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4T2PT6 - COOLEY HUERTA

This book presents the select proceedings of the second International Conference on Recent Advances in Mechanical Engineering (RAME 2020). The topics covered include aerodynamics and fluid mechanics, automation, automotive engineering, composites, ceramics and polymers processing, computational mechanics, failure and fracture mechanics, friction, tribology and surface engineering, heating and ventilation, air conditioning system, industrial engineering, IC engines, turbo-machinery and alternative fuels, machinability and formability of materials, mechanisms and machines, metrology and computer-aided inspection, micro- and nano-mechanics, modelling, simulation and optimization, product design and development, rapid manufacturing technologies and prototyping, solid mechanics and structural mechanics, thermodynamics and heat transfer, traditional and non-traditional machining processes, vibration and acoustics. The book also discusses various energy-efficient renewable and non-renewable resources and technologies, strategies and technologies for sustainable development and energy & environmental interaction. The book is a valuable reference for beginners, researchers, and professionals interested in sustainable construction and allied fields.

This book comprises the best deliberations with the theme "Smart Innovations in Mezzanine Technologies, Data Analytics, Networks and Communication Systems" in the "International Conference on Advances in Computer Engineering and Communication Systems (ICACECS 2020)", organized by the Department of Computer Science and Engineering, VNR Vignana Jyothi Institute of Engineering and Technology. The book provides insights on the recent trends and developments in the field of computer science with a special focus on the mezzanine technologies and creates an arena for collaborative innovation. The book focuses on advanced topics in artificial intelligence, machine learning, data mining and big data computing, cloud computing, Internet on things, distributed computing and smart systems.

The book features original papers from the 2nd International Conference on Smart IoT Systems: Innovations and Computing (SSIC 2019), presenting scientific work related to smart solution concepts. It discusses computational collective intelligence, which includes interactions between smart devices, smart environments and smart interactions, as well as information technology support for such areas. It also describes how to successfully approach various government organizations for funding for business and the humanitarian technology development projects. Thanks to the high-quality content and the broad range of the topics covered, the book appeals to researchers pursuing advanced studies.

This book covers the proceedings of ICISSI 2022 (International Conference on Intelligent Systems and Smart Infrastructure) held at Prayagraj, Uttar Pradesh during April 21-22, 2022. The conference was jointly organised by Shambhunath Institute of Engineering and Technology, Prayagraj UP India, Institute of Engineering and Technology (IET) Lucknow, U.P India, and Manipal University Jaipur, Rajasthan India with an aim to provide a platform for researchers, scientists, technocrats, academicians and engineers to exchange their innovative ideas and new challenges being faced in the field of emerging technologies. The papers presented in the conference have been compiled in form of chapters to focus on the core technological developments in the emerging fields like machine learning, intelligence systems, smart infrastructure, advanced power technology etc.

These are the proceedings of the International Conference on ISMAC-CVB, held in Palladam, India, in May 2018. The book focuses on research to design new analysis paradigms and computational solutions for quantification of information provided by object recognition, scene understanding of computer vision and different algorithms like convolutional neural networks to allow computers to recognize and detect objects in images with unprecedented accuracy and to even understand the relationships between them. The proceedings treat the convergence of ISMAC in Computational Vision and Bioengineering technology and includes ideas and techniques like 3D sensing, human visual perception, scene understanding, human motion detection and analysis, visualization and graphical data presentation and a very wide range of sensor modalities in terms of surveillance,

wearable applications, home automation etc. ISMAC-CVB is a forum for leading academic scientists, researchers and research scholars to exchange and share their experiences and research results about all aspects of computational vision and bioengineering.

This volume constitutes selected papers presented at the International Conference on IoT and its Applications 2020. The research papers presented were carefully reviewed and selected from several initial submissions on the topics - the Internet of Things (IoT) and its applications such as smart cities, smart devices, agriculture, transportation and logistics, healthcare, etc. The book contains peer-reviewed chapters written by leading international scholars from around the world. This book will appeal to students, practitioners, industry professionals, and researchers working in the field of IoT and its integration with other technologies to develop comprehensive solutions to real-life problems.

This book presents the innovative and interdisciplinary application of advanced technologies. It includes the scientific outcomes and results of the conference 12th Day of Bosnian-Herzegovinian American Academy of Art and Sciences held in Mostar, Bosnia, and Herzegovina, June 24-27, 2021. The latest developments in various fields of engineering have been presented through various papers in civil engineering, mechanical engineering, computing, electrical and electronics engineering, and others. A new session, Sustainable Urban Development: Designing Smart, Inclusive and Resilient Cities, was organized, enabling experts in this field to exchange their knowledge and expertise.

