About the section *Mechanic Engineering*

The Mechanical Engineering Section is open to receive high-quality papers reporting state-of-the-art technology in the fields of solid mechanics, machine design, advanced manufacturing processes as well as other basic phenomena in this field. The section welcomes rudimentary and challenging studies concerning the basic and advanced design of components and structures subjected to in-service loading conditions. Fluid dynamics and thermodynamics are included in this section.

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Strength of materials and solid mechanics
- Linear elastic solutions
- Elasto-plastic solutions
- Stress distribution in real components
- Advance finite element modelling

Materials engineering design
- Design of composites
- Design of light alloys
- Design of traditional materials
- Design of cast iron

Thermodynamics
- Heat transfer
- Energy conversion
- Internal combustion engines

Fluid mechanics
- Fluid statics
- Fluid dynamics
- Applications for hydropower transmission

Mechanisms and machine design
- Design against fracture
- Design against fatigue
- Engineering design and product design
- Computer-aided design (CAD)
- Computer-aided manufacturing (CAM)

Instrumentation and measurement
- Stress and strain measurement
- Thermodynamic measurement
- Vibration measurement
- Fluid mechanics measurement

Manufacturing engineering, technology, or processes
- Welding
- Bolted connections
- Bonded connections
- Advanced bonding processes
- Advanced manufacturing processes

Vibration, control theory and control engineering
- Vibration in real components
- Design against vibration
- Control systems

Mechatronics and Automation
- Robotics
- Servo-mechanics
- Sensing and control systems
- Computer-machine controls
- Sensor design
- Industrial automation
**Special Issue Books**

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Editors: Zheng Lu, Tony Yang, Ying Zhou and Angeliki Papalou

**Advanced Asphalt Materials and Paving Technologies**  
Editors: Zhanping You, Qingli (Barbara) Dai and Feipeng Xiao

**Content Highlights**

**A Multi-Usable Cloud Service Platform: A Case Study on Improved Development Pace and Efficiency**  
Authors: John Lindström, Anders Hermanson, Fredrik Blomstedt and Petter Kyösti

**State of the Art: Bipedal Robots for Lower Limb Rehabilitation**  
Authors: Xiong Yang, Haotian She, Haojian Lu, Toshio Fukuda and Yajing Shen

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