1. Record Nr. UNISA996384796903316

Autore	Ascham Antony <d. 1650.>
Titolo	Of the confusions and revolutions of governments [[electronic resource]] : wherein is examined how farre a man may lawfully conforme to the powers and commands of those who with various successes hold kingdomes divided by civill or forreigne warres ... : likewise, whether the nature of warre be inconsistent with the precepts of the Christian religion? : three parts, with severall additions / / by Ant. Ashcam, Gent
Pubbl/distr/stampa	London, : Printed by W. Wilson ..., 1649
Descrizione fisica	[10], 200 p
Soggetti	Government, Resistance to War - Religious aspects - Christianity
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Note generali	First ed., 1648, has title: A discourse wherein is examined what is particularly lawfull during the confusions and revolutions of government. Reproduction of original in Huntington Library.
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Autore	Massaro Alessandro <1974->
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Nota di contenuto	Cover -- Title Page -- Copyright Page -- Contents -- Preface -- About the Author -- Chapter 1 State of the Art and Technology Innovation -- 1.1 State of the Art of Flexible Technologies in Industry -- 1.1.1 Sensors and Actuators Layer: I/O Layer -- 1.1.2 Agent/Firmware Layer: User Interface Layer -- 1.1.3 Gateway and Enterprise Service Bus Layer -- 1.1.4 IoT Middleware -- 1.1.5 Processing Layer -- 1.1.6 Application Layer -- 1.1.7 File Transfer Protocols -- 1.2 State of the Art of Scientific Approaches Oriented on Process Control and Automatisms -- 1.2.1 Architectures Integrating AI -- 1.2.2 AI Supervised and Unsupersived Algorithms -- 1.2.3 AI Image Processing -- 1.2.4 Production Process Mapping -- 1.2.5 Technologies of Industry 4.0 and Industry 5.0: Interconnection and Main Limits -- 1.2.6 Infrared Thermography in Monitoring Process -- 1.2.7 Key Parameters in Supply Chain and AI Improving Manufacturing Processes -- 1.3 Intelligent Automatic Systems in Industries -- 1.4 Technological Approaches to Transform the Production in Auto-Adaptive Control and Actuation Systems -- 1.5 Basic Concepts of Artificial Intelligence -- 1.6 Knowledge Upgrading in Industries -- References -- Chapter 2 Information Technology Infrastructures Supporting Industry 5.0

