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President's Message

"A University is not a Company"

"Autonomous Universities, finally free to decide" is what every European University desires and indeed a few have obtained such autonomy (in different flavors). For example, in Germany depending on the individual state of the country, Universities experience more or less freedom, in England Universities are free to decide on most issues (after a ranking of course) and in Austria all Universities became fully autonomous by law in 2004.

Autonomy means for example that the Universities are free to decide which profiles (research versus teaching, what research topics) they want to have, which persons they want to hire as professors, and of course how much they want those to pay for.

All in all, this sounds very good, hard to believe in the 21st century that this was not always so.

But Universities are not entirely free; there are some minor conditions, the small print in the contracts so to say. There are contracts with the government required, that regulate the contents of lectures, their amount, research directions, in short: a profile. Why exactly a profile is of utmost importance remains unclear though. For hundreds of years Universities are delivering general education rather than apprenticeships but now industry and many politicians like to convert Universities into schools as a preparation for the "real life". Everything needs to obtain a clear economy-based input-to-output relation: uneducated people walk in, smart people come out. In order to remain competitive, the curricula need to be adapted to the needs of industry. Modularization will help to form entirely new study subjects without additional cost, just by regrouping them. This all will happen so fast that students will never obtain a chance to end their subject they started with. In fact they will remain in a permanent state of curricula change.

Following the concept of "not for life but for school (now: for our firms) we learn", competences like learning aptitude, capacity for abstract thinking, and pursuit of knowledge are only marginal effects; they lose meaning in modern times when human beings are merely seeing as functional elements of an economical society.

On the other hand Universities are more and more requested to provide social skills, that is to make up in short time what family and schools have failed in during a much longer period. Parents and teachers probably did not find the time for it, university professors finally have to adjust this.

"Trust is good, control is better" is a well known proverb, allegedly by Lenin. To be precise he wrote "*Dowjerai, no prowjerai*", which means "trust but check afterwards", which

is indeed not the same. If a couple of hundred million Euros go to a university, you better check where the money is spent. This comes along with the question where our taxes go and whether the "high-paid" university professors really work. Although teaching and research always have been evaluated, in modern times this is by far not enough. It is important to measure exactly every "peep" of a professor so that it not only can be counted and an average-peep-per-day (APPD) can be computed but it can correctly be compared to reference peeps of other professors at other universities and even other countries. Needless to say that a University cannot measure such important issue by itself it needs help by a self installed outside contracting company. Eventually, Universities obtain their budget to this end, now they can spend it in the rightful way by paying more to questionable quality ensuring companies.

In short: Universities suffer of a disease called "Evaluaritis". A vaccination does not exist.

Above all there reigns the audit court of a country, telling Universities how many peeps they wasted after SAP told us how much every peep costs (CAPPD). Foresighted as an audit court is, they do not only consider money Universities obtained but also money Universities could and should have obtained, had they acted optimally in the past. It reminds you of your friendly neighbor advising you to sell your stocks only when they are on top.

Similar findings are in EU projects; see for example www.trust-researchers.eu/ to learn more about how to complain against it. The outcome of all this is predictable: Universities have too little money. Teachers as well as students go on strike (see Germany and Austria) and simply ask for more money.

This is very surprising to me indeed. If I look into SAP I can read where the money goes: evaluations cost money, administration cost money, all must be legal of course, that costs money too, and renting the University buildings from the government (as it happens for example in Austria) costs money as well. Sorry, but at the end there is simply nothing left for research and teaching. But this must have been the intention; otherwise why do we have all these University laws and conditions and additional checks and evaluations. More money will not help, as it needs to be administered even more.

If the money is not ending up at research, cui bono, who is it good for? From an economic point of view it has little use, for research and teaching it certainly is not being used for.

In my opinion, there is plenty of money for research and teaching, it just needs to be tied to its use. Such a University law would be a nice improvement for a change. True autonomy only comes with freedom. We are not lacking money, we are lacking freedom.

Markus Rupp
President

EURASIP AdCom Elections 2010

EURASIP is managed by the EURASIP Administrative Committee (AdCom, Board of Directors). There are seven AdCom members. The EURASIP President serves a two year term as Past President, following his/her presidency. All other AdCom members are elected by the EURASIP members, and serve four year terms. EURASIP AdCom elections are held every two years. The EURASIP Advisory Committee confirms the AdCom election results and appointments.

