



Additive Manufacturing  
Technologies

## CONFERENCE

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From Smart City to Smart Factory for  
Sustainable Future: conceptual framework,  
scenarios, and multidiscipline perspectives  
(SCFF23)



## INTRODUCTION

The international conference SCFF23 is organized for researchers, experts, and students to share their vision about the future under the concept of “From Smart City to Smart Factory for Sustainable Future” from multidiscipline perspectives.

The aim of the conference is to provide an opportunity for participants with different expertise to meet up and share their knowledge, disruptive ideas, solutions to existing problems that hinder us from moving forward to more modern and sustainable life using technologies. The conference facilitates mutual exchanges of experiences and establishment of long-lasting international cooperations. The scope of the conference includes discussions about Innovative and Sustainable technologies, solutions, and frameworks for applications of state-of-the-art technologies to Smart City and Smart Factory.

The conference will be held on the occasion of the final conference of the project Innovative and Additive Manufacturing Technologies - New Technological Solutions for 3D Printing of Metals and Composite Materials, reg. no. CZ.02.1.01/0.0/0.0/17\_049/0008407.

# SCOPES

The scope of the conference includes but is not limited to the below topics which contribute to the use of technologies in Smart City and Smart Factory for Sustainable Future. The objective is to promote innovative research and works in the field of applied sciences, technologies, engineering, and management. Participants can submit to the following tracks:

## Track 1

Smart Factory; Smart Manufacturing; Additive Manufacturing; Smart Materials; Smart Robotics; Autonomous Driving; Digital Twin.

## Track 2

Smart Electronics; Internet of Things; Electronics and Telecommunication; Wireless Communication.

## Track 3

Artificial Intelligence; Machine Learning; Cloud Computing; Cyber Security; Network Analysis; Big Data; Blockchain; Data Visualization; Metaverse; XR; AR; VR.

