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Liu Ying Tan Raffaele Montella Pradeep Kumar Singh Xuefeng Zhou Peng You Jian-Huang Lai Jinyang Liang Andrea Vedaldi

energy production systems engineering presents ieee electrical apparatus service association easa and international electrotechnical commission iec standards of engineering systems and equipment in utility electric generation stations includes fundamental combustion reaction equations provides methods for measuring radioactivity and exposure limits includes ieee american petroleum institute api and national electrical manufacturers association nema standards for motor applications introduces the ieee c37 series of standards which describe the proper selections and applications of switchgear describes how to use ieee 80 to calculate the touch and step potential of a ground grid design this book enables engineers and students to acquire through study the pragmatic knowledge and skills in the field that could take years to acquire through experience alone

this book constitutes the proceedings of the third international conference on 6g for future wireless networks 6gn 2020 held in tianjin china in august 2020 the conference was held virtually due to the covid 19 pandemic the 45 full papers were selected from 109 submissions and present the state of the art and practical applications of 6g technologies the papers are arranged thematically on network scheduling and optimization wireless system and platform intelligent applications network performance evaluation cyber security and privacy technologies for private 5g 6g

the proceedings covers advanced and multi disciplinary research on design of smart computing and informatics the theme of the book broadly focuses on various innovation paradigms in system knowledge intelligence and sustainability that may be applied to provide realistic solution to varied problems in society environment and industries the volume publishes quality work pertaining to the scope of the conference which is extended towards deployment of emerging computational and knowledge transfer approaches optimizing solutions in varied disciplines of science technology and healthcare

this book constitutes the revised selected papers from the 15th european conference on multi agent systems eumas 2017 and the 5th international conference on agreement technologies at 2017 held in evry france in december 2017 the 28 full papers 3 short papers and 2 invited papers for eumas and the 14 full papers and 2 short papers for at presented in this volume were carefully reviewed and selected from a total of 76 submissions the papers cover thematic areas like agent based modelling logic and formal methods argumentation and rational choice simulation games negotiation planning and coalitions algorithms and frameworks applications and philosophical and theoretical studies

power electronics handbook fourth edition brings together over 100 years of combined experience in the specialist areas of power engineering to offer a

fully revised and updated expert guide to total power solutions designed to provide the best technical and most commercially viable solutions available this handbook undertakes any or all aspects of a project requiring specialist design installation commissioning and maintenance services comprising a complete revision throughout and enhanced chapters on semiconductor diodes and transistors and thyristors this volume includes renewable resource content useful for the new generation of engineering professionals this market leading reference has new chapters covering electric traction theory and motors and wide band gap wbg materials and devices with this book in hand engineers will be able to execute design analysis and evaluation of assigned projects using sound engineering principles and adhering to the business policies and product program requirements includes a list of leading international academic and professional contributors offers practical concepts and developments for laboratory test plans includes new technical chapters on electric vehicle charging and traction theory and motors includes renewable resource content useful for the new generation of engineering professionals

the wavelet is a powerful mathematical tool that plays an important role in science and technology this book looks at some of the most creative and popular applications of wavelets including biomedical signal processing image processing communication signal processing internet of things iot acoustical signal processing financial market data analysis energy and power management and covid 19 pandemic measurements and calculations the editor s personal interest is the application of wavelet transform to identify time domain changes on signals and corresponding frequency components and in improving power amplifier behavior

this book presents the proceedings of the 1st international conference on artificial intelligence and computer visions aicv 2020 which took place in cairo egypt from april 8 to 10 2020 this international conference which highlighted essential research and developments in the fields of artificial intelligence and computer visions was organized by the scientific research group in egypt srge the book is divided into sections covering the following topics swarm based optimization mining and data analysis deep learning and applications machine learning and applications image processing and computer vision intelligent systems and applications and intelligent networks

comprehensive treatment of several representative flexible systems ranging from dynamic modeling and intelligent control design through to stability analysis fully illustrated throughout dynamic modeling and neural network based intelligent control of flexible systems proposes high efficiency modeling methods and novel intelligent control strategies for several representative flexible systems developed by means of neural networks it discusses tracking control of multi link flexible manipulators vibration control of flexible buildings under natural disasters and fault tolerant control of bionic flexible flapping

wing aircraft and addresses common challenges like external disturbances dynamic uncertainties output constraints and actuator faults expanding on its theoretical deliberations the book includes many case studies demonstrating how the proposed approaches work in practice experimental investigations are carried out on quanser rotary flexible link quanser 2 dof serial flexible link quanser active mass damper and quanser smart structure platforms the book starts by providing an overview of dynamic modeling and intelligent control of flexible systems introducing several important issues along with modeling and control methods of three typical flexible systems other topics include foundational mathematical preliminaries including the hamilton principle model discretization methods lagrange s equation method and lyapunov s stability theorem dynamic modeling of a single link flexible robotic manipulator and vibration control design for a string with the boundary time varying output constraint unknown time varying disturbances such as earthquakes and strong winds and how to suppress them and use matlab and quanser to verify effectiveness of a proposed control adaptive vibration control methods for a single floor building like structure equipped with an active mass damper and dynamic modeling and neural network based intelligent control of flexible systems is an invaluable resource for researchers and engineers seeking high efficiency modeling methods and neural network based control solutions for flexible systems along with industry engineers and researchers who are interested in control theory and applications and students in related programs of study