On December 31st, 2010, three current AdCom members are ending their four year term (Fulvio Gini, Bulent Sankur, Beatrice Pesquet-Popescu) as well as Marc Moonen as past president. Thus up to four new members for the AdCom have to be elected. Listed below are the biographies of the candidates that will appear on the 2010 election ballot.

An electronic procedure will be used to collect votes prior to the EURASIP General Assembly, which will be held during EUSIPCO 2010 at Aalborg, August 23–27. EURASIP members who have not voted electronically will receive a paper ballot at the EURASIP General Assembly. The results of the 2010 AdCom Elections will be announced at the General Assembly.

Electronic voting starts on June 1st and ends on August 20th. To cast their votes, EURASIP members are invited to visit www.eurasip.org/ and follow the respective link. When votes are properly registered, a confirmation email is sent to the address in the membership profile. Electronic voting takes place in a manner that preserves voter anonymity. Questions related to the voting procedure may be sent to voting@eurasip.org.

Markus Rupp
President

"Candidates Biographies"

Fulvio Gini received the Doctor Engineer (cum laude) and the Research Doctor degrees in electronic engineering from the University of Pisa, Italy, in 1990 and 1995 respectively. In 1993 he joined the Department of Ingegneria dell'Informazione of the University of Pisa, where he become Associate Professor in 2000 and he is Full Professor since 2006. From July 1996 through January 1997, he was a visiting researcher at the Department of Electrical Engineering, University of Virginia, Charlottesville. He is an Associate Editor for the IEEE Transactions on Aerospace and Electronic Systems and for the Elsevier Signal Processing journal. He has been AE for the Transactions on Signal Processing (2000–06) and a Member of the EURASIP JASP Editorial Board. He is the Editor-in-Chief of the Hindawi International Journal on Navigation and Observation (IJNO). He was co-recipient of the 2001 IEEE AES Society's Barry Carlton Award for Best Paper. He was recipient of the

2003 IEE Achievement Award for outstanding contribution in signal processing and of the 2003 IEEE AES Society Nathanson Award to the Young Engineer of the Year. He was a Member of the Signal Processing Theory and Methods (SPTM) Technical Committee (TC) of the IEEE Signal Processing Society and he is presently a Member of the Sensor Array and Multichannel (SAM) TC. He is a Member of the Administrative Committee of the EURASIP Society and the Award Chairman. He was the Technical co-Chairman of the 2006 EURASIP Signal and Image Processing Conference (EUSIPCO), Florence, Italy, September 2006, and the Technical co-Chairman of the 2008 Radar Conference, Rome, Italy, May 2008. He is the General co-Chair of the 2nd Workshop on Cognitive Information Processing (CIP2010) and of the forthcoming ICASSP2014, to be held in Florence in April 2014. He was the guest co-editor of the special section of the Journal of the IEEE SP Society on Special Topics in Signal Processing on "Adaptive Waveform Design for Agile Sensing and Communication" (2007), guest editor of the special section of the IEEE Signal Processing Magazine on "Knowledge Based Systems for Adaptive Radar Detection, Tracking and Classification" (2006), guest co-editor of the special issue of the EURASIP Signal Processing journal on "New trends and findings in antenna array processing for radar" (2004). He is co-editor and author of the Wiley book "Knowledge Based Radar Detection, Tracking and Classification" (2008). His research interests include modeling and statistical analysis of radar clutter data, non-Gaussian signal detection and estimation, parameter estimation and data extraction from multichannel interferometric SAR data. He authored or co-authored three book chapters, about 100 journal papers and more than 100 conference papers.

Aggelos Pikrakis was born in Herakleion, Crete, Greece in 1970. He acquired a degree in Computer Engineering and Informatics from the University of Patras, Greece and a Ph.D. degree in Computer Science from the University of Athens. His research interests are in the area of machine learning and signal processing for multimedia, with emphasis on audio and music. He has published several research papers in prestigious journals and conferences and has been an editorial board member of the EURASIP Journal of Advances in Signal Processing since 2008.

He has been a Lecturer with the Department of Informatics at the University of Piraeus, Greece, since 2007 and during the past ten years he is also a research fellow at the Department of Informatics, University of Athens, Greece.

