

Special Session **SS_11**

Mechatronics in mechanical engineering –perspective and new solutions

Brief description of the specific scientific scope of the Special Session:

The proposed session will focus on new technical solutions in the field of mechatronics. Currently, practically every mechanical device, including those operating on production lines, is equipped with electronic control systems based on a PLC or microprocessor systems. These systems often operate on the basis of artificial intelligence algorithms and fit into the concept of industry 4.0. Will be discussed, among others. topics related to: machine vision, wireless data collection on the condition of devices, supervision of production lines.

List of topics of interest

1. Mechatronics devices
2. Control systems in mechanical engineering
3. Machine learning
4. Vision system
5. Mechatronic systems supervision

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