

1. Record Nr.	UNINA9910787078003321
Titolo	Operation and diagnostics of machines and production systems operational states II : special topic volume with invited peer reviewed papers only // edited by Stanislav Fabian and Tibor Krenicky
Pubbl/distr/stampa	Pfaffikon, Switzerland : , : TTP, , 2014 ©2014
ISBN	3-03826-584-5
Descrizione fisica	1 online resource (368 p.)
Collana	Applied Mechanics and Materials, , 1662-7482 ; ; Volume 616
Disciplina	658.40352
Soggetti	Manufacturing processes - Evaluation Industrial engineering Engineering inspection
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Operation and Diagnostics of Machines and Production Systems Operational States II; Preface; Table of Contents; I. Theory, Diagnostics and Operational States of Machines; Diagnostic of Manufacturing Devices Operational States by Smart-Phones Application with Use of Augmented Reality Methods; Use of Diagnostic Methods for Monitoring of Disorder State of Production Machines and Equipment; Interactive Monitoring of Production Process with Use of Augmented Reality Technology; Bearing Units and Surface Micro-Geometry of Rolling Races in Textile Machinery Implementation of Method and Structure Handling Manipulation Operations to Hydroabrasive Process Modelling of the Anisothermal Phase Transformation of Austenite by Electromagnetic Sensor; Degradation Process in Area of Connecting Metal Sheets by Adhesive Bonding Technology in Agrocomplex; Mathematical Modelling and Optimization of Technological Process Using Design of Experiments Methodology; Boroscopy Application in Assurance of Technological Equipment Operational Capability; Diagnostics of the Arm Actuator Position Using Incremental Measurement Experimental Investigation and Analysis of the Impact in Abrasive Mass

Flow Changes with and without the Use of Sieve Analysis on Technological Head Vibrations at Hydroabrasive Cutting; Design of Module of Moving Robot; Operating Characteristics of Antagonistic Actuator with Pneumatic Artificial Muscles; Using Atomic Spectrometry and Volumetry Method for Determination of Bearing Corrosion in Tribotechnical Diagnostics of Engines; Determination of the Suitability of the Method Used for Evaluation Measurement Equipment Capability; Ensuring the Reliability of an Aircraft Engine Hydraulic System Loops Control Structure and Solar System Control of a Multivalent Laboratory under Real-Time Mode; Monitoring of Biomass-Based Heat Production System; Impact of Lubrication Interval to Operating Status of Bearing; Analysis of Technological Head Working Pressure, Tilt Angle and Shift Impact to its Vibrations Using AWJ Technology; New Methods of Obtaining Input Data of Numerical Computations by Using Heat Treatment Simulator; Technological Head Tilt Angle Influence Analysis to Generation of Vibration during Ceramics Material Machining by Means of AWJ Technology; Progressive Technology Diagnostics and Factors Affecting Machinability; Diagnostic and Experimental Valuation on Progressive Machining Unit; Analysis of the Damage Causes of High Speed Bearing Failure; Monitoring of the Influence of Moisture Content in Thermoplastic Granulate on Rheological Properties of Material; Dynamic Analysis of Worm Gear Boxes; II. Operation of Production Systems; Diagnostics of Errors at Component Surface by Vision Recognition in Production Systems; Short-Term Testing of Cutting Materials Using the Method of Interrupted Cut; Dynamics of Core Taking out at Die Casting; Diagnostics of Strain Hardening Exponent and Material Constant of Steel Sheets

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#### Sommario/riassunto

Special Topic Volume entitled Operation and Diagnostics of Machines and Production Systems Operational States II is focused on the operation, technology and diagnostics of operational states of machines and manufacturing systems. The topic covers research fields that are mainly solved at the Faculty of Manufacturing Technologies of Technical University of Kosice with a seat in Presov for long period of time. Dealing with such kind of research is necessarily associated with high theoretical demands, so authors would like to disseminate achieved knowledge in research, educational and entrepreneur

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2. Record Nr.	UNINA9910483331803321
Titolo	Intelligent Computing Paradigm and Cutting-edge Technologies : Proceedings of the Second International Conference on Innovative Computing and Cutting-edge Technologies (ICICCT 2020) // edited by Margarita N. Favorskaya, Sheng-Lung Peng, Milan Simic, Basim Alhadidi, Souvik Pal
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
ISBN	9783030654078 3030654079
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (463 pages)
Collana	Learning and Analytics in Intelligent Systems, , 2662-3455 ; ; 21
Disciplina	006.3v
Soggetti	Computational intelligence Engineering - Data processing Cooperating objects (Computer systems) Computational Intelligence Data Engineering Cyber-Physical Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: Throat Microphone Speech Enhancement using Machine Learning Technique -- Chapter 2: Use of Artificial Neural Network to Predict the Yield of Sinter Plant as a Function of Production Parameters -- Chapter 3: An Approach to Self-Reliant Smart Road using Piezoelectric Effect and Sensor Nodes -- Chapter 4: Using static and dynamic image maps built by Graphic Interchange Format (GIF) and Geographic Information System -- Chapter 5: (GIS) for project based learning air pollution in schools in Hanoi, Vietnam -- Chapter 6: Prediction of Autism Spectrum Disorder Using Feature Engineering for Machine Learning Classifiers -- Chapter 7: A Novel and Smart Parking System for the University Parking System -- Chapter 8: Role of M-Cord Computing Architecture for Over the Top (OTT) Services and Applications -- Chapter 9: Application of virtual reality and augmented

reality technology for teaching Biology at High School in Vietnam -- Chapter 10: Internet of Things Based Gesture Controlled Wheel Chair for Physically Disabled -- Chapter 11: An Adaptive Crack Identification Scheme Using Enhanced Segmentation and Feature Extraction for Electrical discharge machining of Inconel X750.

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## Sommario/riassunto

This book aims to bring together Researchers, Scientists, Engineers, Scholars and Students in the areas of computer engineering and information technology, and provides a forum for the dissemination of original research results, new ideas, Research and development, practical experiments, which concentrate on both theory and practices, for the benefit of the society. The book also provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Computer Science and Information Technology in the context of Distributed computing, Big data, High performance computing, Internet-of-Things, and digital pedagogy. It is becoming increasingly important to develop adaptive, intelligent computing-centric, energy-aware, secure and privacy-aware mechanisms in high performance computing and IoT applications. This book aspires to convey researchers' experiences, to present excellent result analysis, future scopes, and challenges facing the field of computer science, information technology, telecommunication, and digital pedagogy. This book aims to attract researchers and practitioners who are working in Information Technology and Computer Science. This book is about basics and high level concepts regarding intelligent computing paradigm, communications, and digital learning process. The book serves as a useful guide for Undergraduates, Postgraduates and Research Scholar in the field of Computer Science, Information Technology, and Electronics Engineering. We believe that this volume not only presents novel and interesting ideas but also will stimulate interesting discussions from the participants and inspire new ideas.

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