

Essentials Of Electrical And Computer Engineering United

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this book gathers a collection of high quality peer reviewed research papers presented at international conference on cyber intelligence and information retrieval ciir 2023 held at institute of engineering management kolkata india during 14 15 december 2023 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 immune 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

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this book features high quality research papers presented at fifth doctoral symposium on computational intelligence dosci 2024 jointly organised by institute of engineering technology lucknow india and school of open learning university of delhi in association with university of calabria italy on may 10 2024 this book discusses the topics such as computational intelligence artificial intelligence deep learning evolutionary algorithms swarm intelligence fuzzy sets and vague sets rough set theoretic approaches quantum inspired computational intelligence hybrid computational intelligence machine learning computer vision soft computing distributed computing parallel and grid computing cloud computing high performance computing biomedical computing and decision support and decision making

the book emphasizes the technological advancements in tissue engineering related to biomaterials and biomanufacturing techniques it further discusses important topics such as 3d bioprinting process parameter optimization convolutional neural network cnn for stem cell imaging diabetes risk prediction and parkinson s disease detection using machine learning telehealth systems acute pancreatitis and data driven monitoring of chronic diseases this book explores the role of artificial intelligence in designing biomaterials optimizing fabrication processes and predicting tissue formation focuses on technological advancements in tissue engineering related to biomanufacturing techniques and biomaterials discusses the denture base acrylic resins brain tumor detection cnn for stem cell imaging and machine learning for diabetes risk prediction and parkinson s disease detection covers acute myocardial infarction post operative urinary retention telehealth systems graph convolutional network and acute pancreatitis explains the role of serum magnesium levels in febrile convulsions and apache ii score and ranson criteria with modified ct severity index it is primarily written for senior undergraduates graduate students and academic researchers in the fields of manufacturing engineering

biomedical engineering materials science biomaterials mechanical engineering and production engineering

computational intelligence in cancer diagnosis progress and challenges provides insights into the current strength and weaknesses of different applications and research findings on computational intelligence in cancer research the book improves the exchange of ideas and coherence among various computational intelligence methods and enhances the relevance and exploitation of application areas for both experienced and novice end users topics discussed include neural networks fuzzy logic connectionist systems genetic algorithms evolutionary computation cellular automata self organizing systems soft computing fuzzy systems and hybrid intelligent systems the book s chapters are written by international experts from both cancer research oncology and computational sides to cover different aspects and make it comprehensible for readers with no background on informatics contains updated information about advanced computational intelligence spanning the areas of neural networks fuzzy logic connectionist systems genetic algorithms evolutionary computation cellular automata self organizing systems soft computing fuzzy systems and hybrid intelligent systems in diagnosing cancer diseases discusses several cancer types including their detection treatment and prevention presents case studies that illustrate the applications of intelligent computing in data analysis to help readers to analyze and advance their research in cancer

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reflecting recent advancements security of self organizing networks manet wsn wmn vanet explores wireless network security from all angles it begins with a review of fundamental security topics and often used terms to set the foundation for the following chapters examining critical security issues in a range of wireless networks the bo

this book includes selected peer reviewed papers presented at the international conference on trends in electronics and health informatics tehi 2023 held at institute of information technology jahangirnagar university dhaka bangladesh during december 26 27 2023 the book is broadly divided into five sections artificial intelligence and soft computing healthcare informatics internet of things and data analytics electronics and communications

this book includes high quality research papers presented at the sixth international conference on innovative computing and communication icicc 2023 which is held at the shaheed sukhdev college of business studies university of delhi delhi india on february 17 18 2023 introducing the innovative works of scientists professors research scholars students and industrial experts in the field of computing and communication the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real time applications

this book gathers the latest research with case studies in secure computing from many researchers it compiles the recent work and findings through case studies where the growing security attacks and countermeasures in the mobile and networking world has been explained along with other pertinent security issues with the technology of the application itself it discusses the challenges faced and solutions proposed by different researchers in this area

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