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Engineering Applications of Neural Networks
 Security in Computing and Communications
 Detection of Intrusions and Malware, and Vulnerability Assessment
 Pattern Recognition and Computer Vision
 Proceedings of Second International Conference on Electrical Systems, Technology and Information 2015 (ICESTI 2015)
 Handbook of Fire and Explosion Protection Engineering Principles
 Learning Approaches in Signal Processing
 Computational Techniques for Human Smile Analysis
 Interference and Resource Management in Heterogeneous Wireless Networks
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 E-Learning
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 Advanced Control Techniques in Complex Engineering Systems: Theory and Applications
 Proceedings of the International Conference on Microelectronics, Computing & Communication Systems
 Multimodal Communication in Political Speech Shaping Minds and Social Action
 Human Behavior Understanding
 Standard Handbook for Electrical Engineers, Seventeenth Edition

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Engineering Applications of Neural Networks Springer
 The 30th Anniversary of the ISCIS (International Symposium on Computer and Information Sciences) series of conferences, started by Professor Erol Gelenbe at Bilkent University, Turkey, in 1986, will be held at Imperial College London on September 22-24, 2015. The preceding two ISCIS conferences were held in Krakow, Poland in 2014, and in Paris, France, in 2013. The Proceedings of ISCIS 2015 published by Springer brings together rigorously reviewed contributions from leading international experts. It explores new areas of research and technological development in computer science, computer engineering, and information technology, and presents new applications in fast changing fields such as information science, computer science and bioinformatics. The topics covered include (but are not limited to) advances in networking technologies, software defined networks, distributed systems and the cloud, security in the Internet of Things, sensor systems, and machine learning and

large data sets.

Security in Computing and Communications Springer Nature
 The book highlights several challenges and opportunities in the field of software engineering for serious games. It covers a wide range of topics from game design principles to software architecture, testing, and deployment and is structured into two parts. While Part I delves into various aspects of designing, maintaining, adapting, and evaluating games in serious contexts; Part II focuses on the experiences of realizing and using games in serious contexts. One of the primary challenges is to develop effective methods for evaluating serious games and measuring their impact and outcomes. Another challenge is to design serious games that are both engaging and effective, which requires a deep understanding of game design principles and instructional design. The book also emphasizes the need to develop effective software engineering practices for serious game development and the importance of gamification in improving user engagement and motivation. The potential of serious games for addressing societal challenges such as cybersecurity and healthcare is also highlighted. Despite these challenges, the book also identifies several opportunities for the

field, including the potential of serious games to provide new and innovative approaches to learning and the potential of serious games to address real-world problems in new and effective ways. This book is intended for software engineers, game developers, educators, and anyone interested in how games in serious contexts can be effectively created. Overall, the chapters in the book provide a valuable snapshot of the current state of the field and offer insights into where it may be headed in the future.

Detection of Intrusions and Malware, and Vulnerability Assessment Springer

This book constitutes the refereed proceedings of the 4th International Workshop on Human Behavior Understanding, HBU 2013, held in Barcelona, Spain, in October 2013. The 21 papers presented were carefully reviewed and selected from 50 submissions. The papers are grouped in topical sections on: behaviour and affect in arts, creativity, entertainment, and edutainment applications; actions and activities; facial behavior; social signals; and affective signals.

Pattern Recognition and Computer Vision Springer

Go in-depth with this comprehensive discussion of distributed energy management Distributed Energy Management of Electrical Power Systems provides the most complete analysis of fully distributed control approaches and their applications for electric power systems available today. Authored by four respected leaders in the field, the book covers the technical aspects of control, operation management, and optimization of electric power systems. In each chapter, the book covers the foundations and fundamentals of the topic under discussion. It then moves on to more advanced applications. Topics reviewed in the book include: System-level coordinated control Optimization of active and reactive power in power grids The coordinated control of distributed generation, elastic load and energy storage systems Distributed Energy Management incorporates discussions of emerging and future technologies and their potential effects on electrical power systems. The increased impact of renewable energy sources is also covered. Perfect for industry practitioners and graduate students in the field of power systems, Distributed Energy Management remains the leading reference for anyone with an interest in its fascinating subject matter.

