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Titolo	International Conference on Reliable Systems Engineering (ICoRSE) - 2024 // edited by Daniela Doina Cioboat
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ISBN	3-031-70670-6
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (360 pages)
Collana	Lecture Notes in Networks and Systems, , 2367-3389 ; ; 1129
Disciplina	621
Soggetti	Mechatronics Industrial management Computational intelligence Industrial Management Computational Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Improving the drive of a multi-operational machine with a multi v-ribbed belt -- Characterisation of the cooling system performance of additively manufactured thermoforming moulds -- Analysis of the efficiency of quality control algorithms for modified surfaces for high-error processes based on 2d miniatures and non-visual information -- Features of modification of the roughness and hardness of the surface of aisi 321 stainless steel with short-pulse laser radiation -- Analysis of the efficiency of agricultural tires for low-power electric tractors -- Switching-time and heat produced at drivetrains with centrifugal clutches -- Industry 4.0. Upsides and downsides. Towards industry 5.0 -- Effect of the effective dynamic viscosity of plastic lubricants produced from secondary raw materials on their tribological properties -- Moving from microfluidics to millifluidics for liposome production.
Sommario/riassunto	This book comprises peer-reviewed papers from the fourth "International Conference of Reliable Systems Engineering (ICoRSE 2024)" that will take place in Bucharest, Romania, between 05 and 06 September 2024. The first three editions of the conference brought together participants from different countries in Europe, North America, and Asia, such as England, Albania, Austria, Bulgaria, Canada,

Czech Republic, Germany, France, Italy, Portugal, Turkey, Ukraine, Uzbekistan, and Vietnam. The book presents state-of-the-art research in the field of mechatronics and other closely related areas and covers a wide range of topics in theoretical and applied mechanics: cyber-physical systems; research and developments in the field of robotics, artificial intelligence and computer visions; smart bio-medical and bio-mechatronic systems; new and intelligent materials and structures; modeling and simulation in mechanics and mechatronics; smart mechatronic production and control systems; optics systems; big data collecting, processing and analyzing; micro- and nanotechnology; automation; manufacturing optimization; and others. Since the book's chapters provide contributions of researchers and professionals in public and private organizations, they reflect a clear picture of the novelties attained in the leading-edge sciences that are in the scope of the conference. It is our belief that the book will be useful to both students and researchers in all areas of engineering, who will each find at least one topic worthy of their interest in this work.
