IMPORTANT DEADLINES

15 Nov 2019

Submission of abstract

(Extended) 29 Dec 2019

Submission of full paper

31 Jan 2020

Notification of authors

16 Feb 2020

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.

For additional information, please visit

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