Proceedings of Second International Conference on Electrical Systems, Technology and Information 2015 (ICESTI 2015)

Springer Nature

In this book, we can read about new technologies that enhance training and performance; discover new, exciting ways to design and deliver content; and have access to proven strategies, practices and solutions shared by experts. The authors of this book come from all over the world; their ideas, studies, findings and experiences are beneficial contributions to enhance our knowledge in the field of e-learning. The book is divided into three sections, and their respective chapters refer to three macro areas. The first section of the book covers Instructional Design of E-learning, considering methodology and tools for designing e-learning environments and courseware. Also, there are examples of effective ways of gaming and educating. The second section is about Organizational Strategy and Management. The last section deals with the new Developments in E-learning Technology, emphasizing subjects like knowledge building by mobile e-learning systems, cloud computing and new proposals for virtual learning environments/platforms.

Handbook of Fire and Explosion Protection Engineering Principles Springer

This book includes the original, peer-reviewed research papers from the 2nd International Conference on Electrical Systems, Technology and Information (ICESTI 2015), held in September

2015 at Patra Jasa Resort & Villas Bali, Indonesia. Topics covered include: Mechatronics and Robotics, Circuits and Systems, Power and Energy Systems, Control and Industrial Automation, and Information Theory. It explores emerging technologies and their application in a broad range of engineering disciplines, including communication technologies and smart grids. It examines hybrid intelligent and knowledge-based control, embedded systems, and machine learning. It also presents emerging research and recent application in green energy system and storage. It discusses the role of electrical engineering in biomedical, industrial and mechanical systems, as well as multimedia systems and applications, computer vision and image and signal processing. The primary objective of this series is to provide references for dissemination and discussion of the above topics. This volume is unique in that it includes work related to hybrid intelligent control and its applications. Engineers and researchers as well as teachers from academia and professionals in industry and government will gain valuable insights into interdisciplinary solutions in the field of emerging electrical technologies and its applications.

Learning Approaches in Signal Processing Springer

This book constitutes the refereed proceedings of the 16th International Conference on Engineering Applications of Neural Networks, EANN 2015, held in Rhodes, Greece, in September 2015. The 36 revised full papers presented together with the abstracts of three invited talks and two tutorials were carefully reviewed and selected from 84 submissions. The papers are organized in topical sections on industrial-engineering applications of ANN; bioinformatics; intelligent medical modeling; life-earth sciences intelligent modeling; learning-algorithms; intelligent telecommunications modeling; fuzzy modeling; robotics and control; smart cameras; pattern recognition-facial mapping; classification; financial intelligent modeling; echo state networks.

Computational Techniques for Human Smile Analysis Springer Nature

This book constitutes the refereed proceedings of the Third European Conference on Service-Oriented and Cloud computing, ESOC 2014, held in Manchester, UK, in September 2014. The 13 papers presented were carefully reviewed and selected from 38 submissions. The papers are organized in topical sections on cloud technology, service composition, software development and cloud technology, cloud computing, industry track.

Interference and Resource Management in Heterogeneous Wireless Networks Springer Nature

This authoritative resource offers a comprehensive overview of heterogeneous wireless networks, small cells, and device-to-device (D2D) communications. The book provides insight into network modeling and performance analysis of heterogeneous wireless networks. Interference management framework and design issues are covered as well as details about resource mobility, channel models, and typical and statistical interference modeling. This resource explains leveraging resource heterogeneity in interference mitigation and presents the challenges and feasible solutions for concurrent transmission. Moreover, complete coverage of interference alignment in MIMO heterogeneous networks for both downlink and uplink is presented. This book provides performance results for an ideal partially connected interference network as well as a practical heterogeneous network. Readers find practical guidance for LTE and LTE-Advanced as well as 5G in this resource. New techniques and designs for heterogeneous wireless networks are included.

Service-Oriented and Cloud Computing Springer Nature

The five-volume set LNCS 9003--9007 constitutes the thoroughly refereed post-conference proceedings of the 12th Asian

Conference on Computer Vision, ACCV 2014, held in Singapore, Singapore, in November 2014. The total of 227 contributions presented in these volumes was carefully reviewed and selected from 814 submissions. The papers are organized in topical sections on recognition; 3D vision; low-level vision and features; segmentation; face and gesture, tracking; stereo, physics, video and events; and poster sessions 1-3.