Aggelos Pikrakis has been a volunteer for EURASIP since 2005 when he took over the role of nominated officer in the context of web content development and electronic registrations. During his service, he has been involved, both as a supervisor and developer, in various EURASIP projects aiming at enhancing the e-services and web infrastructure of the organization. He firmly believes that by means of volunteerism and devotion, EURASIP will keep growing and will have a prosperous future as a scientific organization.

Aggelos Pikrakis is currently living in Athens, Greece, with his wife and twin daughters.

Maria Paula Queluz received the B.S. and the M.S. degrees in Electrical and Computer Engineering from the Instituto Superior Tcnico (IST), Technical University of Lisbon, Portugal, in 1985 and 1989 respectively, and the PhD degree from the Catholic University of Louvain, Louvain-la-Neuve, Belgium, in 1996. Since 1985, she has been with the Department of Electrical and Computer Engineering, IST, where she is currently an Assistant Professor. She is also a research member at the Instituto de Telecomunicações, Lisbon, Portugal. She was the Portuguese representative to the project COST-206 and she has participated in the European projects RACE HAMLET, MANADIX, ACTS TALISMAN and IST B-BONE. She has a good experience in the field of Image and Video Communications with emphasis on coding, watermarking and quality evaluation. Due to her academic activities and interests and participation in national and international projects integrating various areas of Telecommunications, she has also a good knowledge in fields such as digital transmission and wireless communications. She has also been involved in several international conferences participating in the Technical and Organizing Committees, as a Session Chair, and as a Reviewer. (Home page: http://www.it.pt/person_detail_p.asp?ID=476)

Jean-Luc Dugelay received the Ph.D. degree in Computer Science in 1992 from the University of Rennes, France. Doctoral research was carried out, from 1989 to 1992, at the France Telecom Research Laboratory in Rennes (formerly CNET-CCETT and now Orange Labs). He then joined EURECOM (Sophia Antipolis), where he is currently a Professor in the Department of Multimedia Communications. His research interests are in the area of image processing for security, safety and forensics. He is an author or coauthor of more than 150 publications that have appeared as journal papers or proceeding articles, three book chapters, and three international patents. He gave several tutorials on digital watermarking (co-authored with F. Petitcolas from Microsoft Research), biometrics (co-authored with J.-C. Junqua from Panasonic Research) at major conferences. He has been an invited speaker and/or member of the program committee of several scientific conferences and workshops. He was technical co-chair and organizer of the 4th IEEE workshop on Multimedia Signal Processing, October 3-5 in Cannes, and co-organizer of the two workshops on Multimodal User Authentication (Santa Barbara, December 2003 & Toulouse 2006).

Jean-Luc Dugelay is a senior member of the IEEE Signal Processing Society, and served as associate editors for several journals (IEEE Trans. on IP, IEEE Trans. on MM, EURASIP JASP). He is co-author (with Florent Perronnin and Kenneth Rose, UC Santa Barbara) of a paper entitled "A probabilistic model of face mapping with local transformations and its application to person recognition" that received the IEEE ICIP 2003 Best Paper Award. He is the main editor of a new book entitled "3D Object Processing: Compression, Indexing and Watermarking" (Wiley, 2008). He is currently the Editor in Chief of the EURASIP Journal on Image and Video Processing (http://www.hindawi.com/journals/ivp/).

Andrea Tonello leads the Wireless and Power Line Communications Lab at the University of Udine, Italy. He received the Doctor of Engineering degree in electronics (cum laude) in 1996 and the Doctor of Research degree in telecommunications in 2002 from the University of Padova, Italy. From 1997 to 2002 he has been with Bell Labs-Lucent Technologies first as a Member of Technical Staff in Holmdel, NJ, then with the Advanced Wireless Technology Laboratory, Whippany, NJ, where he was promoted to Technical Manager and he was appointed Managing Director of Bell Labs Italy. He conducted research on wireless systems, he was responsible for fostering research initiatives with industrial and academic institutions and he was involved in the standardization of 2G and 3G cellular technology. On January 2003 he joined the University of Udine where he is currently an Aggregate Professor of wireless communications and telecommunication systems. He is active in promoting the internationalization of research and education programmes. He is a member of the EU Institutional Human Resources Strategy Group that aims at implementing the European charter for researchers and the code of conduct of the recruitment of researchers. Dr. Tonellos research interests are about communication theory, signal processing for communications, wireless and power line communications. He authored over 100 contributions among technical papers, patent and standard proposals. He has been involved in several national and European research projects, among which the EU FP5 project WIRENET for the development of an UWB PLC system, the EU FP6 project AGAVE about UWB localization and navigation systems, the EU FP7 OMEGA project about next generation in-home gigabit networks. He has been the recipient of the Bell-Labs Lucent Recognition of Excellence Award in 1999 for his work on enhanced receiver techniques, the EURASIP Best Journal Paper Award 2007 for the paper published in the EURASIP Journal on Advances in Signal Processing about UWB PLC systems, and co-recipient of an award and a recognition of merit in the competition of innovative business plans StartCup Udine in 2006 and 2007. He serves as an Associate Editor for the IEEE Transactions on Vehicular Technology. He has been elected Vice-chair of the IEEE Technical Committee on Power Line Communications for the term 2010–2012.

