

Book Announcement

INDUSTRY 4.0 - RENAISSANCE OF ENGINEERING First Edition, 2022

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About the book

The main purpose of this Monograph is to provide students, engineers and researchers with the latest knowledge about Industry 4.0 from the following aspects: (a) what Industry 4.0 is and how it came about, what it is and what the National Industry 4.0 Programs cover. What is the National Program of Serbia for this model, (b) what are its basic elements and how do they work in this model, (c) what engineering knowledge is needed for this concept, and what is our research in this area, (d) what this model means for other industries and how to apply it, and (e) what is the vision of this model in the next decade, until 2030, and in which direction this model will develop.

The authors has been intensively involved in this field since 2015, so this Monograph presents a systematization of their knowledge of Industry 4.0 from the following aspects: (a) prepared and held five International Conferences on Industry 4.0 at the Faculty of Mechanical Engineering in Belgrade, thousand participants from the country and the world, (b) held 35 Panels on Industry 4.0 in our country, (c) published 42 papers at international conferences, domestic and foreign journals, or chapters in domestic and foreign monographs, (e) held more than 20 invited lectures in the country and the world on the topic of Industry 4.0, and (f) realized dozens of projects for domestic factories, through research tasks related to business organization and preparation for the application of elements of Industry 4.0 in their environment.

Keywords: industry 4.0, new book announcement

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BOOK CHAPTERS**1. INDUSTRY 4.0 – INTRODUCTION (10 pages)**

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 - 1.1.3. The third industrial revolution - 1970
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- 2.3. Horizontal and vertical integration
- 2.4. Industrial internet things
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- 2.6. Simulation
- 2.7. Augmented reality
- 2.8. Big data and their analytics
- 2.9. Additive production
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- 4.4. World Economic Forum and Industry 4.0
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- 5.1. Serbia - Digital Platform for Industry 4.0 Literature

6. EDUCATION OF ENGINEERS FOR INDUSTRY 4.0 (12 pages)

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- 6.3. Education of Mechanical Engineers for Industry 4.0
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**12. INDUSTRY 4.0 - WHAT IS THE
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Literature

APPENDIX - Meaning of abbreviations

Company Inmold

Excerpts from reviews

Author's biographies