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Simplimatic Automation, a
leader in material handling
and automation, recently
programmed and integrated a
palletizing FANUC®
M-710iC/50H robot able to
stack 20 cases per minute
for a personal ...

**Simplimatic's Palletizing
Robot Offers Advanced Speed
and Error Recovery**

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Sergeyev's professional interests include robotics, and he is a certified instructor for the FANUC Robotic Automation Industrial Certification through the Certified Education Robot Training (CERT) ...

This book proposes new technologies and discusses future solutions for ICT design infrastructures, as reflected in high-quality papers presented at the 6th International Conference on ICT for Sustainable Development (ICT4SD 2021), held in Goa, India, on 5-6 August 2021. The book covers

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the topics such as big data and data mining, data fusion, IoT programming toolkits and frameworks, green communication systems and network, use of ICT in smart cities, sensor networks and embedded system, network and information security, wireless and optical networks, security, trust, and privacy, routing and control protocols, cognitive radio and networks, and natural language processing. Bringing together experts from different countries, the book explores a range of central issues from an international perspective.

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These volumes of "Advances in Intelligent Systems and Computing" highlight papers presented at the "Third Iberian Robotics Conference (ROBOT 2017)". Held from 22 to 24 November 2017 in Seville, Spain, the conference is a part of a series of conferences co-organized by SEIDROB (Spanish Society for Research and Development in Robotics) and SPR (Portuguese Society for Robotics). The conference is focused on Robotics scientific and technological activities in the Iberian Peninsula, although open to research and delegates from other countries. Thus, it

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has more than 500 authors from 21 countries. The volumes present scientific advances but also robotic industrial applications, looking to promote new collaborations between industry and academia.

This is a clear, comprehensive, full-color introduction and reference for students and professionals who are creating engineering drawings and graphics with CAD software or by hand. It provides excellent technical detail and motivating real-world examples, illuminating theory with a colorful, highly-visual format

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complemented with concise text. Designed for busy, visually-oriented learners, this guide expands on well-tested material, fully updated for the latest ASME standards, materials, industries and production processes. Its up-to-date examples range from mechanical, plastic, and sheet metal drawings to modern techniques for civil engineering, architecture, and rapid prototyping. Throughout, clear, easy, step-by-step descriptions teach essential sketching and visualization techniques, including the use of 3D and 2D CAD. All color visuals are tightly

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integrated with text to promote rapid mastery. Colorful models and animations on a companion website bring the material to life, and hands-on projects and tear-out worksheets make this guide ideal both for learning and for ongoing reference.

The book presents the proceedings of the International Conference on Modern Trends in Manufacturing Technologies and Equipment (ICMTME 2021), held in September 2021 in Sevastopol, Russia. The conference participants came from Russia, Ukraine, Belarus, Kazakhstan, South

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Africa, Germany, USA, Bulgaria, Poland, China, Algeria, Mongolia, Uzbekistan, Armenia and Vietnam. The aim of the conference was to provide scientists and industrial researchers with the latest developments in manufacturing technologies, materials research, manufacturing equipment and tools, and to build up partnerships for future collaboration. Keywords: Welded Joints, Dry Building Mixtures, Tribological Properties of Sapphire, Direct Metal Deposition Modes, Production of Artificial Concrete, Wooden Structures, Rolls for

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Helical Rolling, Laser
Treatments,
Electromechanical Surfacing,
Luminous Phosphate Coatings,
Ventilated Brake Discs,
Cutting Zone, Models for
Wind Tunnels, Gas-Thermal
Spraying, Water-Abrasive
Cutting, Grinding Forces,
CVD Coatings, Carbonate
Concrete, Photocatalytic
Activity of Tungsten Oxide,
Maraging Steel, Corrosion of
TiNi Alloy, 3D Printing,
Production of Ultramarine,
Injection Molding,
Elastomeric Composites,
Reinforcing Bars Inside
Concrete Structures,
Coatings for Cutting Tools,
Hard Alloy Tools,
Deformation of Elastic

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Polymer, Wearproof Composite Coatings. Rubber with Sensory Properties, Foamed Phosphate Glass for Oil Sorbents, Welded Trunk Pipelines, Biodegradable Extrusion Films, Asphalt Concrete, Mathematical Models, Electrically Conductive Materials, Belt Rotary Grinding of Aluminium Alloy Blanks.