John S. Thompson received his BEng and PhD degrees from the University of Edinburgh in 1992 and 1996, respectively. From July 1995 to August 1999, he worked as a postdoctoral researcher at Edinburgh, funded by the UK Engineering and Physical Sciences Research Council (EPSRC) and Nortel Networks. In September 1999, he was appointed as a lecturer at the School of Engineering and Electronics at the University of Edinburgh. In October 2005, he was promoted to the position of reader, which is equivalent to Associate Professor in the USA. His research interests currently include signal processing algorithms for wireless systems, multihop wireless communications and energy efficient wireless communications systems. He has published 70 journal papers and 150 conference papers to date including several invited papers, book chapters and tutorial talks, as well as co-authoring an undergraduate textbook on digital signal processing. He has been involved

for over 10 years in editing journals with the Institution of Engineering and Technology (IET) in the UK and is the founding editor-in-chief of the IET Signal Processing journal, which started in 2007. He has also participated extensively in the Communications Society of the IEEE. He was a technical programme co-chair for the 2007 International Conference on Communications (ICC), which was held in Glasgow, Scotland. He is also currently a technical programme co-chair for the Globecom conference to be held in Miami in December 2010.

He is also currently the vice-chair for the Communications Society GITC committee which oversees the technical organisation of ICC and Globecom conferences. He regularly attends the Eurasip EUSIPCO conference and for Glasgow 2009 he organised a special session on "Efficient Implementation of Complex Algorithms."

Maciej Niedzwiecki was born in Poznan, Poland in 1953. He received the M.Sc. and Ph.D. degrees from the Gdansk University of Technology, Gdansk, Poland, and the Dr.Hab. (D.Sc.) degree from the Technical University of Warsaw, Warsaw, Poland, in 1977, 1981 and 1991, respectively.

He spent three years as a Research Fellow with the Department of Systems Engineering, Australian National University, 1986–1989. In 1990–1993 he served as a Vice Chairman of Technical Committee on Theory of the International Federation of Automatic Control (IFAC). He is currently Associate Editor for IEEE Transactions on Signal Processing, a member of the IFAC committees on Modeling, Identification and Signal Processing and on Large Scale Complex Systems, and a member of the Automatic Control and Robotics Committee of the Polish Academy of Sciences (PAN). He is the author of the book Identification of Time-varying Processes (Wiley, 2000).

He works as a Professor and Head of the Department of Automatic Control, Faculty of Electronics, Telecommunications and Computer Science, Gdansk University of Technology. His main areas of research interest include identification of nonstationary signals and systems, adaptive Filters, active sound and vibration control, and statistical signal processing.

Andreas Burg was born in Munich, Germany, in 1975. He received his Dipl.-Ing. degree in 2000 from the Swiss Federal Institute of Technology (ETH) Zurich, Zurich, Switzerland. He then joined the Integrated Systems Laboratory of ETH Zurich, from where he graduated with the Dr. sc. techn. degree in 2006. Mr. Burg received the "Willi Studer Award" and the ETH Medal for his diploma and his diploma thesis, respectively. He was also awarded an ETH Medal for his Ph.D. dissertation in 2006. In 1998, he worked at Siemens Semiconductor (i.e., Infineon), San Jose, CA. During his doctoral studies, he worked at Bell Labs Wireless Research for a total of one year. From 2006 to 2007, he held positions as postdoctoral researcher at the Integrated Systems Laboratory and at the Communication Technology Laboratory of the ETH Zurich. In 2007 he co-founded Ce-

