

# 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 then provided by King Sun Fu (1979-1987), Theo Pavlidis (1987-1996), Steven S. Yarnoz (1986-1990), and K. Jain (1991-1994), and Rangachar Kasturi (1995-1996) 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 MI 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 recently 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 PCC. 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.

# Paper Ieee Transactions On Wcdma

**Erik Dahlman, Stefan Parkvall, Johan  
Skold, Per Beming**



## **Paper Ieee Transactions On Wcdma:**

**Computer Networks and Information Technologies** Vinu V Das,Janahanlal Stephen,Yogesh Chaba,2011-03-07 This book constitutes the refereed proceedings of the Second International Conference on Advances in Communication Network and Computing CNC 2011 held in Bangalore India in March 2011 The 41 revised full papers presented together with 50 short papers and 39 poster papers were carefully reviewed and selected for inclusion in the book The papers feature current research in the field of Information Technology Networks Computational Engineering Computer and Telecommunication Technology ranging from theoretical and methodological issues to advanced applications

**VLSI Modulation Circuits - Signal Processing, Data Conversion, and Power Management** Hongjiang Song,2014-05-24 This is a textbook developed for a VLSI circuit design course series EEE598 that the author has been offering in the Schools of Engineering at Arizona State University The materials are organized into eighteen special topics covering the principles the circuit design techniques and the applications of VLSI modulation in signal processing data conversion power amplification and power management

**Modern Telemetry** Ondrej Krejcar,2011-10-05 Telemetry is based on knowledge of various disciplines like Electronics Measurement Control and Communication along with their combination This fact leads to a need of studying and understanding of these principles before the usage of Telemetry on selected problem solving Spending time is however many times returned in form of obtained data or knowledge which telemetry system can provide Usage of telemetry can be found in many areas from military through biomedical to real medical applications Modern way to create a wireless sensors remotely connected to central system with artificial intelligence provide many new sometimes unusual ways to get a knowledge about remote objects behaviour This book is intended to present some new up to date accesses to telemetry problems solving by use of new sensors conceptions new wireless transfer or communication techniques data collection or processing techniques as well as several real use case scenarios describing model examples Most of book chapters deals with many real cases of telemetry issues which can be used as a cookbooks for your own telemetry related problems

**Signal Processing for Wireless Communication Systems** H. Vincent Poor,Lang Tong,2006-01-19 Signal Processing for Wireless Communication Systems brings together in one place important contributions and up to date research results in this fast moving area The Contributors to this work were selected from leading researchers and practitioners in this field The book s 18 chapters are divided into three areas systems Networks and Implementation Issues Channel Estimation and Equalization and Multiuser Detection The Work originally published as Volume 30 Numbers 1 3 of the Journal of VLSI Signal Processing Systems for Signal Image and Video Technology will be valuable to anyone working or researching in the field of wireless communication systems It serves as an excellent reference providing insight into some of the most challenging issues being examined today

**Digital-IF SiGe BiCMOS Transmitter IC for 3G WCDMA Handset Application** Vincent Wing-Ching Leung,2004

**Advances in Monolithic Microwave Integrated Circuits for Wireless Systems: Modeling and Design**

**Technologies** Marzuki, Arjuna, Rahim, Ahmad Ismat Abdul, Loulou, Mourad, 2011-08-31 Monolithic Microwave Integrated Circuit MMIC is an electronic device that is widely used in all high frequency wireless systems. In developing MMIC as a product, understanding analysis and design techniques, modeling, measurement methodology, and current trends are essential. *Advances in Monolithic Microwave Integrated Circuits for Wireless Systems Modeling and Design Technologies* is a central source of knowledge on MMIC development, containing research on theory, design, and practical approaches to integrated circuit devices. This book is of interest to researchers in industry and academia working in the areas of circuit design, integrated circuits, and RF and microwave, as well as anyone with an interest in monolithic wireless device development.

