

## Preface

The edited book titled “Research in Engineering and Management of Advanced Manufacturing Systems” is compilation of invited and selected papers originally presented at from the 4th International Conference on Management of Manufacturing Systems (MMS 2014) held in High Tatras, Slovakia, in October, 1-3, 2014.

This book is for an engineering audience who interested in advanced manufacturing systems and operations management and it is also intended to support the teachers, doctoral scholars, decision makers in industry, and students educated in this field. Advanced manufacturing systems cover both manufacturing of high-tech products and use of innovative techniques in manufacturing. The increased importance of these highly automated manufacturing systems resulted in increasing research in the development of better representations of the organization patterns and better techniques for exploiting it.

The mission of this book, which consists of 41 papers, is to present recent knowledge and advancements in the research area. “*Research in Engineering and Management of Advanced Manufacturing Systems*” is organized in four chapters.

Chapter 1: “*Modern trends in Manufacturing Management*” presents selected problems of managerial decision making.

Chapter 2: “*Machines and Equipments of Manufacturing Systems*” offers some technical decisions in area of machines, equipments and technologies for improvement of manufacturing processes operation.

Chapter 3: “*Logistics and RFID*” covers a wider spectrum of logistics issues in advanced manufacturing systems and focuses on RFID possibilities and obstacles in supply chain management.

Chapter 4: “*Researching and Designing of Industrial and Manufacturing Systems*”

The editors believe that the book will gain attention from colleagues worldwide and hope that it will help manufacturing managers to improve their work effectiveness and efficiency.

# MMS 2014 List of committees

## Honorary Chairman

ZAJAC Jozef, Prof. Dr.  
Dean, Faculty of Manufacturing Technologies with a seat in Prešov, Technical University of Košice

## General Chairmen

MODRÁK Vladimír, Prof. Dr.  
BALOG Michal, Assoc. Prof.

## International Program Committee

Herbert Sonntag	Martin Straka
Jozef Kováč	Janusz Grabara
Béla Illés	Andrea Rosová
Ján Štefánik	Zoran Krakutovski
Róbert Štefko	Alessandro Ruggiero
Darko Moslavac	Helena Vídová
Václav Cempírek	Dagmar Cagáňová
Zdeněk Dvořák	Ladislav Drabík
Kristof Witkowski	Miroslav Karafa
Vladimír Strakoš	Jakub Unucka
Maria Nowicka-Skowron	Ľubomir Palčák
Mariana Man	Daniel Tomko
Ion Constantin Dima	Imrich Smaržík
Ján Mikolaj	Jaroslav Mervart
Miloš Grujić	

## Organizing Committee

SEMANČO Pavol	PERŽEL Vincent
HUSÁR Jozef	MATISKOVÁ Darina
HRICOVÁ Romana	BEDNÁR Slavomír
FLIMEL Marián	