lestrius, an ETH spinoff in the field of MIMO wireless communication, where he served as the Director for VLSI from 2007 to 2008. In 2008, Dr. Burg was awarded a Professorship from the Swiss National Science Foundation (SNF) on which joined the ETH Zurich in the rank of an Assistant Professor in January 2009. At ETH he is heading the Signal Processing Circuits and Systems Group (www.spcas.ee.ethz.ch) at the Integrated Systems Laboratory. His research interests and expertise are in the area of circuits and systems for telecommunications and in low-power, high-speed integrated circuits for digital signal processing. He serves as PhD Forum co-chair of the 2010 VLSI-SoC conference and he is on the technical program committee of the European Signal Processing Conference. He also regularly serves as a reviewer for various journals and conferences in the area of VLSI and communications.

Anthony (Tony) Fagan received his PhD in Electronic Engineering from University College Dublin (UCD) in 1978. He then spent two years working on advance modem design at Marconi Research laboratories in England. On his return to UCD in established a DSP research group. Through this group he has been responsible for establishing a strong signal processing industry in Ireland with many companies being founded by his research graduates, especially in the area of physical-layer communications design. Well over 100 research graduates have been produced by the group with Tony personally supervising 70 of these. Co-operation with industry has been a distinguishing feature of his academic career with much of his funding coming directly from these contacts. On a number of occasions, in order to expedite product development, he has temporarily taken direct charge of industrial signal processing design groups and given them their day-to-day direction while still tending to his academic duties in UCD. He is a director of Decawave, a pioneering fabless semiconductor company that designs ultrawideband communications devices with a built in ranging capability. He is also a co-founder and director of WirelessLab, a Centre of Excellence that provides a collaborative environment for Ireland's wireless industries. He is an associate professor and the Director of the Communications and Optoelectronics Research Centre at UCD. He is a member of the Editorial board of the Elsevier Journal Digital Signal Processing.

Three New EURASIP Fellows Elected

Since 2007 EURASIP has introduced a Fellowship programme in which outstanding Researchers in Signal Processing are given the Name "EURASIP FELLOW". It is the most prestigious award the society has to offer to distinguish brilliant research activities in more than one field of Signal Processing.

This year a committee under the guidance of Peter Grant (EURASIP Fellow 2007) selected three outstanding persons that will officially be named "EURASIP FELLOW" at this year's EUSIPCO in Aalborg, Denmark.

Alfonso Farina received the doctor degree in electronic engineering from the University of Rome (I), Italy, in 1973. In 1974, he joined Selenia, now SELEX Sistemi Integrati, where he has been a Manager since May 1988. He was Scientific Director in the Chief Technical Office. Currently, he is Director of the Analysis of Integrated Systems Unit. In his professional life, he has provided technical contributions to detection, signal, data, image processing and fusion for the main radar systems conceived, designed, and developed in the Company. He has provided leadership in many projects—also conducted in the international arena—in surveillance for ground and naval applications, in airborne early warning and in imaging radar. From 1979 to 1985 he has also been professor of radar techniques at the University of Naples; in 1985 he was appointed Associate Professor. He is the author of more than 450 peer-reviewed technical publications and the author of books and monographs: *Radar Data Processing* (Vol. 1 and 2) (translated in Russian and Chinese), Researches Studies Press (UK), John Wiley & Sons (USA), 1985–1986; *Optimized Radar Processors*, (on behalf of IEE, Peter Peregrinus Ltd. London, UK),1987; and *Antenna Based Signal Processing Techniques for Radar Systems*, 1992. He wrote the chapter "ECCM Techniques" in the *Radar Handbook* (2nd ed., 1990, and 3rd ed., 2008), edited by Dr. M. I. Skolnik. Dr. Farina has been session chairman at many international radar conferences. In addition to lecturing at universities and research centers in Italy and abroad, he also frequently gives tutorials at the International Radar Conferences on signal, data and image processing for radar; in particular on multisensor fusion, adaptive signal processing, space-time adaptive processing (STAP), and detection. In the 1987, he received the Radar Systems Panel Award of IEEE Aerospace and Electronic Systems Society (AESS) for development of radar data processing techniques. He is the Italian representative at the International Radar Systems Panel of the IEEE AESS. He is the Italian industrial representative (Panel Member at Large) at the SET (Sensor and Electronic Technology) of RTO (Research Technology Organisation) of NATO. He has been in the BoD of the International Society for Information