**CMOS Low Noise Amplifiers for Single and Multiband Applications: A Comprehensive Design Approach** Norlaili Mohd Noh, Farshad Eshghabadi, Arjuna Marzuki, 2023-10-11 This book provides comprehensive knowledge aimed at practicing integrated circuit design engineer or researcher to learn and design a low noise amplifier (LNA) for single and multiband applications. The content is structured in a way so that even a beginner can follow the design method easily. This book features the following characteristics: different types of LNA designs with key building blocks are discussed and detailed analysis is given for each LNA design, which covers from the fundamental and principal knowledge to the justification of the design approach. Detailed design approaches are using 180 nm and 130nm CMOS technologies purposely presented in this manner to give exposure to the design of LNA under different technologies. The LNAs in this book are designed for GSM, WCDMA, and WLAN standards, but the same method can be used for other frequencies of operation. Comprehensive analyses on the extreme or corner condition effects are highlighted. Besides detailed derivation of equations relating to the parameters of the LNA, performance metrics help LNA designers in understanding how the performance metrics of the LNA can be optimized to meet the desired specification. Electromagnetic analyses using Sonnet, an electromagnetic tool able to replace the conventional post layout simulation with resistance and capacitance parasitic extraction for more accurate frequency performance prediction, are presented. The electromagnetic method is proposed to be used in the LNA design as it can accurately predict the LNA's performance before tape out for first pass fabrication. MATLAB codes are provided to generate important S parameters and noise figure values.

**Analog-Baseband Architectures and Circuits for Multistandard and Low-Voltage Wireless Transceivers** Pui-In Mak, Ben U Seng Pan, Rui Paulo Martins, 2007-09-07 This book presents architectural and circuit techniques for wireless transceivers to achieve multistandard and low voltage compliance. It provides an up to date survey and detailed study of the state of the art transceivers for modern single and multi purpose wireless communication systems. The book includes comprehensive analysis and design of multimode reconfigurable receivers and transmitters for an efficient multistandard compliance.

*Deep Learning Applications for Cyber Security* Mamoun Alazab, Mingjian Tang, 2019-08-14 Cybercrime remains a growing challenge in terms of security and privacy practices. Working together, deep learning and cyber security experts have recently made significant advances in the fields of

intrusion detection malicious code analysis and forensic identification This book addresses questions of how deep learning methods can be used to advance cyber security objectives including detection modeling monitoring and analysis of as well as defense against various threats to sensitive data and security systems Filling an important gap between deep learning and cyber security communities it discusses topics covering a wide range of modern and practical deep learning techniques frameworks and development tools to enable readers to engage with the cutting edge research across various aspects of cyber security The book focuses on mature and proven techniques and provides ample examples to help readers grasp the key points Wideband, Multiband, and Smart Reconfigurable Antennas for Modern Wireless Communications Matin,

Mohammad A.,2015-08-26 Modern society thrives on communication that is instant and available at all times a constant exchange of information that encompasses everything from video streaming to GPS navigation Experts even suggest that in the near future everything from our cars to our kitchen appliances will be connected to the internet a feat that would not be possible without advanced wireless technology Wideband Multiband and Smart Reconfigurable Antennas for Modern Wireless Communications showcases current trends and novel approaches in the design and analysis of the antennas that make wireless applications possible while also identifying unique integration opportunities for antennas and wireless applications to work together By featuring both theoretical and experimental approaches to integration this book highlights specific design issues to assist a wide range of readers including students researchers academics and industry practitioners This publication features chapters on a broad scope of topics including algorithms and antenna optimization wireless infrastructure development wireless applications of intelligent algorithms antenna architecture and antenna reconfiguration techniques Wireless Radio-Frequency Standards and System Design: Advanced Techniques Cornetta, Gianluca,Santos, David J.,Vazquez, Jose Manuel,2012-01-31 Radio frequency RF integrated circuits in CMOS technology are gaining increasing popularity in the commercial world and CMOS technology has become the dominant technology for applications such as GPS receivers GSM cellular transceivers wireless LAN and wireless short range personal area networks based on IEEE 802 15 1 Bluetooth or IEEE 802 15 4 ZigBee standards Furthermore the increasing interest in wireless technologies and the widespread of wireless communications has prompted an ever increasing demand for radio frequency transceivers Wireless Radio Frequency Standards and System Design Advanced Techniques provides perspectives on radio frequency circuit and systems design covering recent topics and developments in the RF area Exploring topics such as LNA linearization behavioral modeling and co simulation of analog and mixed signal complex blocks for RF applications integrated passive devices for RF ICs and baseband design techniques and wireless standards this is a comprehensive reference for students as well as practicing professionals **Bandwidth and Efficiency Enhancement in Radio Frequency Power Amplifiers for Wireless Transmitters** Karun Rawat,Patrick Roblin,Shiban Kishen Koul,2020-03-05 This book focuses on broadband power amplifier design for wireless communication Nonlinear model embedding is described as a powerful tool for designing