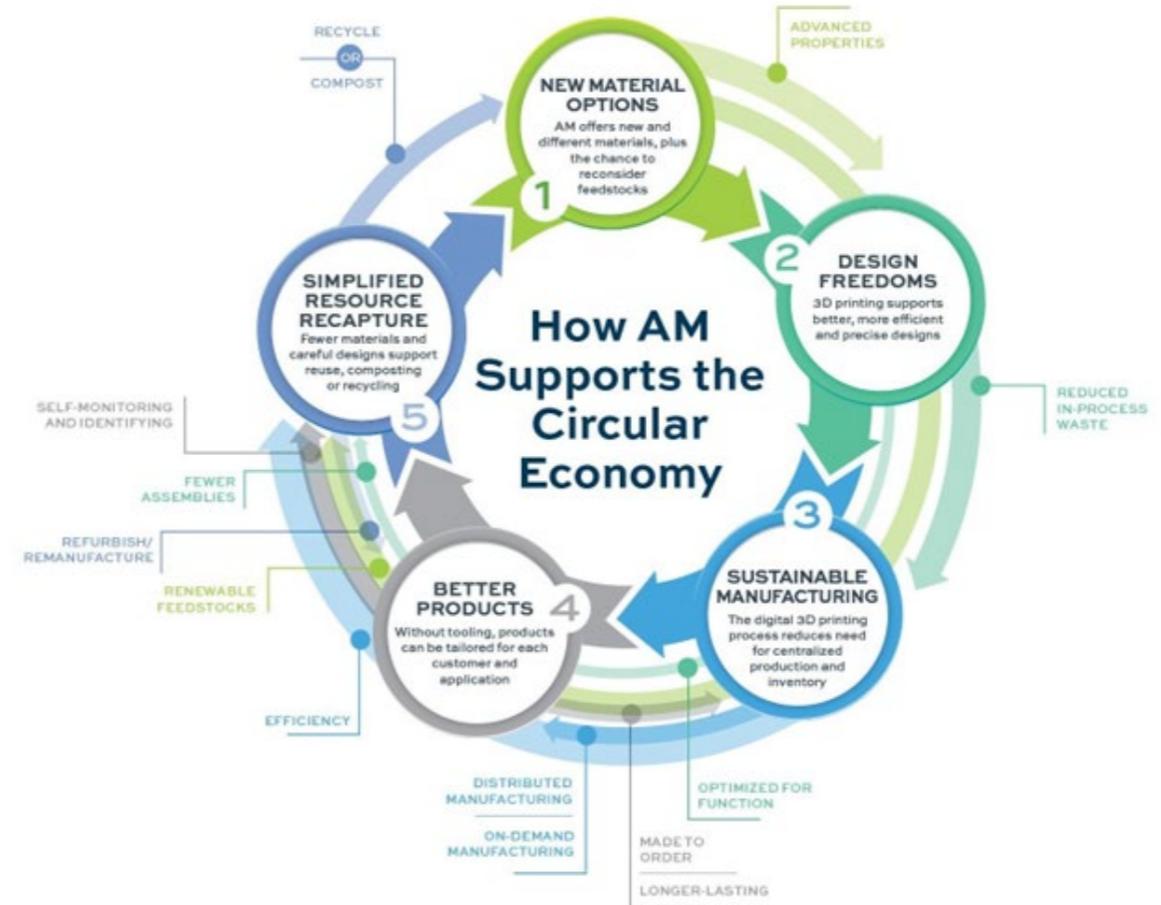
## Track 4

Sustainability; Smart City; Smart Village; Smart Education; Environmental Technology; Digital Transformation; Healthcare; Biotechnology.

## Track 5

Smart Economy; Smart Business; Industrial Management; Business Administration; Ecommerce; Business Intelligence; Economics; Economic Development; Political Economy; Management; Logistics.

The scope of MM Science Journal for further reference can be found here: [About Us | MM Science Journal](#)



# IMPORTANT DATES (TIMES SCHEDULE)

Abstract submission	February 01, 2023
Notification of acceptance (2-page Abstract)	February 10, 2023
Paper submission	February 28, 2023
Notification of acceptance (Full paper)	March 31, 2023
Camera-ready submission	April 15, 2023
Registration	April 30, 2023
Conference dates	May 10-11-12, 2023

## VENUE

The conference is organized online for virtual participation and in the campus of VSB – Technical University of Ostrava for physical participation.

Faculty of Mechanical Engineering, VSB-TUO with a seat in Ostrava, 7. listopadu 2172/15, 708 00 Ostrava, Czech Republic.



# ORGANIZERS

The invitation is sent out to the possible co-organizers as follows:

- » Faculty of Mechanical Engineering, VSB-TUO, Ostrava, Czech Republic (confirmed)
- » Hanoi University of Science and Technology, Ha Noi Capital, Vietnam
- » Eastern International University, Thu Dau Mot City, Vietnam
- » University of Finance and Marketing, Ho Chi Minh City, Vietnam
- » Ton Duc Thang University, Ho Chi Minh City, Vietnam
- » Department of Engineering Materials and Biomaterials, Faculty of Mechanical Engineering, Silesian University of Technology, Gliwice, Poland
- » Department of Metrology and Unconventional Manufacturing Methods, Kielce University of Technology, Kielce, Poland (confirmed)

Honorary patronage: prof. Msc. Robert Cep, Ph.D., Dean of the Faculty of Mechanical Engineering, VSB-TUO.



# PAPER SUBMISSION AND OTHER FEES

The submission of Abstract and Full paper is to be done in VSB-TUO's submission system. The selected Abstract which is to be extended to Full paper will be published in MM (Modern Machinery) Science Journal, ISSN 1803-1269 (print) and ISSN 1805-0476 (on-line), indexed in Scopus and WoS.



The Abstract is two (2) pages long. In the framework of our conference, Full paper is limited to five (5) pages maximum using MM Science Journal template. The participants can choose to submit their papers as Posters or Full papers. Accepted Abstracts will be published in a University book entitled "Innovative and Additive Manufacturing" by Faculty of Mechanical Engineering, VSB-TUO. Only Full paper will be published in MM Science Journal with the fee of 5 500 Czech korun, which is to be submitted to the journal. No fee is charged for submission that is rejected.

There is no fee for participants to attend the conference in both online and physical form. We cover the meal, and other fees related to the organization of the conference in VSB-TUO campus. The participants who will attend the conference in person have to cover the transportation, hotel fee, visa application, etc. The invitation letter for application to Schengen visa will be sent out on the date of Notification of acceptance (2-page Abstract). We assist participants who will attend physically with hotel booking in our VSB-TUO hotel.



# EDITORIAL BOARD

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DIPL. ING. PAVEL ZEMAN, PH.D., Czech Technical University in Prague, Czech Republic

# HIGH QUALITY PAPERS

High quality papers from the conference can be improved and we support submission into our Special Issues organized in high-prestigious Q1-Q2 journals indexed in Scopus and WoS.

In addition, it will be possible to send publications to special journals within the MDPI...

