

# PREFACE

*„Information is not knowledge.“*  
*A. Einstein*

Special Topic Volume entitled *Operation and Diagnostics of Machines and Production Systems Operational States III* is focused on the operation, technology and diagnostics of operational states of machines and manufacturing systems. The topic covers research fields that are mainly solved at the Faculty of Manufacturing Technologies (FMT) of Technical University of Košice (TUKE) with a seat in Prešov for long period of time. Dealing with such kind of research is necessarily associated with high theoretical demands, so authors would like to disseminate achieved knowledge in research, educational and entrepreneurial areas.

The Volume contains selection of scientific papers that present knowledge resulting mainly from work within scientific projects supported by the Structural Funds of the European Union, by the grants of Slovak Ministry of Education within agencies VEGA and KEGA; by the institutional tasks of the FMT TUKE and also by other projects.

Substantial part of the presented experimental work was performed at internal laboratories of the FMT. Another part of the contributions reports also the knowledge based on scientific cooperation of the international teams consisting of FMT researchers and collaborating institutions and laboratories.

More detailed, papers within this volume are focused at monitoring and diagnostics of operational states of machining and other technical devices. Objects are investigated by using specific models, tools and instruments along with their verification and evaluation of the operation and operational states of technical systems. Part of presented achievements is sourcing from the research performed with participation of young researchers. We are pleased that the collection includes significant part of scientific papers of young researchers.

Finally, we hope that knowledge presented in this collection as well as methods, technical systems and their applications have strong potential to attract and impress researchers as well as other professionals and will contribute to the process of giving an answers that still are to be given or questions that still are to be formulated.

Tibor Krenicky, Dr, PhD