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Prof. Dr. Katarina Monková was inaugurated in the field of mechanical engineering at the University of West Bohemia in Pilsen (Czech Republic). She completed her engineering studies at the Faculty of Mechanical Engineering of the Technical University in Košice Slovakia and graduated as the best student of the year (1/187) with the Rector's Award for excellent results achieved during her studies with a rating of 1.00 (and all exams for the first attempt). Since then, she has been working continuously at the Faculty of Manufacturing Technologies of the Technical University in Košice with a seat in Prešov, Slovakia, and she currently works as a professor in the field of Production Engineering. Her theoretical knowledge and extensive activities for industrial companies allow her to combine scientific and professional activities in the field of design of production technologies and technical equipment with areas of interest, such as metamaterials or simulation of technical components. She is a member of many international scientific organizations (ESIS, SCIEI, IAENG, WASET, IACSIT, SAISE, etc.); member, co-chair and chair of the scientific committees at many domestic and foreign conferences, as well as a member of evaluation commissions and graduate committees. Katarina Monkova is a member of the Sectoral Verification and Evaluation Panels for Technical Information Sciences and Council for Research, Development and Innovation at the Office of the Government of the Czech Republic; and she is like the only woman a member of the "Advanced Manufacturing Technologies Research Team (AMTRteam)" - Top Team of Slovakia in the Mechanical Engineering field. She is also a member of editorial boards and a reviewer of articles in many distinguished journals. During her many years of work at FMT TU Košice, she has been a responsible researcher and a member of the teams of many international and domestic projects. At present, she is an author of more than 350 publications at home and abroad, the main author of 9 monographs and 9 university textbooks and scripts.