

Robotics And Industrial Automation By Rajput

Robotics And Industrial Automation Revolutionizing AI and Robotics in the Oil and Gas Industry Hyperautomation in Precision Agriculture Computational Intelligence in Machine Learning Sustainable Civil Engineering Now Integration and Management of Technology for Manufacturing Rich's Business Guide to Santa Clara County's Silicon Valley & Northern California Applied Science & Technology Index Himmat Technology Century BARC Annual Report 6th International R&D Conference, Sustainable Development of Water and Energy Resources, Needs and Challenges, 13-16 February 2007, Lucknow, India : Proceedings: Abstracts 6th International R&D Conference, Sustainable Development of Water and Energy Resources, Needs and Challenges, 13-16 February 2007, Lucknow, India : Proceedings: Energy International Books in Print Encyclopedia Britannica Economic Review Rich's High-tech Business Guide to Silicon Valley and Northern California SP's Military Yearbook Food Science and Technology Abstracts R. K. Rajput Abdullayev, Vugar Sartajvir Singh Vinit Kumar Gunjan Varinder S. Kanwar E. H. Robson Bhabha Atomic Research Centre

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the oil and gas industry remains the main source of energy and is one of the valuable areas of the energy market in this sector the replacement of human labor by technology is particularly important for the implementation of all stages with the application of smart technology it was possible to replace not only the physical aspect of human labor but also a number of mental activities the integration of smart technology such as artificial intelligence ai and robotics has made it possible to automate processes such as design risk assessment forecasting ensuring safety and optimizing production revolutionizing ai and robotics in the oil and gas industry addresses all aspects and principles of the joint integration of ai and

robotics for process automation in the oil and gas industry it discusses the modern environment created by the integration of digital technologies into this field the extent to which progress has been made with the automation of processes through ai and the consequences of the application of robotics and automation to the industry covering topics such as leak detection petroleum engineering and oil reservoir behavior this book is an excellent resource for industry professionals engineers computer scientists professionals researchers scholars academicians and more

hyperautomation in precision agriculture advancements and opportunities for sustainable farming is the first book to focus on the integration of multiple techniques and technologies to create an ecosystem sustaining approach that doesn't compromise soil health or environmental safety as it increases crop yield the book highlights the integration of state of the art tools and working models to address the various challenges in the field of agriculture it also identifies and discusses the potential and challenges of hyperautomation in sustainable agriculture with respect to efficiency improvement and human enhancement of automated operations hyperautomation is a true digital transformation in sustainable agriculture utilizing advanced techniques such as robotic process automation rpa digital process automation dpa unmanned aerial vehicle uav controlled environment agriculture cea remote sensing internet of things iot crop modeling precision farming sustainable yield image analysis data fusion artificial intelligence ai machine learning ml and deep learning dl provides a comprehensive overview of the current state of the art of automation in agriculture enables improved productivity and resource optimization presents advanced monitoring mapping methods in soil properties nutrients crop growth and yield

this volume comprises select proceedings of the international conference on computational intelligence in machine learning icciml 2022 the contents cover latest research trends and developments in the areas of machine learning smart cities iot artificial intelligence cyber physical systems cybernetics data science neural network cognition among others it also addresses the comprehensive nature of computational intelligence ai ml and dl to emphasize its character in modelling identification optimization prediction forecasting and control of future intelligent systems this volume will be a useful guide to those working as researchers in academia and industry by presenting in depth fundamental research contributions from a methodological application perspective in understanding artificial intelligence and machine learning approaches and their capabilities in solving diverse range of problems in industries and its real world applications

this reference text establishes linkages between the user industries and the providers of clean technologies and sustainable materials for a rapid transformation of the small and medium sized enterprises smes the text covers several aspects of sustainable applications including clean technologies climate change and its effects sustainable buildings smart cities sustainability in road construction sustainable use of geosynthetic innovative materials and sustainable construction practices the text will be useful for senior

undergraduate students graduate students and researchers in the fields of civil engineering and other infrastructure related professionals and planners the book discusses clean technologies and sustainable materials in depth covers concepts of sustainability in road construction and water retaining structures examines environmental policies and practices discusses climate change and its effects in a comprehensive manner covers sustainable buildings including smart cities as this book discusses concepts related to sustainable civil engineering practices in a single volume it will be an ideal reference text for everyone aiming at developments of sustainable infrastructures

to survive in the increasingly competitive economic conditions of the contemporary world manufacturing organizations are continually seeking ways of improving their market shares by becoming more effective and efficient and by producing goods of higher quality it appears that advanced manufacturing technology can provide at least some of the means of achieving these improvements

contributed articles presented at the conference

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