This book includes the volume 1 of the proceedings of the 2012 International Conference on Mechanical and Electronic Engineering (ICMEE2012), held at June 23-24, 2012 in Hefei, China. The conference provided a rare opportunity to bring together worldwide researchers who are working in the fields. This volume 1 is focusing on Mechanical Engineering and Automation as well as Vehicle Engineering and Technology.

Over recent years most business processes have changed in various dimensions (e. g. , ?exibility, interconnectivity, coordination style, autonomy) due to market conditions, organizational models, and usage scenarios of information systems. Frequently, information is relocated within a geographical-distributed system according to rules that are only seldom defined as a well-coded business process. This creates the need for a software infrastructure that enables ubiquitous mobile and collaboration systems (UMICS). The anywhere/anytime/any means paradigm is becoming the major challenge in conceiving, designing, and releasing next-generation information systems. New technologies, like wi-fi networks and 3rd-generation mobile phones, are offering the infrastructure to conceive of information systems as ubiquitous information systems, that is, systems that are accessible from anywhere, at any time, and with any device. Ubiquity is not yet another buzzword pushed by emerging technologies, but is mainly a means to support new business models and encourage new ways of working. This new wave of UMICS will exploit the knowledge developed and deployed for conventional information systems, but will also need new concepts, models, methodologies, and supporting technologies to fully exploit the potentials of the enabling infrastructure and to be ready for the challenge. Moreover, people need to move across organizational boundaries and collaborate with others within an organization as well as between organizations. The ability to query the company's distributed knowledge base and to cooperate with co-workers is still a requirement, but mobility brings new access scenarios and higher complexity.

The continuing requirement for better urban transport systems and the need for a healthier environment have led to an increased level of research around the world. This is reflected in the proceedings presented at the well-established International Conference on Urban Transport and the Environment in the 21st Century. This volume presents the steady growth in research into urban transport and will be of particular interest to engineers, scientists and managers working in industry, universities, research organizations and government; involved in the planning and management of urban transportation systems and transport policy. The variety of topics covered are of primary importance for analysing the complex interaction in the urban transport environment and for establishing action strategies for transport and traffic problems. Featured topics include: Transport

Modelling and Simulation; Public Transport Systems; Traffic Integration and Control; Infrastructure and Maintenance; Transport Sustainability; Environment and Ecological Aspects; Air and Noise Pollution; Energy and Transport Fuels; Transport Security and Safety; Road and Parking Pricing; Economic and Social Impact; Land Use and Transport Integration; Advanced Transport Systems; Transportation Demand Analysis.

This book constitutes the refereed conference proceedings of the 16th IFIP WG 6.11 Conference on e-Business, e-Services and e-Society, I3E 2017, held in Delhi, India, in November 2017. The 45 revised full papers presented were carefully reviewed and selected from 92 submissions. They are organized in the following topical sections: Adoption of Smart Services; Assessment of ICT Enabled Smart Initiatives; Analytics for Smart Governance; Social Media and Web 3.0 for Smartness; and Smart Solutions for the Future.

This volume contains 88 papers presented at CSI 2013: 48th Annual Convention of Computer Society of India with the theme "ICT and Critical Infrastructure". The convention was held during 13th -15th December 2013 at Hotel Novotel Varun Beach, Visakhapatnam and hosted by Computer Society of India, Vishakhapatnam Chapter in association with Vishakhapatnam Steel Plant, the flagship company of RINL, India. This volume contains papers mainly focused on Computational Intelligence and its applications, Mobile Communications and social Networking, Grid Computing, Cloud Computing, Virtual and Scalable Applications, Project Management and Quality Systems and Emerging Technologies in hardware and Software.

This book consists of papers presented at AUTOMATION2019, an international conference held in Warsaw from March 27 to 29, 2019. It discusses the radical technological changes occurring due to the INDUSTRY 4.0. To follow these changes, both scientists and engineers have to face the challenge of interdisciplinary approach directed at the development of cyber-physical systems. This approach encompasses interdisciplinary theoretical knowledge, numerical modelling and simulation as well as application of artificial intelligence techniques. Both software and physical devices are composed into systems that will increase production efficiency and resource savings. The theoretical results, practical solutions and guidelines presented are valuable for both researchers working in the area of engineering sciences and practitioners looking for solutions to industrial problems.

