

### Call for Doctoral Workshop Proposals Engineering Smart Cities

We encourage the presentation of Doctoral Workshop proposals in the early and middle stages of PhD research.

**Starting a New Journey** – this proposal focuses on your PhD journey at the beginning of your research. Discussions during the Doctoral Workshop of the IEEE E-TEMS 2021 will give you an outcome in the form of feedback, that you can use for your future work.

**On the Journey** – this proposal focuses on the outcomes of the research in the middle stage of your PhD journey. Share your current research findings, and it will fall under the discussion during the Doctoral Workshop of the IEEE E-TEMS 2021.

All presented during the Doctoral Workshop proposals can be then considered for the elaboration and extension. PhD researchers will be given a chance to be published in either **IEEE Xplore** or **Project Management Research & Practice Journal**.

**During the Workshop, we will have timeslots for you to present your proposal and discuss it. In the end, you will be part of an active research community, get in touch with other researchers on your topic and receive valuable feedback for your future research.**

At **IEEE E-TEMS 2021** – organised by the European Partnership for Project and Innovation Management – participants can share their understanding of Engineering Smart Cities as a System of Systems (SoS). An SoS consists of people, infrastructure and different technical systems. They are interconnected and implement new functionality that one system cannot provide alone. Application areas for those Systems are, e.g. Smart Mobility, Smart Home or Smart Health.

The PhD can address the user-centric engineering of those SoS. That can be methods and approaches to manage the complexity or use digitisation as an enabler for new solutions and technologies. On the other way, the PhD can also address new technical solutions of SoS and discuss the impact of the engineering work in terms of sustainability, resilience and quality of life.

#### Deadlines:

Doctoral Workshop proposal (1-2 pages) submission: **January 31<sup>st</sup>, 2021.**

Notification: **February 22<sup>nd</sup>, 2021.**

#### Topics:

- SoS Engineering
- Digital Engineering
- Model-Based Systems Engineering
- Digital Twin
- Agile Engineering
- X by Design
- Managing complexity
- Forming interdisciplinary teams
- Engineering solutions
- Impact of sustainability and quality of life

**More information** about the submission requirements: <http://www.etems.digital/2021/paper-preparation/>

The submission should be done via EasyChair system: <https://easychair.org/conferences/?conf=etems2021>

#### Doctoral Workshop Coordinators:

**Dr.-Ing. Lydia Kaiser** (Fraunhofer IEM)

**Prof. Dr.-Ing. Guido Stollt** (OWL University of Applied Sciences and Arts)

**Dr.-Ing. Harald Anacker** (Fraunhofer IEM)

**M.Sc. Michael Hillebrand** (University of Paderborn)

**M.A. Nargiza Mikhridinova** (Dortmund University of Applied Sciences and Arts)

**Dr. Beverly Pasian** (Utrecht University of Applied Sciences)

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For additional information please visit <http://www.etems.digital/2021> or contact us via [info@etems.digital](mailto:info@etems.digital)