

# ECKM 2023

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## Mini Track on Challenges for the Knowledge and Competencies of Managers and Engineers in the Industry 5.0 Environment

Mini Track Chair: Assoc. Prof. Sebastian Saniuk, University of Zielona Góra, Poland



Fourth industrial revolution and the digitization this has caused are having an effect on all areas of the economy and society. These changes can affect all areas of human life to an unprecedented degree. The fourth industrial revolution leads to changes in the employment structure; employees and managers need new competencies, skills and knowledge. Now, a key objective of much of the current research is to identify the critical knowledge and skills of the engineers responsible for implementing these technologies.

Modern research should consider aspects related to ensuring sustainable development of the economy, sustainable production and consumption, with particular emphasis on the evolving concept of Industry 5.0. This idea implies the return of the human factor to industry, i.e. increased collaboration between people and intelligent cyber-physical systems. The future industry means combining the smart industry with cognitive skills and critical-thinking employees.

Suggested topics include but are not limited to:

- Industry 5.0 – challenges;
- humanization of Industry 4.0 towards the Industry 5.0 concept;
- sustainable working environment;
- knowledge and skills development for Industry 4.0 and 5.0;
- resilience, sustainable development, human factor;
- challenges of the engineering education system;
- cognitive technologies;
- leadership skills for Industry 5.0.



**Assoc. Prof. Dr hab. Eng. Sebastian Saniuk** is employed as a professor at the University of Zielona Góra (Poland). Since 2015 he is a member of the Committee of Production Engineering of the Polish Academy of Sciences. His research interests include issues related to production management, industrial engineering and logistics, employees' knowledge and skills, sustainable development, corporate social responsibility, particularly planning and control of production flow and modelling of production networks of SME's, rapid prototyping, CSR in SME's. The results of his research have been presented in over 270 national and international scientific publications including journals, monographs and conference proceedings of national and international conferences indexed in Web of Science and Scopus database (in countries including: China, Turkey, Slovakia, Czech Republic, Croatia and Germany). During his career, he has conducted research under several grants awarded and funded by the Polish Ministry of Science and Higher Education, The National Centre for Research and Development and the European Union. H-index=14 (WoS), h-Index=15 (Scopus).

### Submission details

In the first instance a 300 word abstract is required, to be received by **15 February 2023**. Submissions must be made using the online submission form at: <http://www.academic-conferences.org/conferences/eckm/eckm-call-for-papers/>

If you have any questions about this track, please email the mini track chair: [s.saniuk@wez.uz.zgora.pl](mailto:s.saniuk@wez.uz.zgora.pl)

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