GSM, GPRS and EDGE Performance - Second Edition provides a complete overview of the entire GSM system. GSM (Global System for Mobile Communications) is the digital transmission technique widely adopted in Europe and supported in North America. It features comprehensive descriptions of GSM's main evolutionary milestones - GPRS, (General Packet Radio Services) is a packet-based wireless communication service that promises data rates from 56 up to 114 Kbps and continuous connection to the Internet for mobile phone and computer users. AMR and EDGE (Enhanced Data GSM Environment), and such developments have now positioned GERAN (GSM/EDGE Radio Access Network) as a full 3G radio standard. The radio network performance and capabilities of GSM, GPRS, AMR and EDGE solutions are studied in-depth by using revealing simulations and field trials. Cellular operators must now roll out new 3G technologies capable of delivering wireless Internet based multimedia services in a competitive and cost-effective way and this volume, divided into three parts, helps to explain how: 1. Provides an introduction to the complete evolution of GSM towards a radio access network that efficiently supports UMTS services (GERAN). 2. Features a comprehensive study of system performance with simulations and field trials. Covers all the major features such as basic GSM, GPRS, EDGE and AMR and the full capability of the GERAN radio interface for 3G service support is envisaged. 3. Discusses different 3G radio technologies and the position of GERAN within such technologies. Featuring fully revised and updated chapters throughout, the second edition contains 90 pages of new material and features the following new sections, enabling this reference to remain as a leading text in the area: Expanded material on GPRS Includes IMS architecture (Rel'5) and GERAN (Rel'6) features Presents field trial results for AMR and narrow-band Provides EGPRS deployment guidelines Features a new chapter on Service Performance An invaluable reference for Engineering Professionals, Research and Development Engineers, Business Development Managers, Technical Managers and Technical Specialists working for cellular opera-

tors

This proceedings volume explores the latest advances in transport and logistics, while also discussing the applications of modern information technologies, telecommunications, electronics, and prospective research methods and analyzing their impacts on society and the environment, which in turn determine the future development of these technologies. The book is intended for a broad readership, including transport and logistics business planners and technical experts, leveraging industry knowledge and facilitating technology adoption in promising business regions and transit corridors such as Ukraine, Kazakhstan, and others. The authors, who include policy planners and crafters as well as education and training professionals, address various types of intermodal transport such as rail, road, maritime, air, etc.

This book gathers selected research papers presented at the First International Conference on Digital Technologies and Applications (ICDTA 21), held at Sidi Mohamed Ben Abdellah University, Fez, Morocco, on 29–30 January 2021, highlighting the latest innovations in digital technologies as: artificial intelligence, Internet of things, embedded systems, network technology, information processing, and their applications in several areas such as hybrid vehicles, renewable energy, robotic, and COVID-19. The respective papers encourage and inspire researchers, industry professionals, and policymakers to put these methods into practice.

This book constitutes the refereed post-proceedings of the Second International Conference on Theoretical and Mathematical Foundations of Computer Science, ICTMF 2011, held in Singapore in May 2011. The conference was held together with the Second International Conference on High Performance Networking, Computing, and Communication systems, ICHCC 2011, which proceedings are published in CCIS 163. The 84 revised selected papers presented were carefully reviewed and selected for inclusion in the book. The topics covered range from computational science, engineering and technology to digital signal processing, and computational biology to game theory, and other related topics.

This book presents research advances in intelligent transportation and smart cities in detail, mainly focusing on green traffic and urban utility tunnels, presented at the 4th International Symposium for Intelligent Transportation and Smart City (ITASC) held at Tongji University, Shanghai, on May 8–10, 2019. It discusses a number of hot topics, such as the 2BMW system (Bus, Bike, Metro and Walking), transportation safety and environmental protection, urban utility design and application, as well as the application of BIM (Building Information Modeling) in city design. By connecting the theory and applications of intelligent transportation in smart cities, it enhances traffic efficiency and quality. The book gathers numerous selected papers and lectures, including contributions from respected scholars and the latest engineering advances, to provide guidance to researchers in the field of transportation and urban planning at universities and in related industries. The first conference in the ITASC series was held in 2013 as a workshop of the International Symposium on Autonomous Decentralized System (ISADS) in Mexico City. The second and third were held in May 2015 and May 2017, respectively, in Tongji University, Shanghai.

This book presents the augmented reality (AR) and virtual reality (VR) automotive applications. It unites automobile with a leading technology i.e. augmented and virtual reality and uses the advantages of the latter to solve the problems faced by the former. The book highlights the reasons for the growing abundance and complexity in this sector. Virtual and augmented reality presents a powerful engineering tool that finds application in various engineering fields. It brings new possibilities that result in increasing of productivity and reliability of production, quality of products and processes. The book further illustrates the possible challenges in its applications and suggests ways to overcome them. The book includes nine chapters focusing on automobile collision avoidance, self-driving cars, autonomous vehicles, navigation systems, and many more applications.

