

The 20th Anniversary of the *IEEE Transactions on Pattern Analysis and Machine Intelligence*

Kevin Bowyer, Pat Flynn, and Rangachar Kasturi

1 INTRODUCTION

>Welcome to the "20th Anniversary Special Issue" of the *IEEE Transactions on Pattern Analysis and Machine Intelligence*. Over the past 20 years, there have been many important advances in the areas of interest to the PAMI community. In this issue, we are pleased to be able to present a collection of five survey papers that reflect on developments in selected areas. These five papers, of course, do not address all areas of interest to the PAMI community. In fact, we hope to have additional surveys appear in a future issue. TPAMI editorial policy strongly encourages authors of what might be termed "value added" survey papers in all major areas of interest to the PAMI community. By "value added" we mean to indicate a paper that gives the reader some value beyond that of a simple annotated bibliography or a plain survey. We look for an additional level of insight into what works and what doesn't, why, and what the open issues are.

2 BRIEF HISTORY OF TPAMI

The *IEEE Transactions on Pattern Analysis and Machine Intelligence* (TPAMI) was started in January 1979 as a quarterly publication with an annual page budget of 332 pages under the leadership of King Sun Fu. The Sun Fu, then president of the IEEE Computer Society, wrote in the inaugural issue, "The first paper in this area published in *IEEE Transactions on Computers* dates back over two decades... the Computer Society has sponsored or participated in several conferences on pattern analysis and machine intelligence... the Computer Society is also an active member of the International Association for Pattern Recognition... There has been a lack of publications... for papers in this broad area of interest. The publication of this quarterly is intended to meet such a demand." TPAMI quickly became a bimonthly in 1980 and the subscriptions jumped from 2,000 to 7,000 in the first three years. It reached a peak of over 10,000 in the late 1980s before settling down to the current level of approximately 7,500. TPAMI became a monthly in 1989 and reached its present size of 1,436 editorial pages in 1998.

Editorial direction and leadership for TPAMI has been provided by King Sun Fu (1979-1987), Theo Pavlidis (1987-1990), Steven S. Yarnoz (1990-1993), and K. Jain (1993-1994), and Rangachar Kasturi (1995-1998) during its first two decades. They were assisted by many outstanding in-

dividuals in various capacities such as advisory editor, associate editor, guest editor, and production editor. A list of associate editors is included at the end of this editorial.

Topics of papers published in TPAMI, as well as its declared scope, have gradually changed over the years to reflect the changes in research trends, as well as the introduction of other IEEE publications covering topics that were once covered in PAMI. The first issues of TPAMI listed topics such as speech analysis, natural language analysis, and inference systems in its scope. Soon, TPAMI established itself as the premier journal for papers in pattern recognition and computer vision. The early years of TPAMI also saw the debate concerning the imbalance between the PA and ML components. This continued for quite some time until TPAMI became established as the leading journal of our field.

One of the constant concerns for editors of TPAMI during the first two decades was the review/revision/publication cycle time. This is reflected by comments such as the following—"most common suggestion was that I should speed up the editorial process" in an editorial by Pavlidis in September 1982, "we will be working to expand the editorial board... to reduce the time" in an editorial by Yarnoz in November 1986, "One of the serious concerns... are delays in the review... and the publication delays once a manuscript has been accepted" in an editorial by Jain in February 1991, and "I am concerned [about] our publication backlog" in an editorial by Kasturi in February 1996. We are fortunate that, as a result of many actions taken by the past editors and the cooperation of the entire PAMI community, this problem has finally been solved. In recent months, we have had papers appear in print in as short as six months from the time of submission (see additional comments below).

3 THIS 20TH ANNIVERSARY ISSUE

The *IEEE Transactions on PAMI* has actually just completed its 21st year of publication. The concept for this special issue began before TPAMI had completed its 20th year, under Rangachar Kasturi's term as EIC. The natural constraints of editorial planning, authors' creative work, review, and production led to the first group of survey papers appearing in this issue. Due to constraints of scheduling and length, several additional survey papers recognizing this occasion should appear in another issue in the near future.

