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Transaction Paper Abstracts - May 2011 (IEEE Transactions on Power Systems) Listed below are the papers that have been published in the May 2011 issue of the IEEE Transactions on Power Systems, links to their abstracts, and the discussion deadline. Papers. Robust Optimal Power Flow Solution Using Trust Region and Interior-Point Methods

Transaction Paper Abstracts - May 2011 (IEEE Transactions ...

Transaction Paper Abstracts - August 2011 (IEEE Transactions on Power Systems) Listed below are the papers that have been published in the August 2011 issue of the IEEE Transactions on Power Systems, links to their abstracts, and the discussion deadline. Papers.

Transaction Paper Abstracts - August 2011 (IEEE ...

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Transaction Paper Abstracts - February 2011 (IEEE Transactions on Power Systems) Technical Areas: The technical areas covered in the IEEE Transactions on Power Systems are listed below. Click on a specific technical area for a list of the papers in that technical area that have been published in the February 2011 issue, links to their abstracts, and the discussion deadline.

Transaction Paper Abstracts - February 2011 (IEEE ...

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IEEE Transactions on Neural Networks and Learning Systems Outstanding Paper Award Published in 2016: Tong Wang, Huijun Gao, and Jianbin Qiu, for the paper entitled "A Combined Adaptive Neural Network and Nonlinear Model Predictive Control for Multirate Networked Industrial Process Control," IEEE Transactions on Neural Networks and Learning Systems, vol. 27, no. 2, pp. 416-425, February 2016.

Past Recipients - IEEE Computational Intelligence Society

The IEEE Transactions on Consumer Electronics publishes four issues per year on the latest research in the field of Consumer Electronics applicable to the scope of the journal. Enhanced papers from other IEEE Consumer Technology Society conferences may be submitted at any time.

IEEE Transactions on Consumer Electronics - IEEE Consumer ...

3090 IEEE TRANSACTIONS ON COMMUNICATIONS, VOL. 59, NO. 11, NOVEMBER 2011 Reduced-Complexity Coherent Versus Non-Coherent QAM-Aided Space-Time Shift Keying Shinya Sugiura, Member, IEEE, Chao Xu, Student Member, IEEE, Soon Xin Ng, Senior Member, IEEE, and Lajos Hanzo, Fellow, IEEE Abstract—A novel reduced-complexity near-optimal detection

3090 IEEE TRANSACTIONS ON COMMUNICATIONS, VOL. 59, NO. 11 ...

2860 IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS—I: REGULAR PAPERS, VOL. 58, NO. 12, DECEMBER 2011 in a design independently (local ABB), to mitigate D2D and WID variations. However, supplying so many separate voltages inside a die results in a large area overhead. On the other hand, using the same body bias for all devices on the same die (global

IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS—I: REGULAR ...

IEEE Transactions on Robotics King-Sun Fu Memorial Best Paper Award About the Award. Description: To recognize the best paper published annually in the IEEE Transactions on Robotics Established: 2004 Prize: \$1,000 and Certificate Funding: Funded by the IEEE Robotics and Automation Society Eligibility: Authors of papers published in the IEEE Transactions on Robotics during the calendar year of ...

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The IEEE Author Center contains tools and information to assist with article preparation and submission, the article proof review process, ordering reprints, and other helpful tips and guidelines.. IEEE Style Manual (PDF, 132 KB) A manual outlining editorial guidelines for IEEE Transactions, Journals, and Letters. Keywords Suggested for Authors

Information and Resources for Authors - IEEE Electronics ...

222 IEEE TRANSACTIONS ON NEURAL SYSTEMS AND REHABILITATION ENGINEERING, VOL. 19, NO. 3, JUNE 2011 feature and, hence, no within-group correlation is modeled. From this point of view, the proposed CLDA algorithm is a generalized version of DLDA. It aims to achieve improved decoding accuracy by accurately capturing the correlation

IEEE TRANSACTIONS ON NEURAL SYSTEMS AND REHABILITATION ...

2420 IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS—I: REGULAR PAPERS, VOL. 58, NO. 10, OCTOBER 2011 A SIMD Cellular Processor Array Vision Chip With Asynchronous Processing Capabilities Alexey Lopich, Member, IEEE, and Piotr Dudek, Senior Member, IEEE Abstract—This paper describes an architecture and implemen-

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TO APPEAR IN IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS 12 our meta algorithm. In the following, we use a batch of tasks (include Nb tasks) as an example to introduce the two processes in Fig. 2. The same neural network architecture is used in inner-task update and cross-task update.