Boards Managing Different Production Stages -- References -- Chapter 5 Advanced Robotics -- 5.1 Collaborative Robotics in Industry and Protocols -- 5.1.1 Data Protocols -- 5.1.2 Basic Concepts of Robotic Arms and Control Improvement -- 5.1.3 Collaborative Exoskeleton Communication System Protocols -- 5.1.4 Advanced Robotics and Intelligent Automation in Manufacturing: Logic Conditions and PLC Programming -- 5.2 Artificial Intelligence in Advanced Robotics and Auto-Adaptive Movement.
5.2.1 General Technological Aspects about Auto-Adaptive Motion in Advanced Robotics -- 5.2.1.1 Main Aspects of Electrostatic Actuators -- 5.2.1.2 Microelectromechanical System Electrostatic Actuators -- 5.2.1.3 Piezoelectric Actuators -- 5.2.1.4 DC Motor Actuation -- 5.2.1.5 Intelligent Control Integrating AI: Speed Regulation -- 5.2.2 Improvement of Collaborative Exoskeletons by Auto-Adaptive Solutions Implementing Artificial Intelligence -- 5.3 Human-Robot Self-Learning Collaboration in Industrial Applications and Electronic Aspects -- 5.3.1 DC-DC Converter -- 5.3.2 Voltage Source Inverter -- 5.3.3 Current-Source Inverter -- 5.3.4 DC Voltage Source -- 5.3.5 Capacitor and Reactor Effects on Signal Control -- 5.3.6 Human-Robot System and Learning Approaches -- 5.3.6.1 Example of PID Implementation of Self-AdaptingGains -- 5.3.7 Unsupervised Learning Approaches -- 5.3.8 Soft Robotics for Intelligent Collaborative Robotics -- 5.4 Robotics in Additive Manufacturing -- 5.4.1 Additive Manufacturing in Industrial Production and Spray Technique -- 5.4.2 Artificial Intelligence Applications in Additive Manufacturing -- 5.4.3 Advanced Electronic for Design-to-Product Transformation: Laser Texturing Manufacturing and Artificial Intelligence -- References -- Chapter 6 Advanced Optoelectronic and Micro-/Nanosensors -- 6.1 Nanotechnology Laboratories in Industries -- 6.1.1 Facilities for Micro-/Nanosensor Fabrication and Characterization -- 6.2 Micro- and Nanosensors as Preliminary Prototypes for Industry Research -- 6.2.1 Nanocomposite Optoelectronic Sensors and Optoelectronic Circuits for Pressure Sensors -- 6.2.1.1 Optical Fiber Nanocomposite Tip -- 6.2.2 Plasmonic Probes -- 6.2.3 Nanocomposite Pressure Sensor -- 6.2.4 Nanocomposite Sensor for Liquid Detection Systems and Fluid Loss Systems.
6.2.4.1 Nanocomposite Sensor for Liquid Detection Systems Based on a Pillar-Type Layout -- 6.2.4.2 Micro- and Nanosensors in the Monitoring of Production Processes: Leakage Monitoring -- 6.2.5 Examples of Digital MEMS/NEMS Sensors: Technological Aspects and Applications -- 6.2.5.1 Thin Film MEMS -- 6.2.5.2 Nanoprobes for Medical Imaging -- 6.2.5.3 Diamond Thin Film Devices: Sensing Improvements -- 6.3 Multisensor Systems and Big Data Synchronization of Micro-/Nanoprobes -- References -- Chapter 7 Image Vision Advances -- 7.1 Defect Classification by Artificial Intelligence and Data Processor Units -- 7.1.1 Artificial Intelligence Algorithms and Automatism for Defect Classification: Case Study of Tire Production -- 7.1.2 Welding Classification and Nondestructive Testing Suitable for the Quality Check -- 7.1.2.1 Watershed Image Segmentation and Automatic Welding Defect Classification -- 7.1.3 Encoding and Decoding Circuits in Artificial Intelligence Data Processing -- 7.1.4 Electronic Logic Port Implementations: Pixel Matrix Logic Condition -- 7.2 Image Vision Architectures and Electronic Design -- 7.2.1 Infrared Thermography Monitoring Industrial Processes -- 7.2.1.1 Welding Image Vision Processing and Architecture Design: Radiometric Post Processing -- 7.2.2 Electronic and Firmware for Inline Image Monitoring Systems: Hole Precision in Milling Quality Processes -- 7.2.3 Image Vision and Predictive Maintenance by Artificial

Intelligence -- 7.2.3.1 Profilometer for Image Vision -- 7.2.3.2 In-Line 3D Image Vision AI System Integrating Profilometer and Image Processing -- 7.2.4 Augmented Reality Systems and Artificial Neural Networks: Image Vision Supporting Production Processes -- 7.2.5 Infrared Thermography Circuit Design and Automated System -- 7.3 Image Segmentation and Image Clustering.
7.3.1 Electronic and Firmware for In-Line Monitoring Systems: Camera Connection.

Sommario/riassunto

"Electronics in Advanced Research Industries: Industry 4.0 to Industry 5.0 Advances introduces smarter ways of developing machine control. The author - a noted expert on the topic - combines smart technology such as Industry of Things, artificial intelligence (AI) and nanotechnology with the likes of robotic machines, machine to machine interfaces and approaches to design production. Electronics in Advanced Research Industries is comprised of nine chapters, each one including examples and diagrams for the reader to interact with. Sub-categories are also implemented throughout every chapter, detailed and precise findings from a scientific expert researcher in the subject. This book is a single-authored book which connects electrical and mechanical engineering in a unique way to ensure we are producing the best designed technology possible"--

3.

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