

1st CALL FOR PAPERS  
**Metal Forming 2018**



17th International Conference on Metal Forming  
September 16-19, 2018, Loisir Hotel Toyohashi, Toyohashi, Japan  
<http://plast.me.tut.ac.jp/metalforming2018/>

Chairs: K. Mori, Y. Abe, T. Maeno, D. Szeliga, K. Muszka, L. Fratini, F. Micari

The objective of Metal Forming 2018 is to provide a forum for presentations of theoretical, experimental and industrial achievements in metal forming processes. The conference will give an opportunity for scientists and engineers to discuss the results of recent research and technological developments in this area.

### Topics

#### Processes

- Rolling
- Forging
- Extrusion
- Drawing
- Sheet metal forming
- Deep drawing
- Bending
- Hydroforming
- Tube forming
- High energy & explosive forming
- Powder forming
- Super-plastic forming
- Semi-solid forming
- Micro- and nano-forming
- Incremental forming

- Joining
- Cutting

#### Deformation Mechanics

- Plasticity theory
- Constitutive models
- Defects and damage
- Formability
- Anisotropy
- Thermomechanical modelling
- Microstructural modelling
- Friction and lubrication

#### Process and System Modelling

- Analytical techniques
- Finite element methods
- Implicit/explicit formulations

- Multiscale modelling
- Inverse analysis
- CAD/CAM/CAE systems
- AI techniques
- Optimisation approaches
- Control of processes
- Tooling
- Sensing
- Additive manufacturing

#### Materials

- Ferrous and non-ferrous metals
- High performance metals
- Porous metals
- Composites
- Polymers

### Paper Submission

Prospective authors are invited to submit an abstract of one A4 page in English together with the completed pre-registration form by October 31, 2017 to e-mail: [metalforming@plast.me.tut.ac.jp](mailto:metalforming@plast.me.tut.ac.jp). Abstracts should outline the main features, results, figures and conclusions of the work. Final manuscripts must be prepared in English according to typing instructions, which will be supplied by the publisher. Submitted papers will be reviewed by members of the International Scientific Committee and, if accepted, published from "Procedia Manufacturing" in Elsevier. In addition, the Scientific Committee will select authors for invitation to submit an extended version of their conference paper to the journal "Manufacturing Review".

### Important Dates

October 31, 2017	Submission of one A4 page abstract
December 25, 2017	Notification of abstract acceptance
February 28, 2018	Submission of full paper
May 31, 2018	Notification of paper acceptance
June 15, 2018	Deadline for author payment

### Correspondence

Professor Ken-ichiro Mori  
Department of Mechanical Engineering, Toyohashi University of Technology, Toyohashi, Japan  
Fax.: +81-532-44-6690  
Email: [metalforming@plast.me.tut.ac.jp](mailto:metalforming@plast.me.tut.ac.jp)



Toyohashi University  
of Technology  
Toyohashi, Japan



AGH University of  
Science and Technology  
Kraków, Poland



University of Palermo  
Palermo, Italy