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**Bhatt, Chintan,Kumar, Neeraj,Bashir,
Ali Kashif,Alazab, Mamoun**

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Electronic Design Automation for IC Implementation, Circuit Design, and Process Technology Luciano Lavagno,Igor L. Markov,Grant Martin,Louis K. Scheffer,2017-02-03 The second of two volumes in the Electronic Design Automation for Integrated Circuits Handbook Second Edition Electronic Design Automation for IC Implementation Circuit Design and Process Technology thoroughly examines real time logic RTL to GDSII a file format used to transfer data of semiconductor physical layout design flow analog mixed signal design physical verification and technology computer aided design TCAD Chapters contributed by leading experts authoritatively discuss design for manufacturability DFM at the nanoscale power supply network design and analysis design modeling and much more New to This Edition Major updates appearing in the initial phases of the design flow where the level of abstraction keeps rising to support more functionality with lower non recurring engineering NRE costs Significant revisions reflected in the final phases of the design flow where the complexity due to smaller and smaller geometries is compounded by the slow progress of shorter wavelength lithography New coverage of cutting edge applications and approaches realized in the decade since publication of the previous edition these are illustrated by new chapters on 3D circuit integration and clock design Offering improved depth and modernity Electronic Design Automation for IC Implementation Circuit Design and Process Technology provides a valuable state of the art reference for electronic design automation EDA students researchers and professionals *Design and Implementation of Sigma Delta Modulators ($\Sigma\Delta M$) for Class D Audio Amplifiers using Differential Pairs* Nuno Pereira,Nuno Paulino,2014-12-01 This book focuses on the design of a 3rd Order CT M where the integrator stages of the filter are implemented with Bipolar Junction Transistors BJT differential pairs These circuits are fully analyzed and the design method is carefully explained The design method is validated through experimental measurements of several prototype circuits **Advancing Embedded Systems and Real-Time Communications with Emerging Technologies** Virtanen, Seppo,2014-04-30 Embedded systems and real time computing can be useful tools for a variety of applications Further research developments in this field can assist in promoting the future development of these technologies for various applications Advancing Embedded Systems and Real Time Communications with Emerging Technologies discusses embedded systems communication system engineering and real time systems in an integrated manner This research book includes advancements in the fields of computer science computer engineering and telecommunication engineering in regard to how they are used in embedded and real time systems for communications purposes With its practical and theoretical research this book is an essential reference for academicians students researchers practitioners and IT professionals *Applied Mechanics Reviews* ,1974 **Design of a Non-isolated Single Phase Online UPS Topology with Parallel Battery Bank for Low Power Applications** Muhammad Aamir,2018-07-14 This book presents a new topology of the non isolated online uninterruptible power supply UPS system consisting of 3 components bridgeless boost rectifier battery charger discharger and an inverter The online UPS

system is considered to be the most preferable UPS due to its high level of power quality and proven reliability against all types of line disturbances and power outages The new battery charger discharger reduces the battery bank voltage which improves performance and reliability while a new control method for the inverter regulates the output voltage for both linear and nonlinear loads The proposed USP system shows an efficiency of 94% during battery mode and 92% during the normal mode of operation **Applied Cryptography for Cyber Security and Defense: Information Encryption and Cyphering**

Nemati, Hamid R.,Yang, Li,2010-08-31 Applied Cryptography for Cyber Security and Defense Information Encryption and Cyphering applies the principles of cryptographic systems to real world scenarios explaining how cryptography can protect businesses information and ensure privacy for their networks and databases It delves into the specific security requirements within various emerging application areas and discusses procedures for engineering cryptography into system design and implementation Implementing Data Analytics and Architectures for Next Generation Wireless Communications Bhatt, Chintan,Kumar, Neeraj,Bashir, Ali Kashif,Alazab, Mamoun,2021-08-13 Wireless communication is continuously evolving to improve and be a part of our daily communication This leads to improved quality of services and applications supported by networking technologies We are now able to use LTE LTE Advanced and other emerging technologies due to the enormous efforts that are made to improve the quality of service in cellular networks As the future of networking is uncertain the use of deep learning and big data analytics is a point of focus as it can work in many capacities at a variety of levels for wireless communications Implementing Data Analytics and Architectures for Next Generation Wireless Communications addresses the existing and emerging theoretical and practical challenges in the design development and implementation of big data algorithms protocols architectures and applications for next generation wireless communications and their applications in smart cities The chapters of this book bring together academics and industrial practitioners to exchange discuss and implement the latest innovations and applications of data analytics in advanced networks Specific topics covered include key encryption techniques smart home appliances fog communication networks and security in the internet of things This book is valuable for technologists data analysts networking experts practitioners researchers academicians and students Mobile Ad Hoc Robots and Wireless Robotic Systems: Design and Implementation Santos, Raul Aquino,2012-12-31 The emergence of wireless robotic systems has provided new perspectives on technology With the combination of disciplines such as robotic systems ad hoc networking telecommunications and more mobile ad hoc robots have proven essential in aiding future possibilities of technology Mobile Ad Hoc Robots and Wireless Robotic Systems Design and Implementation aims to introduce robotic theories wireless technologies and routing applications involved in the development of mobile ad hoc robots This reference source brings together topics on the communication and control of network ad hoc robots describing how they work together to carry out coordinated functions FPGA-based Implementation of Signal Processing Systems Roger Woods,John McAllister,Gaye Lightbody,Ying Yi,2008-10-13 Field programmable gate arrays FPGAs are an increasingly

