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**PhD.**  
*Profesor*

*contact*

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***CURRICULUM***

2013 – 2019: Technical University of Kosice, Faculty of Mechanical Engineering  
2019 – 2023: Doctoral studies

1998 - 2003: Ing. Technical University of Košice, Faculty of Economics - Finance, banking and investing  
1999 - 2003: Ing. Technical University of Košice, Faculty of Engineering - Economics and management  
of engineering production  
2003 - 2007: PhD. STU Bratislava, Faculty of Materials Technology located in Trnava - Business  
Management  
2006 - 2008: ING-PAED IGIP Technical University of Košice, Department of Engineering Education  
2007 - 2010: doc. Technical University in Košice, Faculty of Mechanical Engineering - Industrial  
Engineering  
2016: prof. Technical University in Košice – Industrial Engineering  
2021: head of the KPaDI department

***LANGUAGE SKILLS***

- English
- French

***SCIENTIFIC ACTIVITIES***

- Digital engineering, digital twin, industrial engineering, modeling and simulation of production processes and systems, logistics.

***PEDAGOGICAL ACTIVITIES***

- Lectures on the subjects: Business processes and systems, Digitization and virtualization of production, Modeling and simulation of logistics processes, Business economics, Business strategies, Supply and distribution logistics, Laboratory training, Human resource management, Human resource management.
- Conducting exercises in the subjects: Business Administration, General Economic Theory, Supply and Distribution Logistics, Personnel Management, Semester Project.

## **PROJECTS**

- 1 VEGA 1/0708/16 Development of new research methods for the purpose of simulation, assessment, evaluation and quantification of advanced production methods. (responsible solver)
- 2 VEGA 1/0102/11: Methods and techniques of experimental modeling of in-house production and non-production processes. (responsible solver)
- 3 VEGA no. 1/0328/09: Design of new methods and techniques of restructuring intra-company production and non-production processes in industrial practice enterprises in Slovakia (responsible researcher)
- 4 VEGA 1/2198/05 The use of Internet marketing as a tool for increasing the competitiveness of domestic entities after the accession of the Slovak Republic to the EU. (representative of the responsible solver)
- 5 State research and development program 2003-2006 SP 51/028 09 11: Improving the educational level of creative (creative) industry employees, research into new methodologies, development of the use of experimental diagnostic and simulation methods in material diagnostics and construction for the needs of industrial practice, ensuring increased competitiveness engineering and electrical industry. (co-author)
- 6 KEGA 004TUKE-4/2013: Intensification of modeling in teaching II. and III. degree in the field of study 5.2.52 Industrial engineering (responsible researcher)
- 7 KEGA 030TUKE-4/2017 Implementation of innovative tools for improving the quality of higher education in the field of study 5.2.52 Industrial engineering (responsible researcher)
- 8 8. KEGA 001TUKE-4/2020 Modernization of the teaching of industrial engineering for the purpose of developing skills

## **MEMBERSHIPS, AWARDS**

### **Magazines**

- Chairman of the editorial board of Acta Simulatio magazine
- Vice-chairman of the editorial board of Management of companies magazine
- Member of the editorial board of the magazine Strojárstvo
- Member of the editorial board of Acta Logistica magazine
- Member of the editorial board of Acta Mechatronica magazine
- Member of the editorial board of Acta Technologia magazine scientific

### **Advice**

- Faculty of Special Technology of the Alexander Dubček University of Trenčín
- Faculty of Mechanical Engineering of the Technical University in Košice

### **The others**

- member of commission No. 2 of the Cultural and Educational Grant Agency of the Ministry of Education and Culture of the Slovak Republic
- member of the top scientific team in the field of research 17. - engineering and technology
- member of the working group science and research of the Association of the Automobile Industry of the Slovak Republic

- member of the evaluation committee of the National Prize of the Slovak Republic for quality

***NUMBER OF PUBLICATIONS: more than 520***

***NUMBER OF CITATIONS: more than 600***

### **SELECTED PUBLICATION**

- **AAA Modelling and simulation of production systems in industrial and digital engineering / Peter Trebuňa ... [et al.] - Lüdenscheid : RAM-Verlag - 2019 ISBN 9783942303927.**
- **AAA Supply and distribution logistics / Peter Trebuňa ... [et al.] - Ostrava: Amos – 2013 ISBN 978-80-87691-02-1.**
- **AAB Aplikácia vybraných metód modelovania a simulácie v priemyselnom inžinierstve / Peter Trebuňa - Košice: TU, SJF – 2017 - ISBN 978-80-553-2835-5.**
- **ACB Metódy a systémy riadenia výroby v priemyselnom inžinierstve / Peter Trebuňa ... [et al.] - Košice: Technická univerzita v Košiciach - 2019. ISBN 978-80-553-3280-2**
- **ADC Material flow optimization through e-kanban system simulation / Miriam Pekarčíková ... [et al.] - 2020. In: International Journal of Simulation Modelling = IJSIMM. - Wolkersdorf im Weinviertel (Rakúsko) : DAAAM International Vienna Roč. 19, č. 2 (2020), s. 243-254 [print]. - ISSN 1726-4529**
- **ADC Production efficiency evaluation and products' quality improvement using simulation / Marek Kliment ... [et al.] - 2020. In: International Journal of Simulation Modelling = IJSIMM. - Wolkersdorf im Weinviertel (Rakúsko) : DAAAM International Vienna Roč. 19, č. 3 (2020), s. 470-481 [print]. - ISSN 1726-4529**
- **ADC Petri nets as a tool for production streamlining in plastics processing / Peter Trebuňa ... [et al.] - 2015. In: Przemysl chemiczny. Vol. 94, no. 9 (2015), p. 1605-1608. - ISSN 0033-2496**
- **ADC Simulation of the process for production of plastics films as a way to increase the competitiveness of the company / Martin Straka ... [et al.] - 2016. In: Przemysl chemiczny. Vol. 95, no. 1 (2016), p. 37-41. - ISSN 0033-2496**
- **ADC Design of colored Petri net models for streamlining of chemical production / Peter Trebuňa ... [et al.] - 2016. In: Przemysl Chemiczny. Vol. 95, no. 7 (2016), p. 1300-1303. - ISSN 0033-2496**
- **ADC Analysis of possible causes of cracks initiation on barking drum / Peter Trebuňa ... [et al.] - 2014. In: Engineering Failure Analysis. Vol. 45 (2014), p. 106-117. - ISSN 1350-6307**
- **ADM Optimization and Elimination of Bottlenecks in the Production Process of a Selected Company / Peter Trebuňa ... [et al.] - 2014. In: Applied Mechanics and Materials. Vol. 611 (2014), p. 370-375. - ISSN 1660-9336**
- **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**