IEEE Std 979-2012 CRC Press

The book is a compilation of high-quality scientific papers presented at the 3rd International Conference on Computer & Communication Technologies (IC3T 2016). The individual papers address cutting-edge technologies and applications of soft computing, artificial intelligence and communication. In addition, a variety of further topics are discussed, which include data mining, machine intelligence, fuzzy computing, sensor networks, signal and image processing, human-computer interaction, web intelligence, etc. As such, it offers readers a valuable and unique resource.

E-Learning Springer

In this book, the authors discuss the recent developments in computational techniques for automated non-invasive facial emotion detection and analysis with particular focus on the smile. By way of applications, they discuss how genuine and non-genuine smiles can be inferred, how gender is encoded in a smile and how it is possible to use the dynamics of a smile itself as a biometric feature. It is often said that the face is a window to the soul. Bearing a metaphor of this nature in mind, one might find it intriguing to understand, if any, how the physical, behavioural as well as emotional characteristics of a person could be decoded from the face itself. With the increasing deductive power of machine learning techniques, it is becoming plausible to address such questions through the development of appropriate computational frameworks. Though there are as many as over twenty five categories of emotions one could express, regardless of the ethnicity, gender or social class, across humanity, there exist six common emotions - namely happiness, sadness, surprise, fear, anger and disgust - all of which can be inferred from facial expressions. Of these facial expressions, the smile is the most prominent in social interactions. The smile bears important ramifications with beliefs such as it makes one more attractive, less stressful in upsetting situations and employers tending to promote people who smile often. Even pockets of scientific research appear to be forthcoming to validate such beliefs and claims, e.g. the smile intensity observed in photographs positively correlates with longevity, the ability to win a fight and whether a couple would stay married. Thus, it appears that many important personality traits are encoded in the smile itself. Therefore, the deployment of computer based algorithms for studying the human smiles in greater detail is a plausible avenue for which the authors have dedicated the discussions in this book.

Data Engineering and Intelligent Computing Springer

This book constitutes the thoroughly refereed post-conference proceedings of the International Workshop on Multimodal Communication in Political Speech: Shaping Minds and Social Actions, held in Rome, Italy, during November 10-12, 2010. The 16 regular papers were carefully reviewed and selected from 33 submissions and presented with three key-notes. The purpose of the Political Speech workshops is to provide a forum for discussing research areas of persuasive agents and social signal processing. This book covers topics on multimodal aspects of political communication, including persuasion, fallacies, racist discourse, as well as music, autobiographic memories, metonymies, dominant postures, rhetorical strategies, interruptions, intonation, and voice appeal.

Complex Systems: Spanning Control and Computational Cybernetics: Applications Springer

Up-to-date coverage of every facet of electric power in a single volume This fully revised, industry-standard resource offers practical details on every aspect of electric power engineering. The book contains in-depth discussions from more than 100 internationally recognized experts. Generation, transmission, distribution, operation, system protection, and switchgear are thoroughly explained. Standard Handbook for Electrical Engineers, Seventeenth Edition, features brand-new sections on measurement and instrumentation, interconnected power grids, smart grids and microgrids, wind power, solar and photovoltaic power generation, electric machines and transformers, power system analysis, operations, stability and protection, and the electricity market. Coverage includes: •Units, symbols, constants, definitions, and conversion factors •Measurement and instrumentation •Properties of materials •Interconnected power grids •AC and DC power transmission •Power distribution •Smart grids and microgrids •Wind power generation •Solar power generation and energy storage •Substations and switch gear •Power transformers, generators, motors, and drives •Power electronics •Power system analysis, operations, stability, and protection •Electricity markets •Power quality and reliability •Lightning and overvoltage protection •Computer applications in the electric power industry •Standards in electrotechnology, telecommunications, and IT

Information Sciences and Systems 2015 Springer

This book constitutes the refereed proceedings of the 11th International Conference on Detection of Intrusions and Malware, and Vulnerability Assessment, DIMVA 2014, held in Egham, UK, in July 2014. The 13 revised full papers presented together with one extended abstract were carefully reviewed and selected from 60 submissions. The papers are organized in topical sections on malware, mobile security, network security and host security.