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 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.

Approximately 80 percent of the world's population now owns a cell phone, which can hold evi-

dence or contain logs about communications concerning a crime. Cameras, PDAs, and GPS devices can also contain information related to corporate policy infractions and crimes. Aimed to prepare investigators in the public and private sectors, *Digital Forensics for Handheld Devices* examines both the theoretical and practical aspects of investigating handheld digital devices. This book touches on all areas of mobile device forensics, including topics from the legal, technical, academic, and social aspects of the discipline. It provides guidance on how to seize data, examine it, and prepare it as evidence for court. This includes the use of chain of custody forms for seized evidence and Faraday Bags for digital devices to prevent further connectivity and tampering of evidence. Emphasizing the policies required in the work environment, the author provides readers with a clear understanding of the differences between a corporate investigation and a criminal investigation. The book also: Offers best practices for establishing an incident response policy and seizing data from company or privately owned digital devices Provides guidance in establishing dedicated examinations free of viruses, spyware, and connections to other devices that could taint evidence Supplies guidance on determining protocols for complicated crime scenes with external media and devices that may have connected with the handheld device Considering important privacy issues and the Fourth Amendment, this book facilitates an understanding of how to use digital forensic tools to investigate the complete range of available digital devices, including flash drives, cell phones, PDAs, digital cameras, and netbooks. It includes examples of commercially available digital forensic tools and ends with a discussion of the education and certifications required for various careers in mobile device forensics.

This LNCS 12216 constitutes the refereed proceedings of the First International Conference on Design, Operation and Evaluation of Mobile Communications, MOBILE 2020, held as part of HCI International 2020 in Copenhagen, Denmark in July 2020. The conference was held virtually due to the corona pandemic. The total of 1439 papers and 238 posters included in the 40 HCII 2020 proceedings volumes was carefully reviewed and selected from 6326 submissions. The regular papers of Design, Operation and Evaluation of Mobile Communications, MOBILE 2020, presented in this volume were organized in topical section around the subject: Design, Operation and Evaluation of Mobile Communications.

This book presents selected papers from the International Conference on Emerging Research in Computing, Information, Communication and Applications, ERCICA 2018. The conference provided an interdisciplinary forum for researchers, professional engineers and scientists, educators, and technologists to discuss, debate and promote research and technology in the emerging areas of computing, information, communication and their applications. The book discusses these research areas, providing a valuable resource for researchers and practicing engineers alike.

This volume gathers selected, peer-reviewed original contributions presented at the International Conference on Computational Vision and Bio-inspired Computing (ICCVBIC) conference which was held in Coimbatore, India, on November 29–30, 2018. The works included here offer a rich and diverse sampling of recent developments in the fields of Computational Vision, Fuzzy, Image Processing and Bio-inspired Computing. The topics covered include computer vision; cryptography and digital privacy; machine learning and artificial neural networks; genetic algorithms and computational intelligence; the Internet of Things; and biometric systems, to name but a few. The applications discussed range from security, healthcare and epidemic control to urban computing, agriculture and robotics. In this book, researchers, graduate students and professionals will find innovative solutions to real-world problems in industry and society as a whole, together with inspirations for further research.

This book features high-quality research papers presented at the International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2017). It includes sections describing technical advances in the fields of advanced computing and intelligent engineering, which are based on the presented articles. Intended for postgraduate students and researchers working in the discipline of computer science and engineering, the proceedings also appeal to researchers in the domain of electronics as it covers hardware technologies and future communication technologies.

The papers in these two volumes were presented at the International Conference on "NexGen Technologies for Mining and Fuel Industries" [NxGnMiFu-2017] in New Delhi from February 15–17, 2017, organized by CSIR-Central Institute of Mining and Fuel Research, Dhanbad, India. The proceedings include the contributions from authors across the globe on the latest research on mining and fuel technologies. The major issues focused on are: Innovative Mining Technology, Rock Mechanics and Stability Analysis, Advances in Explosives and Blasting, Mine Safety and Risk Management, Computer Simulation and Mine Automation, Natural Resource Management for Sustainable Development,

Environmental Impacts and Remediation, Paste Fill Technology and Waste Utilisation, Fly Ash Management, Clean Coal Initiatives, Mineral Processing and Coal Beneficiation, Quality Coal for Power Generation and Conventional and Non-conventional Fuels and Gases. This collection of contemporary articles contains unique knowledge, case studies, ideas and insights, a must-have for researchers and engineers working in the areas of mining technologies and fuel sciences.