This book describes recent approaches in advancing STEM education with the use of robotics, innovative methods in integrating robotics in school subjects, engaging and stimulating students with robotics in classroom-based and out-of-school

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activities, and new ways of using robotics as an educational tool to provide diverse learning experiences. It addresses issues and challenges in generating enthusiasm among students and revamping curricula to provide application focused and hands-on approaches in learning . The book also provides effective strategies and emerging trends in using robotics, designing learning activities and how robotics impacts the students' interests and achievements in STEM related subjects. The frontiers of education are progressing very

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rapidly. This volume brought together a collection of projects and ideas which help us keep track of where the frontiers are moving. This book ticks lots of contemporary boxes: STEM, robotics, coding, and computational thinking among them. Most educators interested in the STEM phenomena will find many ideas in this book which challenge, provide evidence and suggest solutions related to both pedagogy and content. Regular reference to 21st Century skills, achieved through active collaborative learning in authentic contexts, ensures the enduring usefulness of

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this volume. John Williams
Professor of Education and
Director of the STEM
Education Research Group
Curtin University, Perth,
Australia

Industrial engineering
affects all levels of
society, with innovations in
manufacturing and other
forms of engineering
oftentimes spawning cultural
or educational shifts along
with new technologies.

Industrial Engineering:
Concepts, Methodologies,
Tools, and Applications
serves as a vital compendium
of research, detailing the
latest research, theories,
and case studies on

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industrial engineering. Bringing together contributions from authors around the world, this three-volume collection represents the most sophisticated research and developments from the field of industrial engineering and will prove a valuable resource for researchers, academics, and practitioners alike.

The era of the fourth industrial revolution has fundamentally transformed the manufacturing landscape. Products are getting increasingly complex and customers expect a higher level of customization and quality. Manufacturing in

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the Era of 4th Industrial Revolution explores three technologies that are the building blocks of the next-generation advanced manufacturing. The first technology covered in Volume 1 is Additive Manufacturing (AM). AM has emerged as a very popular manufacturing process. The most common form of AM is referred to as 'three-dimensional (3D) printing'. Overall, the revolution of additive manufacturing has led to many opportunities in fabricating complex, customized, and novel products. As the number of printable materials increases and AM processes

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evolve, manufacturing capabilities for future engineering systems will expand rapidly, resulting in a completely new paradigm for solving a myriad of global problems. The second technology is industrial robots, which is covered in Volume 2 on Robotics.

Traditionally, industrial robots have been used on mass production lines, where the same manufacturing operation is repeated many times. Recent advances in human-safe industrial robots present an opportunity for creating hybrid work cells, where humans and robots can collaborate in close physical proximities. This

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Cobots, or collaborative robots, has opened up to opportunity for humans and robots to work more closely together. Recent advances in artificial intelligence are striving to make industrial robots more agile, with the ability to adapt to changing environments and tasks. Additionally, recent advances in force and tactile sensing enable robots to be used in complex manufacturing tasks. These new capabilities are expanding the role of robotics in manufacturing operations and leading to significant growth in the industrial robotics area. The third technology covered in

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Volume 3 is augmented and virtual reality. Augmented and virtual reality (AR/VR) technologies are being leveraged by the manufacturing community to improve operations in a wide variety of ways. Traditional applications have included operator training and design visualization, with more recent applications including interactive design and manufacturing planning, human and robot interactions, ergonomic analysis, information and knowledge capture, and manufacturing simulation. The advent of low-cost solutions in these areas is accepted to accelerate the

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rate of adoption of these technologies in the manufacturing and related sectors. Consisting of chapters by leading experts in the world, *Manufacturing in the Era of 4th Industrial Revolution* provides a reference set for supporting graduate programs in the advanced manufacturing area.

This two-volume set LNCS 11569 and 11570 constitutes the refereed proceedings of the Thematic Area on Human Interface and the Management of Information, HIMI 2019, held as part of HCI International 2019 in Orlando, FL, USA. HCII 2019 received a total of 5029

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submissions, of which 1275 papers and 209 posters were accepted for publication after a careful reviewing process. The 91 papers presented in the two volumes were organized in topical sections named: Visual information; Data visualization and analytics; Information, cognition and learning; Information, empathy and persuasion; Knowledge management and sharing; Haptic and tactile interaction; Information in virtual and augmented reality; Machine learning and intelligent systems; Human motion and expression recognition and tracking; Medicine, healthcare and

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quality of life
applications.

The primary aim of this volume is to provide researchers and engineers from both academic and industry with up-to-date coverage of new results in the field of robotic welding, intelligent systems and automation. The book is mainly based on papers selected from the 2014 International Conference on Robotic Welding, Intelligence and Automation (RWIA'2014), held Oct. 25-27, 2014, at Shanghai, China. The articles show that the intelligentized welding manufacturing (IWM)

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is becoming an inevitable trend with the intelligentized robotic welding as the key technology. The volume is divided into four logical parts: Intelligent Techniques for Robotic Welding, Sensing of Arc Welding Processing, Modeling and Intelligent Control of Welding Processing, as well as Intelligent Control and its Applications in Engineering.

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