IEEE Std 979-2012 Springer Nature

This book presents Dual Mode Logic (DML), a new design paradigm for digital integrated circuits. DML logic gates can operate in two modes, each optimized for a different metric. Its on-the-fly switching between these operational modes at the gate, block and system levels provide maximal E-D optimization flexibility. Each highly detailed chapter has multiple illustrations showing how the DML paradigm seamlessly implements digital circuits that dissipate less energy while simultaneously improving performance and reducing area without a significant compromise in reliability. All the facets of the DML methodology are covered, starting from basic concepts, through single gate optimization, general module optimization, design trade-offs and new ways DML can be integrated into standard design flows using standard EDA tools. DML logic is compatible with numerous applications but is particularly advantageous for ultra-low power, reliable high performance systems, and advanced scaled technologies Written in language accessible to students and design engineers, each topic is oriented toward immediate application by all those interested in an alternative to CMOS logic. Describes a novel, promising alternative to conventional CMOS logic, known as Dual Mode Logic (DML), with which a single gate can be operated selectively in two modes, each optimized for a different metric (e.g., energy consumption, performance, size); Demonstrates several techniques at the architectural level, which can result in high energy savings and improved system performance; Focuses on the tradeoffs between power, area and speed including optimizations at the transistor and gate level, including alternatives to DML basic cells; Illustrates DML efficiency for a variety of VLSI applications.

International Oilfield Surface Facilities McGraw Hill Professional

This book constitutes the refereed proceedings of the 6th International Symposium on Security in Computing and Communications, SSCC 2018, held in Bangalore, India, in September 2018. The 34 revised full papers and 12 revised short papers presented were carefully reviewed and selected from 94 submissions. The papers cover wide research fields including cryptography, database and storage security, human and societal aspects of security and privacy.

Workshop Proceedings of the 9th International Conference on Intelligent Environments Springer

The five-volume set LNCS 14073-14077 constitutes the proceedings of the 23rd International Conference on Computational Science, ICCS 2023, held in Prague, Czech Republic, during July 3-5, 2023. The total of 188 full papers and 94 short papers presented in this book set were carefully reviewed and selected from 530 submissions. 54 full and 37 short papers were accepted to the main track; 134 full and 57 short papers were accepted to the workshops/thematic tracks. The theme for 2023, "Computation at the Cutting Edge of Science", highlights the role of Computational Science in assisting multidisciplinary research. This conference was a unique event focusing on recent developments in scalable scientific algorithms, advanced software tools; computational grids; advanced numerical methods; and novel application areas. These innovative novel models, algorithms, and tools drive new science through efficient application in physical systems, computational and systems biology, environmental systems, finance, and others.

Software Engineering for Games in Serious Contexts Springer

Coupled with machine learning, the use of signal processing techniques for big data analysis, Internet of things, smart cities, security, and bio-informatics applications has witnessed explosive

growth. This has been made possible via fast algorithms on data, speech, image, and video processing with advanced GPU technology. This book presents an up-to-date tutorial and overview on learning technologies such as random forests, sparsity, and low-rank matrix estimation and cutting-edge visual/signal processing techniques, including face recognition, Kalman filtering, and multirate DSP. It discusses the applications that make use of deep learning, convolutional neural networks, random forests, etc. The applications include super-resolution imaging, fringe projection profilometry, human activities detection/capture, gesture recognition, spoken language processing, cooperative networks, bioinformatics, DNA, and healthcare.

Signal Processing and Information Technology Springer

Handbook of Fire and Explosion Protection Engineering Principles for the Oil, Gas, Chemical, and Related Facilities, Fourth Edition, discusses high-level risk analysis and advanced technical considerations, such as process control, emergency shut-downs, and evaluation procedures. As more engineers and managers are adopting risk-based approaches to minimize risk, maximize profits, and keep operations running smoothly, this reference encompasses all the critical equipment and standards necessary for the process industries, including oil and gas. Updated with new information covering fire and explosion resistant systems, drainage systems, and human factors, this book delivers the equipment standards needed to protect today's petrochemical assets and facilities. Provides tactics on how to revise and upgrade company policies to support safer designs and equipment Helps readers understand the latest in fire suppression and explosion risks for a process plant in a single source Updates on how to evaluate concerns, thus helping engineers and managers process operating requests and estimate practical cost benefit factors