

UNIVERSITY OF TWENTE.

Through-life Engineering Services



10th International Conference

Through-Life Engineering Services (TESConf)

16-17-18 November 2021 (online, 10.00-15.30)

University of Twente, Enschede, The Netherlands

“Sustainability and Digitalisation in TES”

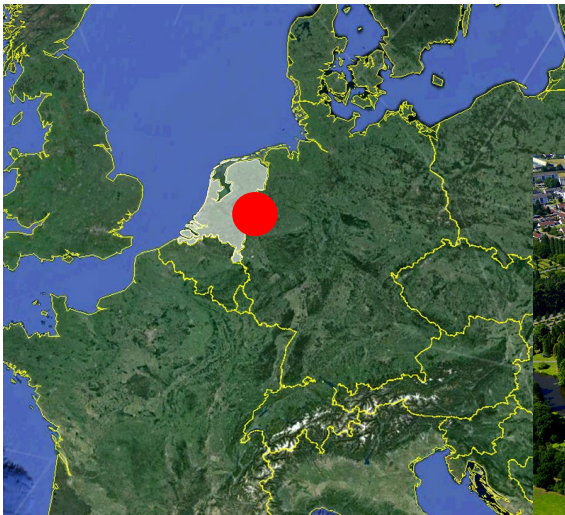
Academic Papers and Industrial Workshops

UNIVERSITY OF TWENTE

We have the pleasure to invite you to the
10th Through-life Engineering Services Conference

on 16-17-18 November 2021 (online)
at the University of Twente in Enschede, the Netherlands

<https://www.utwente.nl/en/tesconf2021/>



TESConf series is a well-established academic forum that brings together academia and industry to deliver engineering solutions for the life of complex and long-life assets. This blends research and industrial solutions related to processes and methods that can optimise the value and cost-in-use.

COVID-19 pandemic: the TESConf 2021 will be online

*Despite our intention to have a **face-to-face** conference on location, the actual situation does not give us enough confidence to be able to organise a safe and COVID-19 proof event. Moreover, academics and colleagues in several countries are not allow to travel yet. Therefore, we took the decision to have the TESConf 2021 **as online event.***



Topics of the Conference

The TESConf 2021 will review and discuss the most advanced and urgent topics for through-life engineering services, having its foundations around two key-aspects for industries, academics and society: **digitalisation and sustainability**.

Through-life Engineering Services (TES) for Sustainable and Digitised Assets

Digitalisation for TES

Artificial Intelligence,
Machine Learning,
Digital Twin,
Augmented/Virtual
Reality

Design for TES

Design for Maintenance, System
Integration, Smart Operation
Management, Safety

Manufacturing for TES

Sustainable Manufacturing, Additive
Manufacturing, Robotics

Maintenance & Service for TES

Predictive Maintenance, Maintenance
Optimization, Diagnostic methods,
Advanced Condition Monitoring, Remote
Maintenance, Autonomous Maintenance
Supply chain for TES, Servitisation

Phasing-out for TES

Disposal, Reuse, Recycling solutions

Sustainability for TES

LCA-LCC, Environmental
Impact, Sustainable Asset
Management, Circularity

The topics will explore functionality, performance, reliability and availability as well as cost-in-use for long-life engineering asset such as planes, trains, land-based vehicles, power plants, process plants, heavy machinery and buildings etc...



Full Papers and Extended Abstracts

The TESConf 2021 organising committee invites you to present scientific results and engineering solutions for assessing and assuring the life of complex and long-life assets. To deliver an oral presentation at the conference, all contributions require to have either an extended abstract or full paper accepted.

- Full papers will undergo peer reviewing prior to being accepted for publication in Social Science Research Network ([SSRN - Elsevier](#)).
- Accepted extended abstracts (*1000 words*) will not require a full paper, but an oral presentation will need to be delivered at the conference.

