

Announcement

from the organizer team of the Thirteenth International Symposium
on Tools and Methods of Competitive Engineering - TMCE 2020

Call for papers

The Thirteenth International Symposium on Tools and Methods of Competitive Engineering (TMCE 2020) will be held in Dublin, Ireland, from 11th May to 15th May 2020. This Symposium will be co-organized by the Technological University Dublin and the Delft University of Technology. Time has come for **submitting full-length papers** (10-12 pages) to this Symposium. The paper template can be downloaded from the Downloads section on the TMCE Symposia website (<https://tmce.io.tudelft.nl/>). Only high quality and properly formatted papers will be accepted for peer review. The official language of the TMCE 2020 Symposium and the Proceedings is English. The Program Committee will send every paper to at least three peer reviewers. The web-based system (EasyChair) will be used for submission management. Some important deadlines are as follows:

Submission of full papers	01 November 2019
Notification on the outcome of the review process	31 December 2019
Submission of revised papers	31 January 2020
Notification on paper acceptance	15 February 2020
Digital proceedings available:	30 April 2020

The focus theme of the TMCE 2020 Symposium will be: “**Designing and engineering of smart systems**”. Within this theme, many interesting and important topics are considered such as:

- **Engineering issues of smart systems such as cyber-physical systems**
- **Understanding smartness as system characteristics**
- **Building awareness in smart systems**
- **Reasoning mechanisms for smart systems**
- **Functional and structural (self-)adaptation of smart systems**
- **Human and system interaction with smart systems**
- **Self-tuning, self-adaptive and self-evolving smart systems**
- **Model-based and data-driven control of smart systems**
- **Designing self.* properties of smart systems**
- **Managing complexity, heterogeneity, and dependability of smart systems**
- **Societal and sustainability issues concerning smart systems**
- **Advanced design and engineering methodologies for smart systems**
- **Understanding design thinking and system thinking**
- **Data analytics and knowledge mining for smart systems**
- **Frameworks and models for smart system design, engineering and realization**

- **Knowledge-intensive tools for smart system and service design and engineering**
- **Advanced materials for smart systems and application**
- **Energy generation and provisioning for smart systems**
- **Advanced metal and non-metal additive technologies and systems**
- **Novel analysis, simulation and optimization methods and tools for systems design and engineering**
- **Socially responsive smart system engineering and education**

- **Development and application of smart systems in manufacturing and production**
- **Development and application of smart systems in mobility and transportation**
- **Development and application of smart systems in healthcare and rehabilitation**
- **Development and application of smart systems in homecare and well-being**
- **Development and application of smart systems in education and training**
- **Development and application of smart systems in sports and leisure**
- **Development and application of smart systems in sustainability and environment protection**
- **Development and application of smart systems in natural disaster avoidance and recovery**
- **Development and application of smart systems in agriculture and horticulture**
- **Development and application of smart systems in space exploration**

TMCE 2020 counts on the contribution and participation of system designers and developers, artificial intelligence experts, industrial designer engineers, high-tech engineering designers, managers, product and process innovators, systems and services innovators, environments and experiences innovators, information and knowledge technology managers, engineering technology managers, quality and process engineers, engineering IT suppliers and vendors, academic researchers and students, technology transfer centers, engineering educators and industrial advisors. Further information about the currently organized Symposium and the past events can be found on the web-site of TMCE or can be requested at info@tmce.org. The Organizing Committee is waiting for your high quality scientific papers! The best contributors will be awarded and selected papers will be considered for republication in special issues of several international journals.