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Autore	Famiglietti, Antonella
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Nota di contenuto	<p>Intro -- Preface -- Keynote 1: In-Database Machine Learning for the Masses -- Keynote 2: Advances in Decarbonizing the US Economy and Net-Zero Energy and Latest Research in Energy Efficiency -- Keynote 3: Isogeometric Finite Elements: Motivation, Implementation, and Applications -- Keynote 4: Fuzzy Modeling and Decision-Making Applications in Engineering Science -- Contents -- Cost Optimization Study for Two-Stage Helical Gearbox with Second Stage Double Gear Sets -- 1 Introduction -- 2 Methodology -- 2.1 Calculation of Gearbox Cost -- 2.2 Calculation of Gear Mass -- 2.3 Calculation of Shaft Mass -- 2.4 Calculation of Gearbox Housing Mass -- 2.5 Calculation of Bearing Cost -- 2.6 Optimization Problem -- 3 Experimental Work -- 4 Results and Discussions -- 5 Conclusions -- References -- A Design and Implement of Fuzzy Controller for Taking-off and Landing for Unmanned Aerial Vehicles -- 1 Introduction -- 2 System Description -- 3 Design the Input and Output of Fuzzy Controller -- 3.1 Ultrasonic Sensor -- 3.2 Design Fuzzy and PID Controller for UAV -- 4 Results and Discussion -- 5 Conclusions and Future Work -- References -- A Detailed Procedure of Squirrel-Cage Three-Phase Induction Motor Parameter Estimation Using Polynomial Regression -- 1 Introduction -- 2 Materials and Methods -- 2.1 Motor Input Impedance -- 2.2 Polynomial Regression -- 2.3 Mechanical Parameter Estimation -- 3 Experimental Validation -- 3.1 Electrical and Mechanical Parameter Identification -- 3.2 Comparison Between the Actual and Simulated Start-up Speeds -- 4 Conclusion -- References -- A Hybrid Energy Sliding Mode Controller for the Rotary Inverted Pendulum -- 1 Introduction -- 2 System Modeling -- 3 Control Problem -- 4 Simulation and Results -- 5 Conclusion -- References -- A Neural Network-Based Fast Terminal Sliding Mode Controller for Dual-Arm Robots -- 1 Introduction. 2 Dynamics of the Dual-Arm Robot-Object System -- 3 Fast Terminal Sliding Mode Controller Design -- 3.1 Design Control Law -- 3.2 Update Law for NN Weights -- 4 Simulation Results -- 5 Conclusion -- References -- A Novel Approach for Determination of Main Dimensions and Armature Reactions of Axial Flux Permanent Magnet Generators -- 1 Introduction -- 2 Determination of the Main Dimensions -- 3 Application Problems -- 4 Investigation of Influence of Armature Reactions -- 4.1 No-Load Operation -- 4.2 Rated Load Operation -- 5 Conclusion -- References -- A Prototype of Lotus Fiber Extracting Machine -- 1 Introduction -- 2 Overall Structure Design of the Auto Lotus Fiber Extracting Machine -- 2.1 Overview of the Structure -- 2.2 Workpiece Feeding Module -- 2.3 Fiber Pulling Module -- 2.4 Fiber Spinning Module -- 3 Hardware Design -- 4 Result and Discussion -- 5 Conclusions -- References -- A Simulation Investigation of Dynamic Wheel Load of a Heavy Truck with Hydro-Pneumatic Suspension System -- 1 Introduction -- 2 Mathematical Model of HPS Strut -- 3 Three-Dimension Dynamic Model of a Mining Dump Truck -- 4 Results and Discussion -- 5 Conclusions -- References -- A Study of Kinematics, Dynamics of the Stair Climbing Wheelchairs -- 1 Introduction -- 2 Modeling the Stair Climbing Mechanism -- 3 Calculation of Kinematics, Dynamics of the Stair Climbing Wheelchairs -- 3.1 Worm-Gear Transmission -- 3.2 The Synchronous Belt Transmission -- 3.3 Planetary Gear Transmission -- 4 Conclusion -- References -- A Study of Polygonal Holes Machining Using Attachment</p>

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## Sommario/riassunto

The International Conference on Engineering Research and Applications (ICERA 2022), held on December 1-2, 2022, at Thai Nguyen University of Technology in Thai Nguyen, Vietnam, provided an international forum to disseminate information on latest theories and practices in engineering research and applications. The conference focused on original research work in areas including mechanical engineering, materials and mechanics of materials, mechatronics and micro mechatronics, automotive engineering, electrical and electronics engineering, information and communication technology. By disseminating the latest advances in the field, the Proceedings of ICERA 2022, Advances in Engineering Research and Application, assists academics and professionals alike to reshape their thinking on sustainable development.

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