» **Polymers (IF 4.967):**

› SI: **Mechanical Behavior of Polymers: Processing and Characterization**,

editors: Dr. Jiří Hajnýš, Dr. Marek Pagáč, Dr. Jakub Měsíček, prof. Jana Petruš

» **Materials (IF 3.748):**

› SI: **Machining and Manufacturing of Alloys and Steels**,

editor: Robert Čep

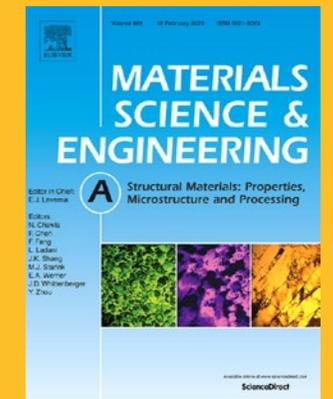
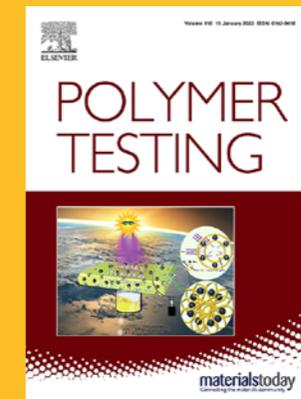
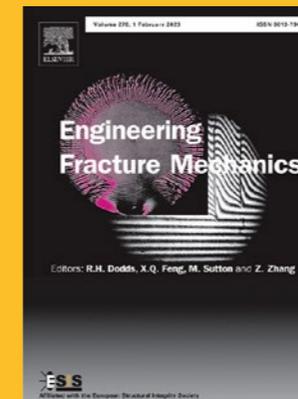
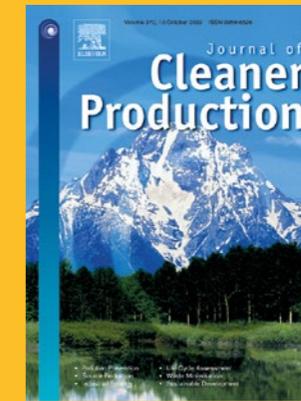
» **Electronics (IF 2.690):**

› SI: **Internet of Things for Smart City: Challenges and Solutions**,

editors: Dr. Van Dung Nguyen, Dr. Marek Pagáč

... and ELSEVIER publishing house in accordance with the publisher's requirements:

- » Additive Manufacturing (IF 11.632)
- » Journal of Cleaner Production (IF 11.072)
- » Sustainable Materials and Technologies (IF 10.681)
- » Composites Science and Technology (IF 9.879)
- » Alexandria Engineering Journal (IF 6.626)
- » Sustainability (IF 3.889)



electronics



materials



polymers



sustainability

# ACCOMPANYING EVENTS

## Dolní oblast Vítkovice visit

Vítkovice Ironworks is a heavy engineering enterprise, which is unique for its location directly in the urban area of Ostrava-Vítkovice. Industrial architecture, education, culture, connecting communities in the heart of Europe.

Link: [www.dolnivitkovice.cz/en/](http://www.dolnivitkovice.cz/en/)

## VSB-TUO Campus tour

Vítkovice Ironworks is a heavy engineering enterprise, which is unique for its location directly in the urban area of Ostrava-Vítkovice. Industrial architecture, education, culture, connecting communities in the heart of Europe.

Link: [www.vsb.cz/en/university/campus-life/](http://www.vsb.cz/en/university/campus-life/)

## Ostrava City

The metropolis of the Moravian-Silesian Region is the third-largest city in the country in terms of area and the third-largest in terms of population. It is strategically located 10 kilometers south of the border with Poland and 50 kilometers west of the border with Slovakia. It is 360 kilometers from the capital Prague, 170 kilometers from Brno, 90 kilometers from Katowice, Poland, and 310 kilometers from Vienna. The rivers Odra, Ostravice, Opava, and Lučina flow through the town.

Further tips for visits and excursions can be found on the [accommodation website](#).



Dolní oblast Vítkovice



VSB-TUO Campus



Ostrava City

# CONTACTS

## Head of the conference

- » Marek Pagáč, Executive Director of the Project I&AM and Conference SCFF23
- » Jana Petruš, Project Director I&AM and Conference SCFF23

## Organizing Committee

- » Jiří Hajnyš
- » Phu Ma Quoc
- » Jakub Měsíček
- » Aneta Slaninková
- » Jan Jansa
- » Jakub Brezina

## Contact email

- » [committeeSCFF23@vsb.cz](mailto:committeeSCFF23@vsb.cz)

## Accommodation

- » [Hotel Garni VŠB-TU Ostrava - Hotel Garni VŠB Ostrava | Restaurant \(hotelvsb.cz\)](#)

## Important links

- » Conference: [3dprint.vsb.cz/en/conference](https://3dprint.vsb.cz/en/conference)
- » Journal: [MM Science Journal | MM Science Journal](#)
- » Example of two-page abstract: [Two-Page Abstract Submission \(Oral\) \(ieee-nems.org\)](#)
- » Template: [Download | MM Science Journal](#)
- » Publisher: [MM Průmyslové spektrum \(mmspektrum.com\)](#)



VSB TECHNICAL UNIVERSITY OF OSTRAVA | FACULTY OF MECHANICAL ENGINEERING

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