popular technology for implementing digital signal processing DSP systems By allowing designers to create circuit architectures developed for the specific applications high levels of performance can be achieved for many DSP applications providing considerable improvements over conventional microprocessor and dedicated DSP processor solutions The book addresses the key issue in this process specifically the methods and tools needed for the design optimization and implementation of DSP systems in programmable FPGA hardware It presents a review of the leading edge techniques in this field analyzing advanced DSP based design flows for both signal flow graph SFG based and dataflow based implementation system on chip SoC aspects and future trends and challenges for FPGAs The automation of the techniques for component architectural synthesis computational models and the reduction of energy consumption to help improve FPGA performance are given in detail Written from a system level design perspective and with a DSP focus the authors present many practical application examples of complex DSP implementation involving high performance computing e g matrix operations such as matrix multiplication high speed filtering including finite impulse response FIR filters and wave digital filters WDFs adaptive filtering e g recursive least squares RLS filtering transforms such as the fast Fourier transform FFT FPGA based Implementation of Signal Processing Systems is an important reference for practising engineers and researchers working on the design and development of DSP systems for radio telecommunication information audio visual and security applications Senior level electrical and computer engineering graduates taking courses in signal processing or digital signal processing shall also find this volume of interest

Applied Intelligence in Human-Computer Interaction Sulabh Bansal,Prakash Chandra Sharma,Abhishek Sharma,Jieh-Ren Chang,2023-08-15 The text comprehensively discusses the fundamental aspects of human computer interaction and applications of artificial intelligence in diverse areas including disaster management smart infrastructures and healthcare It employs a solution based approach in which recent methods and algorithms are used for identifying solutions to real life problems This book Discusses the application of artificial intelligence in the areas of user interface development computing power analysis and data management Uses recent methods algorithms to present solution based approaches to real life problems in different sectors Showcases the applications of artificial intelligence and automation techniques to respond to disaster situations Covers important topics such as smart intelligence learning interactive multimedia systems and modern communication systems Highlights the importance of artificial intelligence for smart industrial automation and systems intelligence The book elaborates on the application of artificial intelligence in user interface development computing power analysis and data management It explores the use of human computer interaction for intelligence signal and image processing techniques The text covers important concepts such as modern communication systems smart industrial automation interactive multimedia systems and machine learning interface for the internet of things It will serve as an ideal text for senior undergraduates and graduate students in the fields of electrical engineering electronics and communication engineering computer engineering and information technology

Applied Cryptography

and Network Security Jianying Zhou, Moti Yung, Yongfei Han, 2003-10-24 The 1st International Conference on Applied Cryptography and Network Security ACNS 2003 was sponsored and organized by ICISA International Communications and Information Security Association in cooperation with MiAn Pte Ltd and the Kunming government. It was held in Kunming, China, in October 2003. The conference proceedings were published as Volume 2846 of the Lecture Notes in Computer Science LNCS series of Springer Verlag. The conference received 191 submissions from 24 countries and regions; 32 of these papers were accepted, representing 15 countries and regions, with an acceptance rate of 16.75%. In this volume, you will find the revised versions of the accepted papers that were presented at the conference. In addition to the main track of presentations of accepted papers, an additional track was held during the conference where presentations of an industrial and technical nature were given. These presentations were also carefully selected from a large set of presentation proposals. This new international conference series is the result of the vision of Dr. Yongfei Han. The conference concentrates on current developments that advance the state of applied cryptography and its application to systems and network security. The goal is to represent both academic research works and developments in industrial and technical frontiers. We thank Dr. Han for initiating this conference and for serving as its General Chair.

Electronic Government Strategies and Implementation Huang, Wayne, Siau, Keng, Wei, Kwok Kee, 2004-09-30 Digital government is a new frontier of the development of electronic commerce. *Electronic Government Strategies and Implementation* is a timely piece to address the issues involved in strategically implementing digital government, covering the various aspects of digital government, strategic issues, and implementations from the perspectives of both developed and developing countries. This book combines e-government implementation experiences from both developed and developing countries and is useful to researchers and practitioners in the area, as well as instructors teaching courses related to digital government and/or electronic commerce.

Fundamental Papers in Wavelet Theory Christopher Heil, David F. Walnut, 2006-07-23 This volume traces the prehistory and initial development of wavelet theory, a discipline that has had a profound impact on mathematics, physics, and engineering. It contains the seminal papers that presented the ideas from which wavelet theory developed, as well as those papers that developed the theory.

