

Preface

Ladies and Gentlemen, dear Readers,

the issue “Applied Mechanics and Mechatronics II.” of periodical “Applied Mechanics and Materials” summarizes papers with focus on mechanical and mechatronic systems. This publication is realized by Department of Mechatronics and Department of Applied Mechanics and Mechanical Engineering, Faculty of Mechanical Engineering, Technical University of Košice.

The issue “Applied Mechanics and Mechatronics II.” contains results of research from researchers and designers from several prominent universities and research institutes of Central Europe.

The publication is divided into three following chapters

- Chapter 1: Design, Modeling and Research of Mechanical and Mechatronic Systems
- Chapter 2: Development and Modification of Computational Methods and Algorithms
- Chapter 3: Experimental Methods of Measurements and Analysis in Engineering Practice
- Chapter 4: Industrial Engineering of Modern Production

The submitted publication provides insight on modern approaches and methods in designing, modeling and experimental analyzing of mechanical and mechatronic systems.

František Trebuňa
issue editor

Committees

Guest Editor

Dr.h.c. mult. prof. Ing. František Trebuňa, CSc.

Honorary and Technical Committee

Dr.h.c. mult. prof. Ing. František Trebuňa, CSc., TU of Košice, SjF, SK

Dr.h.c. mult. prof. Ing. Juraj Sinay, DrSc., TU of Košice, SjF, SK

Dr.h.c. prof. Ing. Miroslav Badida, PhD., TU of Košice, SjF, SK

Dr.h.c. mult. prof. Ing. Antonín Víteček, CSc., VŠB TU Ostrava, CZ

prof. Ing. František Šimčák, CSc., TU of Košice, SjF, SK

prof. Ing. Jozef Bocko, CSc., TU of Košice, SjF, SK

Dr inż. Grzegorz Domek, Uniwersytet Kazimierza Wielkiego, Bydgoszcz, PL

prof. RNDr. Miroslav Hrabovský, DrSc., LO UP Olomouc, CZ

prof. RNDr. Michael Valášek, DrSc., FS, ČVUT in Praha, CZ

prof. Ing. Josef Rosenberg, DrSc., ZCU in Plzeň, CZ

prof. Ing. Jiří Křen, CSc., ZCU in Plzeň, CZ

prof. Ing. Štefan Segľa, CSc., TU of Košice, SjF, SK

prof. Ing. Peter Šolek, CSc., STU Bratislava, SjF, SK

doc. Ing. Juraj Wagner, PhD., MŠ SR, SK

Dr inż. Piotr Kuryło, Uniwersytet Zielonogórski, Zielona Góra, PL

prof. Dr. Ing. Milan Sága, ŽU in Žilina, SjF, SK

prof. Ing. Alexander Gmíterko, PhD., TU of Košice, SjF, SK

prof. Ing. Horyl Petr, CSc., VSB TU Ostrava, FS, CZ

prof. Ing. Ladislav Starek, CSc., STU Bratislava SjF, SK

prof. Ing. Ján Vavro, PhD., TnUAD, Trenčin, SK

prof. Ing. Stanislav Holý, CSc., FS, ČVUT in Praha, CZ

prof. Ing. Milan Růžička, CSc., FS, ČVUT in Praha, CZ

prof. Dr. Ing. Vladimír Mostýn, VSB TU Ostrava, FS, CZ

Dr inż. Władysław PAPACZ, Uniwersytet Zielonogórski, Zielona Góra, PL

prof. Ing. Milan Žmindák, CSc., ŽU in Žilina, SjF, SK

prof. Ing. Ján Vittek, CSc., ŽU in Žilina, FE, SK

prof. Ing. Pavel Élesztös, PhD., STU Bratislava SjF, SK

prof. Ing. Jindřich Petruška, CSc., VUT in Brno, FSI, CZ

prof. Ing. Vladislav Laš, CSc., FAV, ZCU in Plzeň, CZ

prof. Ing. Pavol Špánik, PhD., ŽU in Žilina, EF, SK

doc. Ing. Shimanovskyi Alexandre, PhD., Belarusian State Univ., Gomel, BLR

doc. RNDr. Matej Daniel, Ph.D., ČVUT in Praha, CZ

prof. Ing. Michal Kelemen, PhD., TU of Košice, SjF, SK

doc. Ing. František Duchoň, PhD., STU Bratislava, FEI, SK

doc. Ing. Marek Laciak, PhD., TU of Košice, FBERG, SK

doc. Ing. Peter Trebuňa, PhD., TU of Košice, SjF, SK

doc. Ing. Vladimír Rudy, PhD., TU of Košice, SjF, SK

Ing. Bohumir Jelinek, PhD., Mississippi State University, USA

doc. Ing. Peter Frankovský, PhD., TU of Košice, SjF, SK

Ing. Ivan Virgala, PhD., TU of Košice, SjF, SK

Ing. Gergely Takács, PhD., STU Bratislava SjF, SK