this two volume set constitutes the post conference proceedings of the 5th eai international conference on advanced hybrid information processing adhip 2021 held in october 2021 due to covid 19 the conference was held virtually the 94 papers presented were selected from 254 submissions and focus on theory and application of hybrid information processing technology for smarter and more effective research and application the theme of adhip 2020 was social hybrid data processing the papers are named in topical sections as follows intelligent algorithms in complex environment ai system research and model design method research on internet of things technology research and analysis with intelligent education

the lncs volume lncs 9714 constitutes the refereed proceedings of the international conference on data mining and big data dmbd 2016 held in bali indonesia in june 2016 the 57 papers presented in this volume were carefully reviewed and selected from 115 submissions the theme of dmbd 2016 is serving life with data science data mining refers to the activity of going through big data sets to look for relevant or pertinent information the papers are organized in 10 cohesive sections covering all major topics of the research and development of data mining and big data and one workshop on computational aspects of pattern recognition and computer vision

this book constitutes the proceedings of the 12th international conference on internet and distributed systems held in naples italy in october 2019 the 47

revised full papers presented were carefully reviewed and selected from 145 submissions this conference desires to look for inspiration in diverse areas e g infrastructure system design software development big data control theory artificial intelligence iot self adaptation emerging models paradigms applications and technologies related to internet based distributed systems to develop new ways to design and manage such complex and adaptive computation resources

this book features selected research papers presented at the first international conference on computing communications and cyber security ic4s 2019 organized by northwest group of institutions punjab india southern federal university russia and iac educational trust india along with kee ghaziabad and its college ghaziabad as an academic partner and held on 12 13 october 2019 it includes innovative work from researchers leading innovators and professionals in the area of communication and network technologies advanced computing technologies data analytics and intelligent learning the latest electrical and electronics trends and security and privacy issues

this open access book focuses on robot introspection which has a direct impact on physical human robot interaction and long term autonomy and which can benefit from autonomous anomaly monitoring and diagnosis as well as anomaly recovery strategies in robotics the ability to reason solve their own anomalies and proactively enrich owned knowledge is a direct way to improve autonomous behaviors to this end the authors start by considering the underlying pattern of multimodal observation during robot manipulation which can effectively be modeled as a parametric hidden markov model hmm they then adopt a nonparametric bayesian approach in defining a prior using the hierarchical dirichlet process hdp on the standard hmm parameters known as the hierarchical dirichlet process hidden markov model hdp hmm the hdp hmm can examine an hmm with an unbounded number of possible states and allows flexibility in the complexity of the learned model and the development of reliable and scalable variational inference methods this book is a valuable reference resource for researchers and designers in the field of robot learning and multimodal perception as well as for senior undergraduate and graduate university students

this book is a collection of the papers accepted by the icivis 2022 the international conference on image vision and intelligent systems held on august 15 17 2022 in jinan china the topics focus but are not limited to image vision and intelligent systems each part can be used as an excellent reference by industry practitioners university faculties research fellows and undergraduates as well as graduate students who need to build a knowledge base of the most current advances and state of practice in the topics covered by this conference proceedings

the four volume set lncs 11256 11257 11258 and 11259 constitutes the refereed proceedings of the first chinese conference on pattern recognition and computer vision prcv 2018 held in guangzhou china in november 2018 the 179 revised full papers presented were carefully reviewed and selected from 399 submissions the papers have been organized in the following topical sections part i biometrics computer vision application part ii deep learning part iii document analysis face recognition and analysis feature extraction and selection machine learning part iv object detection and tracking performance evaluation and database remote sensing

this book provides a comprehensive survey of coded optical imaging illustrated with 386 figures it takes readers from the fundamental concepts and theories to the latest research and applications in this field it can be used in graduate level courses in optics and photonics it can also benefit scientists and engineers in optical imaging computer graphics and other related disciplines this book starts from a brief history of coded optical imaging and key operations in its data acquisition and image reconstruction it then presents the latest progress in technological development and applications in the areas of biomedicine materials science industrial inspection optical physics imaging science information theory and more chapters describe the most representative techniques exposing readers to key research themes including optical signal encoding image reconstruction techniques compressed sensing artificial intelligence metasurface structured light lensless imaging holography tomography light field imaging ultrafast imaging hyperspectral imaging polarization imaging super resolution imaging

the 30 volume set comprising the lncs books 12346 until 12375 constitutes the refereed proceedings of the 16th european conference on computer vision eccv 2020 which was planned to be held in glasgow uk during august 23 28 2020 the conference was held virtually due to the covid 19 pandemic the 1360 revised papers presented in these proceedings were carefully reviewed and selected from a total of 5025 submissions the papers deal with topics such as computer vision machine learning deep neural networks reinforcement learning object recognition image classification image processing object detection semantic segmentation human pose estimation 3d reconstruction stereo vision computational photography neural networks image coding image reconstruction object recognition motion estimation

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