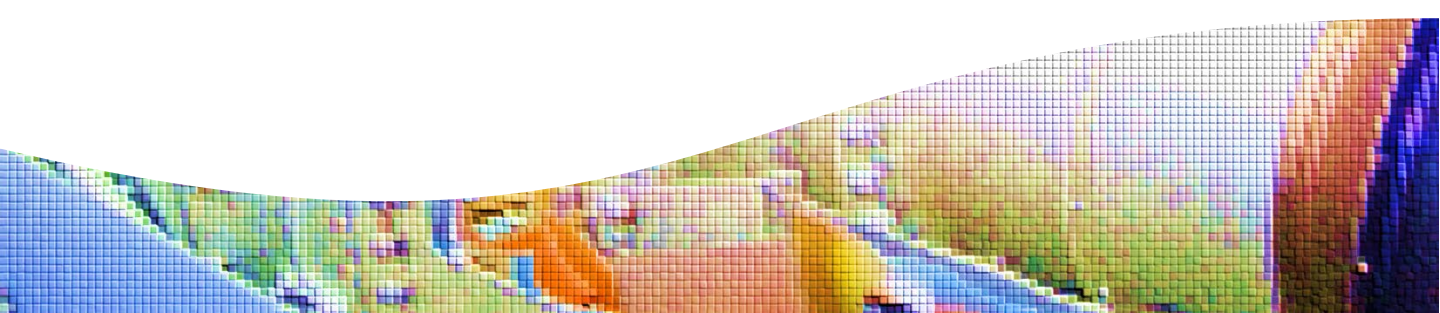
Selected papers will be published after further extensive improvement as a special scientific journal issue. For submitting a contribution: -> [here](#) <-

Industry workshops

There will be multiple industry workshops during the conference spanning many topics including **digitalisation, sustainability, system integration and knowledge management**, to name a few. If you would like to participate in the organisation of an industry workshop, please contact the organising committee.

Please note

The invitation to submit an abstract does not constitute an offer to pay travel, accommodation or registration costs associated with the conference. Similarly, no speaker fee is paid to successful participants. All speakers must register for the conference and forward the appropriate registration fee.





Keynote Speakers

The TESConf 2021 have planned to have three energetic and engaging keynote speakers from academia and industry in the final programme.



Prof. Dr. Arnab Majumdar
Director, LRF Transport Risk Management Center,
Imperial College of London, UK

ir. Hans Sintemaartendijk
Programme Manager, TATASteel Europe,
the Netherlands



Prof. Dr. Micaela Demichela,
Head of the Safety, Reliability, and Risk Centre (Safer),
Polytechnic of Turin, Italy



Final Programme

	Tuesday November 16 - Day 1	Wednesday November 17 - Day 2	Thursday November 18 - Day 3
10.00	Opening of the Conference Day 1	Opening of the Conference Day 2	Opening of the Conference Day 3
.15	Keynote - Prof. Arnab Majumdar	Keynote - ir. Hans Sintemaartendijk (TATA Steel)	Keynote - Prof. Micaela Demichela
.45	(Imperial College of London)	Virtual Coffee Break	Virtual Coffee Break
11.00	Virtual Coffee Break		
.15	Parallel Academic Session 1: Maintenance	Workshop 3 - Sustainability	Academic session 9: Service
.30	Parallel Academic Session 2: System Integration		
.45			
12.00			
.15		Lunch Break	Lunch Break
.30	Lunch Break	Lunch Break	Lunch Break
.45	Lunch Break		
13.00		Parallel Academic Session 5: Sustainability	Workshop 4 -Knowledge Management
.15	Workshop 1 - System Integration	Parallel Academic Session 6: Digitalisation	
.30			Virtual coffee break
.45			
14.00		Virtual coffee break	
.15	Virtual coffee break		Workshop 5 - Digital Twinning and AI technologies
.30	Parallel Academic Session 3: Robotisation	Parallel Academic Session 7: Maintenance	
.45	Parallel Academic Session 4: Digitalisation	Parallel Academic Session 8: Damange Analysis	Closing of the Conference (Best paper award, TESConf 2022)
15.00			
.15			
.30			



Important dates

Submission

5 April 2021	Submission of paper abstract proposals (max 300 words with title, full details of the authors and their contact details)
4 June 2021	Full length paper submission or extended abstract for presentation (without full paper)
20 June 2021	
23 July 2020	Notification of acceptance of full paper
20 August 2021	Final camera-ready full paper submission