Fusion (ISIF). He has been the Executive Chair of the International Conference on Information Fusion (Fusion) 2006, Florence, Italy, July 10–13, 2006. He has been nominated Fellow of IEEE with the following citation: "For development and application of adaptive signal processing methods for radar systems." Recently, he has been nominated international fellow of the Royal Academy of Engineering, U.K.; this fellowship was presented to him by HRH Prince Philip, the Duke of Edinburgh.

He is a referee of numerous publications submitted to several journals of IEEE, IEE, Elsevier, etc. He has also cooperated with the Editorial Board of the *IEE Electronics* & *Communication Engineering Journal*. More recently, he has served as a member of the Editorial Board of *Signal Processing* (Elsevier) and has been Co-Guest Editor of its Special Issue on New Trends and Findings in Antenna Array Processing for Radar, September 2004. He is the co-recipient of the following best paper awards: entitled to B. Carlton of the IEEE Transactions on Aerospace and Electronic Systems for 2001 and 2003 and also of the International Conference on Fusion 2005. He has been the leader of the team that received the 2002 AMS CEO award for Innovation Technology. He has been the co-recipient of the AMS Radar Division award for Innovation Technology in 2003. Moreover, he has been the co-recipient of the 2004 AMS CEO award for Innovation Technology. He has been the leader of the team that won the 2004 First Prize Award for Innovation Technology of Finmeccanica, Italy. This award context has seen the submission of more than 320 projects. This award has been set for the first time in 2004. In September 7, 2006, he received the Annual European Group Technical Achievement Award 2006 by the European Association for Signal, Speech and Image Processing (EURASIP), with the citation: "For development and application of adaptive signal processing technique in practical radar systems." In 2006 and 2009 he has been co-recipient of the annual Innovation Technology award of SELEX Sistemi Integrati. He has been appointed member in the Editorial Boards of IET *Radar, Sonar and Navigation and of Signal, Image, and Video Processing Journal* (SIVP). He has been the General Chairman of the IEEE Radar Conference 2008, Rome, May 26–30, 2008. He is a Fellow of the IET (Institution of Engineering and Technology), UK.

Alfonso is also the recipient of the 2010 IEEE Dennis J. Picard gold Medal for Radar Technologies and Applications with the following citation: "For continuous, innovative, theoretical and practical contributions to radar systems and adaptive signal processing techniques."

Stéphane Mallat was born in Paris, France. He graduated from Ecole Polytechnique, Paris, France, in 1984 and the Ph.D. degree in electrical engineering from the University of Pennsylvania, Philadelphia, in 1988. In 1988, he joined the Computer Science Department of the Courant Institute of Mathematical Sciences at New York University, New York, where he became Associate Professor in 1993 and Professor in 1998. In fall 1994, he was a Visiting Professor in the Electrical Engineering Department at the Massachusetts Institute of Technology (MIT), Cambridge, and in spring 1994 in the Applied Mathematics Department at the University of Tel Aviv, Israel. Since 1995, he has been a Professor in the Applied Mathematics Department at Ecole Polytechnique and was a Chairman of the Department from 1998 to 2001. From 2002 to 2007, he was the CEO of Let ItWave, Paris,

France, a start-up company in image processing. His research interests include computer vision, signal processing, applied mathematics, and harmonic analysis.

Dr. Mallat received the 1990 IEEE Signal Processing Society's Paper Award, the 1993 Alfred Sloan Fellowship in Mathematics, the 1997 Outstanding Achievement Award from the SPIE Optical Engineering Society, and the 1997 Blaise Pascal Prize in applied mathematics from the French Academy of Sciences. He was awarded the 2004 ISI-CNRS prize for the most cited French researcher in Engineering and Computer Science during the last 20 years. He received in 2007 the EADS grand prize of the French Academy of Sciences.

Petros Maragos received the Diploma degree in electrical engineering from the National Technical University of Athens, Greece, in 1980, and the M.Sc.E.E. and Ph.D. degrees from the Georgia Institute of Technology, Atlanta, USA, in 1982 and 1985.

