

## Conference Scope

*Where science, industry and education meet*

DSMIE-2018 focuses on a broad range of research challenges in the fields of **Manufacturing Engineering, Mechanical Engineering** and **Chemical Engineering**, addressing current and future trends in design approaches, simulation techniques, computer-aided systems, software development, ICT tools and Industry 4.0 strategy implementation for engineering tasks solving.

## Important Dates

December 1, 2017 | Paper submission  
February 1, 2018 | Acceptance notification  
March 1, 2018 | Camera-ready version  
March 15, 2018 | Registration/Fee payment  
June 12-15, 2018 | Conference dates

<http://dsmie.sumdu.edu.ua>

*Together we can do more for science, technology, engineering and education.*

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**D S M : I E**  
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International Conference on  
**Design,  
Simulation,  
Manufacturing:  
The Innovation Exchange**

DSMIE-2018



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June 12-15, 2018  
Sumy, Ukraine

# Conference Topics

CAD/CAE Systems for Design of Products, Metalworking Equipment, Fixtures, Cutting Tools  
• CAPP/CAM/CAQ Systems for Advanced Manufacturing and Assembling Technologies • CAX Technologies for Manufacturing Engineering • Information Management Systems for Manufacturing Enterprises • Intelligent Manufacturing Systems • Flexible Manufacturing Systems, Automation and Robotics • Methods and Technologies for Additive Manufacturing • Numerical Simulation in Materials Science • Smart Manufacturing and Industry 4.0 Strategy • ICT for Engineering Education

## Manufacturing Engineering

## Mechanical Engineering

Engineering Design and Optimization Using CAD/CAE Software • Using CAE Software in Mechanics of Solids, Structures and Fluids • Computer Modeling of Fracture, Failure and Fatigue • Computational Techniques in Machine Mechanics and Dynamics • Numerical Methods for Dynamics, Acoustics and Vibration • Computational Methods for Control Theory • Numerical Simulation of Nonlinear Dynamic Systems • Simulation Software for Modeling Fluid-Structure Interaction • Multiphysics Analysis of Coupled Systems

## Chemical Engineering

Theoretical Fundamentals and Mathematical Modeling of Chemical Process Technology • Computational Fluid Dynamics, Thermodynamics, Heat and Mass Transfer • Numerical Simulation and Optimization of Industrial Chemical Processes • CAD/CAM/CAE Systems for Chemical Engineering and Plant Design • SCADA Process Control Systems for the Chemical Industry • Resource-Saving and Energy Efficient Technologies, Conversion and Utilization • Alternative and Renewable Energy, Generation and Recovery • Biotechnologies and Bioengineering, Bio-based Fuels, Food Technologies • Industrial Ecology, Sustainable Engineering and Ecological Design

 The working language of DSMIE-2018 (including conference proceedings, presentations and discussions) is English.

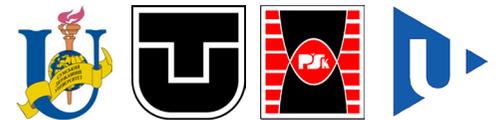
 Accepted papers must be presented at the conference by one of their authors, who commit to register and attend the conference.

 The Program Committee reserve the right to exclude papers which have not been presented from the proceedings.

DSMIE-2018 Conference Proceedings will be submitted to the database SCOPUS and other indexing services. Paper submission is supported by EasyChair Conference Management System.

## Organizer & Partners

Sumy State University (Ukraine)  
Technical University of Kosice (Slovak Republic)  
Kielce University of Technology (Poland)  
University of West Bohemia (Czech Republic)



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Survey

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