Restructured Electric Power Systems Xiao-Ping Zhang, 2010-10-15 The latest practical applications of electricity market equilibrium models in analyzing electricity markets. Electricity market deregulation is driving the power energy production from a monopolistic structure into a competitive market environment. The development of electricity markets has necessitated the need to analyze market behavior and power. *Restructured Electric Power Systems* reviews the latest developments in electricity market equilibrium models and discusses the application of such models in the practical analysis and assessment of electricity markets. Drawing upon the extensive involvement in the research and industrial development of the leading experts in the subject area, the book starts by explaining the current developments of electrical power systems towards smart grids and then relates the operation and control technologies to the aspects in electricity markets. It explores

The problems of electricity market behavior and market power Mathematical programs with equilibrium constraints MPEC and equilibrium problems with equilibrium constraints EPEC Tools and techniques for solving the electricity market equilibrium problems Various electricity market equilibrium models State of the art techniques for computing the electricity market equilibrium problems The application of electricity market equilibrium models in assessing the economic benefits of transmission expansions for market environments forward and spot markets short term power system security and analysis of reactive power impact Also featured are computational resources to allow readers to develop algorithms on their own as well as future research directions in modeling and computational techniques in electricity market analysis Restructured Electric Power Systems is an invaluable reference for electrical engineers and power system economists from power utilities and for professors postgraduate students and undergraduate students in electrical power engineering as well as those responsible for the design engineering research and development of competitive electricity markets and electricity market policy

Challenges and Applications for Implementing Machine Learning in Computer Vision Kashyap, Ramgopal,Kumar, A.V. Senthil,2019-10-04 Machine learning allows for non conventional and productive answers for issues within various fields including problems related to visually perceptive computers Applying these strategies and algorithms to the area of computer vision allows for higher achievement in tasks such as spatial recognition big data collection and image processing There is a need for research that seeks to understand the development and efficiency of current methods that enable machines to see Challenges and Applications for Implementing Machine Learning in Computer Vision is a collection of innovative research that combines theory and practice on adopting the latest deep learning advancements for machines capable of visual processing Highlighting a wide range of topics such as video segmentation object recognition and 3D modelling this publication is ideally designed for computer scientists medical professionals computer engineers information technology practitioners industry experts scholars researchers and students seeking current research on the utilization of evolving computer vision techniques *Implementation and Application of Functional Languages* Clemens Grelck,2005-05-30 This book constitutes the thoroughly refereed post proceedings of the 16th International Workshop on Implementation and Applications of Functional Languages IFL 2004 held in L beck Germany in September 2004 The 13 revised full papers presented went through two rounds of reviewing and improvement and were selected from an initial total of 40 workshop presentations The papers address current issues on functional and function based languages ranging from theoretical and methodological topics to implementation issues and applications in various contexts 5G Internet of Things and Changing Standards for Computing and Electronic Systems Nwajana, Augustine O.,2022-06-03 Internet of things networks have changed the standard of how computing and electronic systems are interconnected Computing and electronic devices and systems with the help of 5G technology can now be seamlessly linked in a way that is rapidly turning the globe into a digital world Smart cities and the internet of things are here to stay but not without some challenges a thorough review of the

opportunities difficulties and benefits of 5G internet of things is necessary for it to be successfully utilized and implemented 5G Internet of Things and Changing Standards for Computing and Electronic Systems examines modern computers and electronics and how they provide seamless connectivity due to the development of internet of things technology Moreover this reference covers various technologies and their roles and impacts in the future of smart cities Covering a range of topics such as machine learning and renewable energy systems this reference work is ideal for scientists engineers policymakers researchers practitioners academicians scholars instructors and students **Applied Digital Control** J. R.

Leigh,2006-06-23 An essential core text this volume develops theoretical foundations and explains how control systems work in real industrial situations Several case histories assist students in visualizing applications 1992 edition

Implementation and Applications of DSL Technology Philip Golden,Hervé Dedieu,Krista S. Jacobsen,2007-10-26 The digital subscriber line DSL industry is expanding rapidly and a technology once thought to be only transitional will soon clear 100 billion in total annual service revenue From the world s leading DSL experts Implementation and Application of DSL Technologies builds upon the theory presented in Fundamentals of DSL Technologies **Web Portal Design,**

Implementation, Integration, and Optimization Polgar, Jana,Adamson, Greg,2013-01-31 Web Portal Design Implementation Integration and Optimization discusses the challenges faced in building web services and integrating applications in order to reach the successful benefits web portals bring to an organization This collection of research aims to be a resource for researchers developers and industry practitioners involved in the technological business organizational and social dimensions of web portals

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