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in this book highly qualified multidisciplinary scientists present their recent research that has been motivated by the significance of applied electromechanical devices and machines for electric mobility solutions it addresses advanced applications and innovative case studies for electromechanical parameter identification modeling and testing of permanent magnet synchronous machine drives investigation on internal short circuit identifications induction machine simulation cmos active inductor applications low cost wide speed operation generators hybrid electric vehicle fuel consumption control technologies for high efficient applications mechanical and electrical design calculations torque control of a dc motor with a state space estimation and 2d layered nanomaterials for energy harvesting this book is essential reading for students researchers and professionals interested in applied electromechanical devices and machines for electric mobility solutions

this book constitutes the proceedings of the 7th international conference on pattern recognition and machine intelligence premi 2017 held in kolkata india in december 2017 the total of 86 full papers presented in this volume were carefully reviewed and selected from 293 submissions they were organized in topical sections named pattern recognition and machine learning signal and image processing computer vision and video processing soft and natural computing speech and natural language processing bioinformatics and computational biology data mining and big data analytics deep learning spatial data science and engineering and applications of pattern recognition and machine intelligence

manufacturing has been one of the key areas that support and influence a nation s economy since the 18th century being the primary driving force in economic growth manufacturing constantly serves as the foundation of and contributes to other industries in the past centuries manufacturing has contributed to the modern civilisation and created momentum that is continuously driving today s economy despite various revolutionary changes and innovations in the 20th century that contributed to manufacturing advancements we are facing new challenges when striving to achieve greater success in winning global competitions machines and robots as the constituent components in manufacturing have contributed significantly to the success of advanced manufacturing after evolving from the initial mechanisation era where mechanical devices were created to replace human labours to the later automation era where control devices were invented to replace human operations the history of

machines has now entered into the modern era of autonomisation where intelligent devices are being developed in an attempt to eventually replace human decision making while machines are becoming more and more intelligent through integration with new technologies including sensors controls computers and even the internet machine structures and theories have also advanced most noticeably in the area of parallel kinematic machines and micro machines

this essential metaheuristics tutorial provides descriptions and practical applications in the area of business analytics it addresses key problems in predictive and prescriptive analysis while also illustrating how problems that arise in business analytics can be modelled and how metaheuristics can be used to find high quality solutions readers will be introduced to decision making problems for which metaheuristics offer the most effective solution technique the book not only shows business problem modelling on a spreadsheet but also how to design and create a visual basic for applications code extra material can be downloaded at extras springer com 978 3 319 68117 7

this book covers the rapidly growing area of friction stir welding it also addresses the use of the technology for other types of materials processing including superplastic forming casting modification and surface treatments the book has been prepared to serve as the first general reference on friction stir technology information is provided on tools machines process modeling material flow microstructural development and properties materials addressed include aluminum alloys titanium alloys steels nickel base alloys and copper alloys the chapters have been written by the leading experts in this field representing leading industrial companies and university and government research insititutions

selected peer reviewed papers from the 4th international conference on intelligent structure and vibration control isvc 2014 july 25 28 2014 chongqing china

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