

## Organizers

- Sumy State University (Ukraine)
- Lutsk National Technical University (Ukraine)



## Partners

- Technical University of Kosice (Slovak Republic)
- Kielce University of Technology (Poland)
- University of West Bohemia (Czech Republic)
- Poznan University of Technology (Poland)
- Association for Promoting Innovative Technologies - InnovativeFET (Croatia)
- Industry in Focus (Ukraine)



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

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## Conference Scope

*Where science, industry and  
education meet*

DSMIE-2019 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.



**D S M I E**  
**2 0 1 9**

2<sup>nd</sup> International Conference on  
**Design, Simulation,  
Manufacturing:  
The Innovation Exchange**

DSMIE-2019



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June 11-14, 2019  
Lutsk, 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-2019 (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-2019 Conference Proceedings will be submitted to the database SCOPUS and other indexing services. Paper submission is supported by EasyChair Conference Management System. The submission page is <https://easychair.org/conferences/?conf=dsmie2019>



## Important Dates

November 20, 2018	Paper submission
December 20, 2018	Acceptance notification
January 15, 2019	Camera-ready version
February 1, 2019	Registration/Fee payment
June 11-14, 2019	Conference dates

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Previous Experience: DSMIE-2018  
**Advances in Design, Simulation and Manufacturing**  
DOI: 10.1007/978-3-319-93587-4