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The Second Edition of the bestselling Measurement, Instrumentation, and Sensors Handbook brings together all aspects of the design and implementation of measurement, instrumentation, and sensors. Reflecting the current state of the art, it describes the use of instruments and techniques for performing practical measurements in engineering, physics, chemistry, and the life sciences and discusses processing systems, automatic data acquisition, reduction and analysis, operation characteristics, accuracy, errors, calibrations, and the incorporation of standards for control purposes. Organized according to measurement problem, the Electromagnetic, Optical, Radiation, Chemical, and Biomedical Measurement volume of the Second Edition: Contains contributions from field experts, new chapters, and updates to all 98 existing chapters Covers sensors and sensor technology, time and frequency, signal processing, displays and recorders, and optical, medical, biomedical, health, environmental, electrical, electromagnetic, and chemical variables A concise and useful reference for engineers, scientists, academic faculty, students, designers, managers, and industry professionals involved in instrumentation and measurement research and development, Measurement, Instrumentation, and Sensors Handbook, Second Edition: Electromagnetic, Optical, Radiation, Chemical, and Biomedical Measurement provides readers with a greater understanding of advanced applications.

In recent years, our world has experienced a profound shift and progression in available computing and knowledge sharing innovations. These emerging advancements have developed at a rapid pace, disseminating into and affecting numerous aspects of contemporary society. This has created a pivotal need for an innovative compendium encompassing the latest trends, concepts, and issues surrounding this relevant discipline area. During the past 15 years, the Encyclopedia of Information Science and Technology has become recognized as one of the landmark sources of the latest knowledge and discoveries in this discipline. The Encyclopedia of Information Science and Technology, Fourth Edition is a 10-volume set which includes 705 original and previously unpublished research articles covering a full range of perspectives, applications, and techniques contributed by thousands of experts and researchers from around the globe. This authoritative encyclopedia is an all-encompassing, well-established reference source that is ideally designed to disseminate the most forward-thinking and diverse research findings. With critical perspectives on the impact of information science management and new technologies in modern settings, including but not limited to computer science, education, healthcare, government, engineering, business, and natural and physical sciences, it is a pivotal and relevant source of knowledge that will benefit every professional within the field of information science and technology and is an invaluable addition to every academic and corporate library.

Optimization techniques have developed into a modern-day solution for real-world problems in various industries. As a way to improve performance and handle issues of uncertainty, optimization research becomes a topic of special interest across disciplines. Problem Solving and Uncertainty Modeling through Optimization and Soft Computing Applications presents the latest research trends and developments in the area of applied optimization methodologies and soft computing techniques for solving complex problems. Taking a multi-disciplinary approach, this critical publication is an essential reference source for engineers, managers, researchers, and post-graduate students.

This second edition of the highly acclaimed RF Power Amplifiers has been thoroughly revised and expanded to reflect the latest challenges associated with power transmitters used in communications systems. With more rigorous treatment of many concepts, the new edition includes a unique combination of class-tested analysis and industry-proven design techniques. Radio frequency (RF) power amplifiers are the fundamental building blocks used in a vast variety of wireless communication circuits, radio and TV broadcasting transmitters, radars, wireless energy transfer, and industrial processes. Through a combination of theory and practice, RF Power Amplifiers, Second Edition provides a solid understanding of the key concepts, the principle of operation, synthesis, analysis, and design of RF power amplifiers. This extensive update boasts: up to date end of chapter summaries; review questions and problems; an expansion on key concepts; new examples related to real-world applications illustrating key concepts and brand new chapters covering 'hot topics' such as RF LC oscillators and dynamic power supplies. Carefully edited for superior readability, this work remains an essential reference for research & development staff and design engineers. Senior level undergraduate and graduate electrical engineering students will also find it an invaluable resource with its practical examples & summaries, review questions and end of chapter problems. Key features: • A fully revised solutions manual is now hosted on a companion website alongside new simulations. • Extended treatment of a broad range of topologies of RF power amplifiers. • In-depth treatment of state-of-the art of modern transmitters and a new chapter on oscillators. • Includes problem-solving methodology, step-by-step derivations and closed-form design equations with illustrations.