broadband continuous Class J and continuous class F power amplifiers The authors also discuss various techniques for extending bandwidth of load modulation based power amplifiers such as Doherty power amplifier and Chireix outphasing amplifiers The book also covers recent trends on digital as well as analog techniques to enhance bandwidth and linearity in wireless transmitters Presents latest trends in designing broadband power amplifiers Covers latest techniques for using nonlinear model embedding in designing power amplifiers based on waveform engineering Describes the latest techniques for extending bandwidth of load modulation based power amplifiers such as Doherty power amplifier and Chireix outphasing amplifiers Includes coverage of hybrid analog digital predistortion as wideband solution for wireless transmitters Discusses recent trends on on chip power amplifier design with GaN GaAs MMICs for high frequency applications **Microwave Circuit Design Using Linear and Nonlinear Techniques** George D. Vendelin, Anthony M. Pavio, Ulrich L. Rohde, 2005-10-03 The ultimate handbook on microwave circuit design with CAD Full of tips and insights from seasoned industry veterans Microwave Circuit Design offers practical proven advice on improving the design quality of microwave passive and active circuits while cutting costs and time Covering all levels of microwave circuit design from the elementary to the very advanced the book systematically presents computer aided methods for linear and nonlinear designs used in the design and manufacture of microwave amplifiers oscillators and mixers Using the newest CAD tools the book shows how to design transistor and diode circuits and also details CAD's usefulness in microwave integrated circuit MIC and monolithic microwave integrated circuit MMIC technology Applications of nonlinear SPICE programs now available for microwave CAD are described State of the art coverage includes microwave transistors HEMTs MODFETs MESFETs HBTs and more high power amplifier design oscillator design including feedback topologies phase noise and examples and more The techniques presented are illustrated with several MMIC designs including a wideband amplifier a low noise amplifier and an MMIC mixer This unique one stop handbook also features a major case study of an actual anticollision radar transceiver which is compared in detail against CAD predictions examples of actual circuit designs with photographs of completed circuits and tables of design formulae **3G Evolution** Erik Dahlman, Stefan Parkvall, Johan Skold, Per Beming, 2010-07-28 Reflecting the recent completion of LTE's specification the new edition of this bestseller has been fully updated to provide a complete picture of the LTE system The latest LTE standards are included on the radio interface architecture the physical layer access procedures MBMS together with three brand new chapters on LTE Transmission Procedures Flexible Bandwidth in LTE and LTE evolution into IMT Advanced Key technologies presented include multi carrier transmission advanced single carrier transmission advanced receivers OFDM MIMO and adaptive antenna solutions advanced radio resource management and protocols and different radio network architectures Their role and use in the context of mobile broadband access in general is explained Both a high level overview and more detailed step by step explanations of HSPA and LTE implementation are given An overview of other related systems such as TD SCDMA CDMA2000 and WiMAX is also provided The new edition has

