

1. Record Nr.	UNINA9910869167803321
Titolo	Mechatronics – Industry-Inspired Advances // edited by Adam Martowicz, Micha Maka, Krzysztof Mendrok
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	3-031-63444-6
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (175 pages)
Collana	Lecture Notes in Networks and Systems, , 2367-3389 ; ; 1042
Disciplina	629.892
Soggetti	Mechatronics Engineering mathematics Engineering - Data processing Software engineering Mathematical and Computational Engineering Applications Software Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	This book addresses the key aspects concerning the rapid development of mechatronics. It also helps to understand the respective great significance of cooperation between researchers and professionals. Mechatronics is crucial for many areas of life. However, its invaluable contribution is particularly seen in the Fourth Industrial Revolution (Industry 4.0). In response to the current issues in mechatronics, the 6th International Conference Mechatronics 2023: Ideas for Industrial Applications was organized from 11 to 13 December 2023 in Krakow, Poland. The following topics were discussed: artificial intelligence, robotics, image processing, software, control systems, space applications, modeling and identification of mechatronic systems, smart materials, and prototype construction with 3D printing. This book provides the solutions ready for implementation in industry. These solutions grew out of the ideas exchange between the Conference attendees representing various backgrounds.