Constitutes the refereed proceedings of the Second International Conference MCO 2008, Metz, France, September 2008. This title organizes the papers in topical sections on optimization and decision making; data mining theory, systems and applications; computer vision and image processing; and computer communications and networks.

This book presents high-quality peer-reviewed papers from the International Conference on Advanced Communication and Computational Technology (ICACCT) 2019 held at the National Institute of Technology, Kurukshehra, India. The contents are broadly divided into four parts: (i) Advanced Computing, (ii) Communication and Networking, (iii) VLSI and Embedded Systems, and (iv) Optimization Techniques. The major focus is on emerging computing technologies and their applications in the domain of communication and networking. The book will prove useful for engineers and researchers working on physical, data link and transport layers of communication protocols. Also, this will be useful for industry professionals interested in manufacturing of communication devices, modems, routers etc. with enhanced computational and data handling capacities.

This book shows how to build a "INFelecPHY GPS Unit" (IEP-GPS) tracking system for fleet management that is based on 3G and GPRS modules. This model should provide reliability since it deals with several protocols: 1) HTTP and HTTPS to navigate, download and upload in real time the information to a web server, 2) FTTP and FTTPS to handle in a non-real time the files to the web application, and 3) SMTP and POP3 to send and receive email directly from the unit in case of any alert. Similar to a mobile device, but without screen for display, it is multifunctional because it links to a GPRS module, a camera, a speaker, headphone, a keypad and screen.

This book provides a systematic and comprehensive overview of AI and machine learning which have got the ability to identify patterns in large and complex data sets. A remarkable success has been experienced in the last decade by emulating the brain computer interface. It presents the cognitive science methods and technologies that have played an important role at the core of practical solutions for a wide scope of tasks between handheld apps, industrial process control, autonomous vehicles, environmental policies, life sciences, playing computer games, computational theory, and engineering development. The chapters in this book focuses on audiences interested in machine learning, cognitive and neuro-inspired computational systems, their theories, mechanisms, and architecture, which underline human and animal behaviour, and their application to conscious and intelligent systems. In the current version, it focuses on the successful implementation and step-by-step explanation of practical applications of the domain. It also offers a wide range of inspiring and interesting cutting-edge contributions on applications of machine learning and cognitive science such as healthcare products, medical electronics, and gaming.

This book constitutes the proceedings of the 15th International Conference on Transport Systems Telematics, TST 2015, held in Wroclaw, Poland, in April 2015. The 35 revised full papers and two short papers included in this volume were carefully reviewed and selected from 115 submissions. The papers provide an overview of solutions being developed in the fields of transport telematics and intelligent transport systems.

This book presents original, peer-reviewed select articles from the International Conference on Cognitive & Intelligent Computing (ICCC - 2021), held on December 11–12, 2021, at Hyderabad, India. The proceedings has cutting edge Research outcome related to Machine learning in control applications, Soft computing, Pattern Recognition, Decision Support Systems, Text analytics and NLP, Statistical Learning, Neural Network Learning, Learning Through Fuzzy Logic, Learning Through Evolution (Evolutionary Algorithms), Reinforcement Learning, Multi-Strategy Learning, Cooperative Learning, Planning And Learning, Multi-Agent Learning, Online And Incremental Learning, Scalability Of Learning Algorithms, Inductive Learning, Inductive Logic Programming, Bayesian Networks, Support Vector Machines, Case-Based Reasoning, Multi-Agent Systems, Human-Computer Interaction, Data Mining and Knowledge Discovery, Knowledge Management and Networks, Data Intensive Computing Architecture, Medicine, Health, Bioinformatics, and Systems Biology, Industrial and Engineering Applications, Security Applications, Smart Cities, Game Playing and Problem Solving, Intelligent Virtual Environments, Economics, Business, And Forecasting Applications. Articles in the book are carefully selected on the basis of their application orientation. The content is expected to be especially useful for Professionals, Researchers, Research students working in the area of cognitive

and intelligent computing.

This book gathers a collection of high-quality peer-reviewed research papers presented at International Conference on Cyber Intelligence and Information Retrieval (CIIR 2021), held at Institute of

Engineering & Management, Kolkata, India during 20-21 May 2021. The book covers research papers in the field of privacy and security in the cloud, data loss prevention and recovery, high-performance networks, network security and cryptography, image and signal processing, artificial im-

mune systems, information and network security, data science techniques and applications, data warehousing and data mining, data mining in dynamic environment, higher-order neural computing, rough set and fuzzy set theory, and nature-inspired computing techniques.