Recent advances in technology and manufacturing have made it possible to create small, powerful, energy-efficient, cost-effective sensor nodes for specialized telecommunication applications—nodes "smart" enough to be capable of adaptation, self-awareness, and self-organization. Sensor Networks for Sustainable Development examines sensor network technologies that increase the quality of human life and encourage societal progress with minimal effect on the earth's natural resources and environment. Organized as a collection of articles authored by leading experts in the field, this valuable reference captures the current state of the art and explores applications where sensor networks are used for sustainable development in: Agriculture Environment Energy Healthcare Transportation Disaster management Beneficial to designers and planners of emerging telecommunication networks, researchers in related industries, and students and academia seeking to learn about the impact of sensor networks on sustainable development. Sensor Networks for Sustainable Development provides scientific tutorials and technical information about smart sensor networks and their use in everything from remote patient monitoring to improving safety on the roadways and beyond.

With the increasing worldwide trend in population migration into urban centers, we are beginning to see the emergence of the kinds of mega-cities which were once the stuff of science fiction. It is clear to most urban planners and developers that accommodating the needs of the tens of millions of inhabitants of those megalopolises in an orderly and uninterrupted manner will require the seamless integration of and real-time monitoring and response services for public utilities and transportation systems. Part speculative look into the future of the world's urban centers, part technical blueprint, this visionary book helps lay the groundwork for the communication networks and services on which tomorrow's "smart cities" will run. Written by a uniquely well-qualified author team, this book provides detailed insights into the technical requirements for the wireless sensor and actuator networks required to make smart cities a reality.

For decades, people have searched for ways to harvest energy from natural sources. Lately, a desire to address the issue of global warming and climate change has popularized solar or photovoltaic technology, while piezoelectric technology is being developed to power handheld devices without batteries, and thermoelectric technology is being explored to convert wasted heat, such as in automobile engine combustion, into electricity. Featuring contributions from international researchers in both academics and industry, Energy Harvesting with Functional Materials and Microsystems explains the growing field of energy harvesting from a materials and device perspective, with resulting technologies capable of enabling low-power implantable sensors or a large-scale electrical grid. In addition to the design, implementation, and components of energy-efficient electronics, the book covers current advances in energy-harvesting materials and technology, including: High-efficiency solar technologies with lower cost than existing silicon-based photovoltaics Novel piezoelectric technologies utilizing mechanical energy from vibrations and pressure The ability to harness thermal energy and temperature profiles with thermoelectric materials Whether you're a practicing engineer, academician, graduate student, or entrepreneur looking to invest in energy-harvesting devices, this book is your complete guide to fundamental materials and applied microsystems for energy harvesting.

The idea of using robots in our daily lives was an inspiring research in the field of robotics during the last decades. Service robots can be found nowadays in warehouses, hospitals, retail stores, city streets, and industrial parks or as personal assistants. The effort on the development of these robots is confirmed by the amount of money invested in projects and companies, the creation on new start-ups worldwide, and, not less important, the quantity and quality of the manuscripts published in journals and conferences worldwide. This book is an outcome of research done by several researchers who have highly contributed to the field of service robots. The main goal of this book is to present the recent advances in the field of service robots.

The book constitutes the refereed proceedings of the 17th European Conference on Genetic Programming, Euro GP 2014, held in Grenada, Spain, in April 2014 co-located with the Evo*2014 events, Evo BIO, Evo COP, Evo MUSART and Evo Applications. The 15 revised full papers presented together with 5 poster papers were carefully reviewed and selected form 40 submissions. The wide range of topics in this volume reflects the current state of research in the field. Thus, we see topics as diverse as search-based software engineering, image analysis, dynamical systems, evolutionary robotics and operational research to the foundations of search as characterized through semantic variation operators.

This book provides a comprehensive study of the research outcomes on memristor emulator circuits and includes various analog applications as examples. The authors describe in detail how to design different types of memristor emulators, using active and passive components for different applications. Most of the emulator circuits presented in this book are new and are the outcomes of the authors' recent research. Coverage also includes the latest technological advances in memristor and memristor emulators. Readers will benefit from an understanding of the fundamental concepts and potential applications related to memristors, since these emulator circuits can be built in the laboratory using inexpensive, off-the-shelf circuit components. Introduces readers to memristor emulator circuit design, using regular off-the-shelf circuit components; Describes analog applications of memristors that can be verified by the proposed emulator circuits; Includes a brief overview of the updated mathematical models of the memristor device, with different material implementations; Equips readers to understand the three fingerprints of memristors, which make them unique, compared to the three known, passive elements (resistor, inductor and capacitor).

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