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Stability Analysis of Dismountable Pallet Racks -- Bibliometric Analysis in Wos Records of Mechanics Development Trends in the Time of Industry 4.0 -- Neighbor-joining Analysis of Mechanics and the Industry 4.0 Domains -- Monitoring of Soil Desertification - Quality Parameters -- Improving the Energy Performance of a High-head Francis Turbine -- Research on a Climbing Robot with Attachment by Vacuum Cups -- Smart Education Framework to Assess the Knowledge of Engineering Students -- Comparative Analysis of Smart Education Framework and Traditional Assessment Techniques in Evaluating the Knowledge of Engineering Students -- Effect of Various Solid Lubricants on Diamond Grinding of Heat-resistant Stainless Steel --Models for Prediction of Failure Time for Optical Fibers under Severe Aging -- Multi-material 3d Printed Interfaces. Influencing Factors and Design Considerations -- Implementation of Human-robot Interaction Through Hand Gesture Recognition Algorithms -- Experimental Determination of Power Loss in Steel and Hybrid Rolling Bearings --Design of Coupling of the Led Light Source to the Optical Fiber.

Sommario/riassunto

This book comprises state-of-the-art research results in the field of mechatronics and other closely related areas and that will be presented on occasion of the third "International Conference of Reliable Systems Engineering (ICoRSE 2023)" that will take place in Bucharest, Romania. between 07-08 September 2023. The first two ICoRSE editions brought together professors, Ph.D. students, and researchers in Europe, North America, and Asia, in countries such as: England, Albania, Austria, Bulgaria, Canada, Czech Republic, Germany, France, Italy, Portugal, Turkey, Ukraine, Uzbekistan, and Vietnam. In this year's edition of the conference, we have benefitted from the inclusion in the scientific committee of the conference of professors in all of these countries, and we cover a wide variety of topics, such as: theoretical and applied mechanics; cyber-physical systems, robotics, smart bio-medical and bio-mechatronic systems, new and intelligent materials and structures, modelling and simulation in mechanics and mechatronics, smart mechatronic production and control system, optics, control systems, big data modelling, micro- and nanotechnology, automation, manufacturing optimization, and other. Since the book's chapters represent contributions of scholars who work in both state-funded institutions and in the business environment, 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 is 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.