up to date coverage of the recently published LTE Release 8 radio access standard giving the reader insight into the ongoing and future process of LTE and LTE Advanced standardisation Coverage on LTE in this edition includes total of 270 pages on LTE Easy to access overview of the LTE protocol layers Complete description of LTE physical layer including reference signals control signalling multi antenna transmission schemes Covers both FDD and TDD their fundamental difference and their impact on the LTE design Detailed description of access procedures including cell search random access broadcast of system information Transmission procedures including retransmission protocols scheduling uplink power control Evolution towards IMT Advanced 4G Reading a specification requires some effort After reading the spec you would know WHAT to transmit but not WHY and HOW This is where our book becomes important Not only does it provide an easy to read description of the signals procedures and mechanisms in LTE it also tells you WHY a certain signal channel or procedure is present and HOW it is used After reading the book you will have a good understanding on how LTE works and why it is designed the way it is the authors The authors of the book all work at Ericsson Research and are deeply involved in 3G development and standardisation since the early days of 3G research They are leading experts in the field and are today still actively contributing to the standardisation of both HSPA and LTE within 3GPP This includes details of the standards and technologies 160 new pages LTE radio interface architecture LTE physical layer and LTE access procedures Includes details of the standards and technologies 160 new pages LTE radio interface architecture LTE physical layer and LTE access procedures Contains three brand new chapters on LTE Transmission Procedures Flexible Bandwidth and LTE Evolution and expanded details on the physical layer total LTE content is 270 pages Examines the latest developments in the evolution of LTE into IMT Advanced the next stage of 3G Evolution Gives clear explanations of the role of OFDM and MIMO technologies in HSPA and LTE Outlines the System Architecture Evolution SAE supporting LTE and HSPA evolution

**3G / SAE Bundle**

Erik Dahlman, Magnus Olsson, 2009-12-11 Combining information on the most important and related technologies in the mobile communications field this two book package gives the engineer a concise complete and authoritative introduction to LTE and SAE and The Evolved Packet Core Written by experts who played a leading role in the development of the standards this package gives insight into the how and why enabling the professional engineer to implement the technologies that are central to the mobile broadband revolution Includes details of the standards and technologies with 160 new pages LTE radio interface architecture LTE physical layer and LTE access procedures Contains three brand new chapters on LTE Transmission Procedures Flexible Bandwidth and LTE Evolution plus expanded details on the physical layer total LTE content is 270 pages Examines the latest developments in the evolution of LTE into IMT Advanced the next stage of 3G Evolution Gives clear explanations of the role of OFDM and MIMO technologies in HSPA and LTE Outlines the System Architecture Evolution SAE supporting LTE and HSPA evolution Up to date coverage of SAE including the latest standards development Easily accessible overview of the architecture and concepts defined by SAE Thorough description of the Evolved Packet Core

for LTE fixed and other wireless accesses Comprehensive explanation of SAE key concepts security and Quality of Service Covers potential service and operator scenarios including interworking with existing 3GPP and 3GPP2 systems Detailed walkthrough of network entities protocols and procedures Written by established experts in the SAE standardization process all of whom have extensive experience and understanding of its goals history and vision *Radio Frequency Integrated Circuits and Systems* Hooman Darabi,2020-03-12 Equips students with essential industry relevant knowledge through in depth explanations practical applications examples and exercises **High-efficiency and High-linearity SiGe BiCMOS Power Amplifiers for WCDMA Handset Applications** Junxiong Deng,2005 *Wireless Discrete-Time Receivers* Massoud Tohidian,Iman Madadi,Amir Bozorg,Robert Bogdan Staszewski,2022-05-19 A comprehensive guide to discrete time receivers from the basics to the future implications for RF circuits **Recent Trends in Wireless and Mobile Networks** Abdulkadir Özcan,Jan Zizka,Dhinaharan Nagamalai,2011-06-16 This book constitutes the refereed proceedings of the Third International Conference on Wireless Mobile Networks WiMo 2011 and of The Third International Conference on Computer Networks and Communications CoNeCo 2011 held in Ankara Turkey in June 2011 The 40 revised full papers presented were carefully reviewed and selected from 202 submissions *Performance Optimization Techniques in Analog, Mixed-Signal, and Radio-Frequency Circuit Design* Fakhfakh, Mourad,Tlelo-Cuautle, Esteban,Fino, Maria Helena,2014-10-31 Improving the performance of existing technologies has always been a focal practice in the development of computational systems However as circuitry is becoming more complex conventional techniques are becoming outdated and new research methodologies are being implemented by designers Performance Optimization Techniques in Analog Mixed Signal and Radio Frequency Circuit Design features recent advances in the engineering of integrated systems with prominence placed on methods for maximizing the functionality of these systems This book emphasizes prospective trends in the field and is an essential reference source for researchers practitioners engineers and technology designers interested in emerging research and techniques in the performance optimization of different circuit designs



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