Registration

6 September 2021	Author and early bird registration
4 October 2021	Late conference registration

Organising Committee



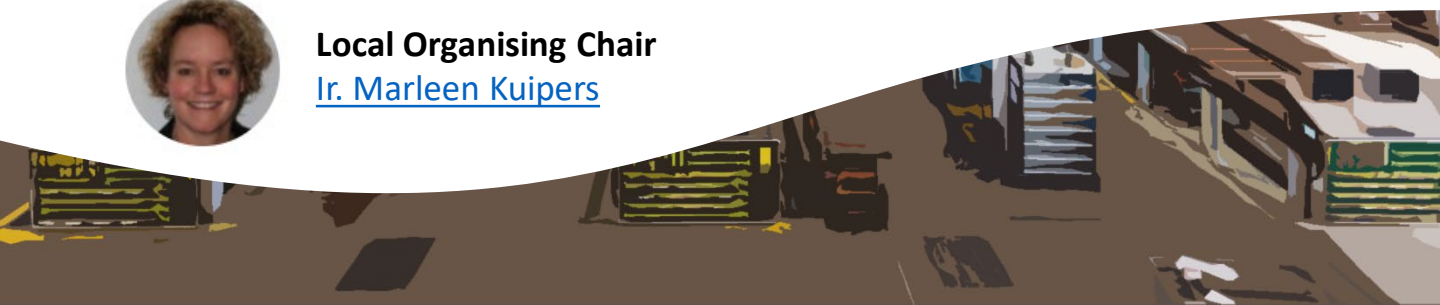
General Chair
[Prof.dr.ir Leo van Dongen](#)



Program Chair
[Dr. Alberto Martinetti](#)



Local Organising Chair
[Ir. Marleen Kuipers](#)





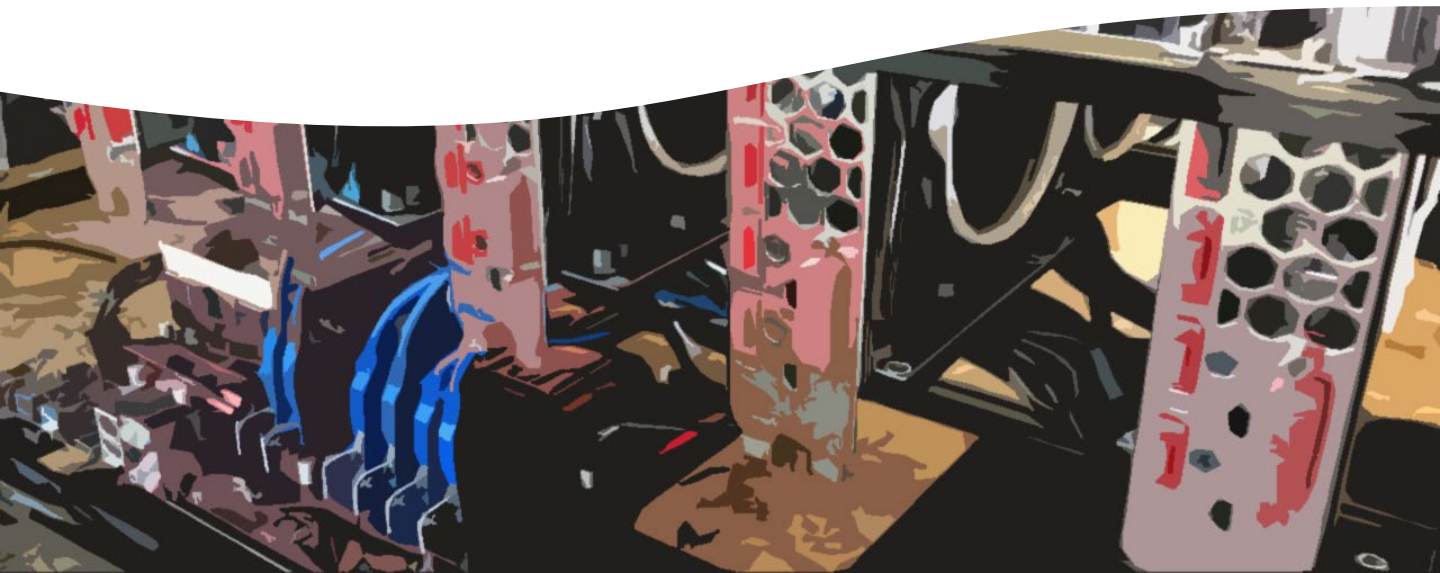
Conference fees

Due to the decision to have the TESConf 2021 as full online event, the conference fees have been significantly waved.

Registration fee:

- **€175**

For the registration, please click [-> here <-](#)



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Contact

T: +31 534 895 529

E: tesconf2021@utwente.nl

W: <https://www.utwente.nl/en/tesconf2021/>



TESConf 2021 is a CIRP
sponsored event