

# IWFM 2020

## Online Workshop

### CHAIRMAN

Prof. Morten Lind  
Technical University of  
Denmark

### IMPORTANT DATES

Aug. 31<sup>st</sup>, 2020  
Submission of  
abstracts

Sep. 18<sup>th</sup>, 2020  
Notification of  
acceptance

Oct. 5<sup>th</sup>, 2020  
Deadline for FREE  
registration



#### VIA ZOOM

Link to Workshop will be sent  
to participants



#### CONTACT

Adriana Zsurzsan  
agsidea@elektro.dtu.dk



#### LINK

more information:  
<https://www.mfm.elektro.dtu.dk/iwfm/iwfm-2020>



OKAYAMA  
UNIVERSITY

## 5<sup>th</sup> International Workshop on FUNCTIONAL MODELLING for Design and Operation of Engineering Systems

Hosted by **Technical University of Denmark**  
& **Okayama University, Japan**

Online Workshop via Zoom, October 26<sup>th</sup>-28<sup>th</sup>, 2020  
Every day at 8 a.m. – 11 a.m. CET / 4 p.m. – 7 p.m. JST

### THEME

The design and operation of complex engineering systems need highly advanced technologies to meet the requirements in systems engineering, process and control design, risk assessment and human-machine interaction. These technological fields have a common challenge: to represent the purposes and intentions of the system under investigation and to use them in design and operation. A promising approach for tackling difficulties in handling complex engineering systems is to model goals and functions of a system from the viewpoint of means and ends and to use the model in combination with structural and behavioural information of a system.

The aim of the workshop is to facilitate high quality interactions among researchers that are interested in the theory of functional modelling (FM) and its applications. Participants can exchange and discuss their research results, establishing a common ground and identifying future research topics. To anchor the value of functional thinking for industrial applications, the workshop can include demonstrations or presentations from industrial partners.

### TOPICS

- Foundations, methodology and tools of FM
- Causal reasoning based on FM
- FM applications for safety systems and risk management
- FM applications in operation support of engineering systems
- FM applications in engineering design for process plants, human-machine systems, etc.
- Resilient control systems and control system design

### CONTRIBUTION

The workshop organizers now invite contributions from all researchers and industrial partners. Please submit an **abstract** of the content you would like to present at the workshop at the website: <https://www.mfm.elektro.dtu.dk/iwfm/iwfm-2020>. An abstract template is attached with this call.