



Ing. Marek Mizerák

Doctoral student

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CURRICULUM

2013 – 2019: Technical University of Kosice, Faculty of Mechanical Engineering

2019 – 2023: Doctoral studies

LANGUAGE SKILLS

- English
- Russian

SCIENTIFIC ACTIVITIES

- 3D scanning of production halls
- Industrial localization using RTLS systems
- Digital engineering

PEDAGOGICAL ACTIVITIES

- Digitisation and virtualisation of production
- General economic theory
- Operational management
- Logistics systems

PROJECTS

- 1 **APVV-17-0258** Digital engineering elements application in innovation and optimization of production flows (co-investigator).

- 2 **APVV-19-0418** Intelligent solutions to enhance business innovation capability in the process of transforming them into smart businesses (co-investigator).
- 3 **VEGA 1/0438/20** Interaction of digital technologies to support software and hardware communication of the advanced production system platform (co-investigator).
- 4 **KEGA 001TUKE-4/2020** Modernizing Industrial Engineering education to Develop Existing Training Program Skills in a Specialized Laboratory (co-investigator).
- 5 **VEGA 1/0508/22** „Innovative and digital technologies in manufacturing and logistics processes and system“ (co-investigator).

FOREIGN STAYS

- University of West Bohemia in Pilsen, Faculty of Mechanical Engineering, Department of Industrial Engineering and Management

MEMBERSHIPS, AWARDS

NUMBER OF PUBLICATIONS:54

NUMBER OF CITATIONS: 25

SELECTED PUBLICATION

- **3D scanning technologies and the 3D scanning process** / Peter Trebuňa, Marek Mizerák, Milan Edl - 2019.In: Paripex-Indian Journal of Research = PIJR. - Paldi (India) : World Wide Journals Roč. 8, č. 4 (2019), s. 1-3 [print]. - ISSN 2250-1991
- **3D Scaning – Technology and reconstruction** / Peter Trebuňa, Marek Mizerák, Ladislav Rosocha - 2018.In: Acta simulatio : international scientific journal about simulation. - Šemša (Slovensko) : 4S go Roč. 4, č. 3 (2018), s. 1-6 [online]. - ISSN 1339-9640
- **3D laser scanners: history and applications** / Milan Edl, Marek Mizerák, Jozef Trojan - 2018.In: Acta simulatio : international scientific journal about simulation. - Šemša (Slovensko) : 4S go Roč. 4, č. 4 (2018), s. 1-5 [online]. - ISSN 1339-9640
- **Optimalizácia produkčnej linky s použitím modulu Plant Simulation** / Jozef Trojan, Marek Mizerák - 2019.In: Novus Scientia 2019 : zborník príspevkov zo XVI. medzinárodnej vedeckej konferencie doktorandov strojníckych fakúlt technických univerzít a vysokých škôl. - Košice (Slovensko) : Technická univerzita v Košiciach s. 94-96 [CD-ROM]. - ISBN 978-80-553-3249-9
- **The internet of things as a digital economy tool** / Marek Mizerák ... [et al.] - 2022.In: Maneko : MANažment a EKOnomika podniku. - Bratislava (Slovensko) : Oddelenie manažmentu chemických a potravinárskych technológií Roč. 14, č. 1 (2022), s. 49-54 [print, online]. - ISSN 1337-9488 Spôsob prístupu: http://www.maneko.sk/casopis/pdf/1_2022.pdf.

[MIZERÁK, Marek - PEKARČÍKOVÁ, Miriam - TROJAN, Jozef - KOPEC, Ján]

- **Innovation of the Production Line in the Enterprise with the Help of Module TX Process Simulate** / Jozef Trojan, Peter Trebuňa, Marek Mizerák - 2020.In: New Approaches in Management of Smart Manufacturing Systems : Knowledge and Practice. - Cham (Švajčiarsko) : Springer Nature s. 303-310 [online, print]. - ISBN 978-3-030-40175-7

[TROJAN, Jozef - TREBUŇA, Peter - MIZERÁK, Marek]

- **Simulation testing of the e-kanban to increase the efficiency of logistics processes** / Miriam Pekarčíková ... [et al.] - 2021.In: International Journal of Simulation Modelling = IJSIMM. - Wolkersdorf

im Weinviertel (Rakúsko) : DAAAM International Vienna Roč. 20, č. 1 (2021), 134-145 [print]. - ISSN 1726-4529 Spôsob prístupu: <https://doi.org/10.2507/JSIMM20-1-551>.

[PEKARČÍKOVÁ, Miriam - TREBUŇA, Peter - KLIMENT, Marek - MIZERÁK, Marek - KRÁL, Štefan]

- **Digitalizácia výrobných procesov a systémov** / Peter Trebuňa ... [et al.] - 1. vyd. - Košice : Technická univerzita v Košiciach - 2020. - 343 s.. - ISBN 978-80-553-3781-4.

[TREBUŇA, Peter - KLIMENT, Marek - TROJAN, Jozef - MIZERÁK, Marek]

- **Modelling and simulation of production systems in industrial and digital engineering** / Peter Trebuňa ... [et al.] - 1. vyd. - Lüdenscheid : RAM-Verlag - 2019. - 441 s. [print]. - ISBN 9783942303927.

[TREBUŇA, Peter - PEKARČÍKOVÁ, Miriam - KLIMENT, Marek - TROJAN, Jozef - MIZERÁK, Marek]