Faculty of Mechanical Engineering, Department Automation of Discrete Production Engineering at Technical University of Sofia (TUS), Sofia, Bulgaria

Proceeding of 34th International Scientific and Technical Conference

# Automation of Discrete Production Engineering 2025

Sozopol, Bulgaria 29 June – 2 July 2025

Editor **Prof. Reneta Dimitrova, PhD** Technical University of Sofia, Bulgaria

# АЗ. Буки

Az-buki National Publishing House Sofia, 2025

Proceeding of 34th International Scientific and Technical Conference AUTOMATION OF DISCRETE PRODUCTION ENGINEERING 2025

Website: https://mf.tu-sofia.bg/mntkadp/en/home/

Editor: Prof. Reneta Dimitrova, PhD Technical University of Sofia, Bulgaria

Publisher: Az-buki National Publishing House

ISBN: 978-619-7667-74-5

### DOI: 10.53656/adpe-2025

The Microsoft CMT service was used for managing the peer-reviewing process for this conference. This service was provided for free by Microsoft and they bore all expenses, including costs for Azure cloud services as well as for software development and support. All papers are double-blind peer reviewed.

Since 1998, the department has held annually International Scientific and Technical Conference "Automation of Discrete Production Engineering" within the scientific days of the Technical University of Sofia. The conference is attended by leading scientists from Bulgaria and abroad. A special session is held, where innovative developments of students and young scientists are presented. Presentation of companies working in the field of automated discrete production and mechatronics is organized. Within the framework of the conference, a Round Table is held where current issues and problems of education, science and business are discussed.

The conference is organized by the Department of "Automation of Discrete Production Engineering" at the Faculty of Mechanical Engineering of the Technical University of Sofia. The topic of the conference is in the field of mechatronics, automation and robotization of discrete production. Nine main scientific directions are distinguished:

- Theoretical problems of automation of discrete production engineering
- Technologies and machines for automated discrete production engineering
- Automate the flow of parts
- Industrial robots and robotic complexes
- -Assembly automation
- Mechatronics
- Control systems in discrete production engineering
- Innovation and engineering of automation of discrete production engineering
- CAD/CAM/CAE systems and virtual engineering

XXXIV International Scientific and Technical Conference "Automation of Discrete Production Engineering 2025" (XXXIV ISTC "ADP 2025"), from June 29 to July 2 2025 in the city of Sozopol.

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This conference has been held with financial support by the European Regional Development Fund within the Operational Programme "Bulgarian national recovery and resilience plan", procedure for direct provision of grants "Establishing of a network of research higher education institutions in Bulgaria", and under Project BG-RRP-2.004-0005 "Improving the research capacity and quality to achieve intErnAtional recognition and reSilience of TU – Sofia (IDEAS)".

The Organizing Committee thanks the Research and Development Sector at the Technical University of Sofia and the companies VANIKO OOD – Blagoevgrad, KMS Engineering OOD – Plovdiv and Logisoft OOD – Sofia for their financial support in holding the conference. The Organizing Committee thanks all participants for the timely submission of scientific reports and compliance with the conference requirements.

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