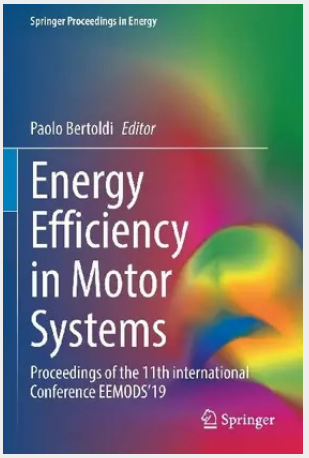
Bertoldi

Energy Efficiency in Motor Systems

Proceedings of the 11th international Conference EEMODS'19



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This book contains selected, peer-reviewed papers presented at the 11 International Conference on Energy Efficiency in Motor Systems (EEMODS'19), held in Tokyo, Japan from 17-19 September 2019. As with previous conferences in this series, EEMODS'19 provided a scientific forum to discuss and debate the latest developments and impacts of electrical motor systems on energy and the environment, energy efficiency policies and programmes adopted and planned, standards (including ISO 50.001), and the technical and commercial advances made in the dissemination and penetration of energy-efficient motor systems. Topics covered include: technologies, research and innovation in the areas of electric motors from life cycle costing to 3D printing to artificial intelligence/machine learning-based monitoring systems; emerging motor technologies; power electronics and drives; pump systems, including life cycle costing, energy efficiency improvements, maintenance, and operationfor industrial, water supply and treatment, building, and irrigation; compressed air systems; fans /exhaust systems; refrigeration systems maintenance and operation; mechanical power transmission; motors in household appliances and HVAC (residential and commercial); motors and drives for transport applications including policies, programmes, regulation, and international standards; industrial management policies and standards; motor system audit and verification; policies, programmes and financing: analysis of motor system energy use and greenhouse gas emissions for motor systems, e-vehicles and related charging infrastructure; harmonization of global motor efficiency test standards; evaluation of utility programmes for improving energy efficiency in motor systems; and policy implementation, market surveillance and enforcement mechanisms, including case studies. The conference is international by nature and aims to attract high quality and innovative contributions from all corners ofthe globe, while the papers facilitate the development of new technologies, policies and strategies to increase energy efficiency.

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