

---

## ABSTRACTS

---

<https://doi.org/doi:10.22306/am.v9i3.115>

*Received: 07 Aug. 2024*

*Revised: 29 Aug. 2024*

*Accepted: 14 Sep. 2024*

### Conceptual design of control system for component sorting

(pages 15-20)

**Oleksandr Postrygan**

ATS Automation Tooling Systems Inc., 730 Fountain Street North, Building #2, Cambridge, Ontario, Canada,  
oleksandr.postrygan@gmail.com

**Keywords:** conveyor, controlling, simulation, sorting.

**Abstract:** This article deals with the conceptual design of the control system for a line intended for sorting products. It is an automated workplace with sensor differentiation of products and subsequent separation. The preliminary arrangement of the workplace and the placement of sensors and actuators is proposed. Control networks for the control system in the form of block diagrams are also proposed.

---

<https://doi.org/doi:10.22306/am.v9i3.118>

*Received: 15 Aug. 2024*

*Revised: 02 Sep. 2024*

*Accepted: 17 Sep. 2024*

### Wheeled robot for rough terrain

(pages 21-26)

**Branislav Uljan**

Technical University of Kosice, Faculty of Mechanical Engineering, Letna 9, Kosice, Slovak Republic, EU,  
branislav.uljan@tuke.sk

**Michal Kelemen**

Technical University of Kosice, Faculty of Mechanical Engineering, Letna 9, Kosice, Slovak Republic, EU,  
michal.kelemen@tuke.sk (corresponding author)

**Keywords:** robot, wheeled, rough terrain, pwm, sensor.

**Abstract:** The article deals with the design of a robot chassis intended for movement on uneven terrain. The chassis is composed of a front part with two parallel arranged wheels and two tiltable parts with serially placed wheels. This concept adapts to uneven ground surfaces.

---