In 1985 he joined the faculty of the Division of Applied Sciences at Harvard University, Cambridge, Massachusetts, where he worked for eight years as professor of electrical and computer engineering, affiliated with the interdisciplinary Harvard Robotics Lab. He has also been a consultant to several industry research groups including Xerox's research on image analysis. In 1993 he joined the ECE faculty of Georgia Tech, Atlanta. During parts of 1996–98 he was on sabbatical and academic leave working as Director of Research at the Institute for Language and Speech Processing in Athens. Since 1998 he has been working at the National Technical University of Athens as professor of electrical and computer engineering. Since 2008 he is also the director of the NTUA-ECE Robotics Laboratory. His current research and teaching interests include the general areas of signal processing, systems theory, pattern recognition, and their applications to computer vision and image processing, computer speech and language processing, multimedia and cognitive systems. In the above areas he has authored or co-authored more than 200 publications as journal papers, book chapters or conference proceeding articles. He recently co-edited a Springer book on multimodal processing and interaction.

He has served as associate editor for the IEEE Transactions on Acoustics, Speech & Signal Processing and the Transactions on Pattern Analysis and Machine Intelligence; as editorial board member for the EURASIP journal of Signal Processing and the J. Visual Communications and Image Representation. He has also served as member of IEEE technical committees (DSP, IMDSP, MMSP), as general chairman or co-chair for several international conferences, including the 1992 SPIE Conf. on Visual Communications and Image Processing, the 1996 Int'l Symposium on Mathematical Morphology & Its Applications to Image Processing, the 2007 IEEE Int'l Workshop on Multimedia Signal Processing, and as program co-chair of the 2010 European Conference on Computer Vision.

His research has received several awards, including: a 1987 USA NSF Presidential Young Investigator Award; the 1988 IEEE ASSP Society's Young Author Best Paper Award for his paper "Morphological Filters"; the 1994 IEEE Signal Processing Society's Senior Best Paper Award for his paper "Energy Separation in Signal Modulations with Application to Speech Analysis"; the 1995 IEEE W.R.G. Baker Award for the most outstanding original paper in all IEEE publications; and the 1996 Pattern Recognition Society's Honorable Mention Award for best paper ("Min-Max Classifiers"). In 1995 he was elected Fellow of the IEEE for his

contributions to the theory and application of nonlinear signal processing systems. He is the recipient of the 2007 EURASIP Technical Achievements Award for contributions to nonlinear signal processing and systems theory, image processing, and speech processing.

EURASIP Awards Presented at EUSIPCO 2010

The European Association for Signal Processing (EURASIP) congratulates the following colleagues who will receive the Society's prestigious awards. The awards will be presented at EUSIPCO 2010 in Aalborg, Denmark (for more details, please visit the website http://www.eusipco2010.org/).

The Technical Achievement Award honours a person who, over a period of years, has made outstanding technical contributions to the theory or practice in technical areas within the scope of the Society, as demonstrated by publications, patents, or recognized impact on this field. This year's recipient is **Sergio Barbarossa** (University of Rome "La Sapienza", Rome, Italy), in recognition of his fundamental contributions to Synthetic Aperture Radar (SAR), MIMO communication systems, dynamic spectrum allocation for cognitive radio, sensor networks. The work of Prof. Barbarossa and his co-workers has had great impact on academic research and industry.

The Group Technical Achievement Award is given to the head of a group in academia or industry that has achieved significant contributions in signal processing and related areas over a number of years. This year's recipient is **Miguel Angel Lagunas** (Director of CTTC, the Centre Tecnològic de Telecomunicacions de Catalunya, Barcelona, Spain), in recognition of his fundamental contributions to theory and industrial applications of statistical signal processing. Professor Lagunas contributed since 1974 to create groups and organizations that are well-known in the scientific community: the Signal Processing groups at the Universitat Politcnica de Catalunya (UPC) and at the CTTC. Thanks to his personal effort and enthusiasm, he was able to engage directly more than 160 people to research on signal processing during three decades in the UPC and CTTC research groups.

The Meritorious Service Award is given to a distinguished scientist in acknowledgement of his/her services to EURASIP. This year, exceptionally, the AdCom members decided to jointly award two colleagues who are serving as the Editors-in-Chief of two of the most prestigious and successful EURASIP journals: **Bjorn Ottersten** (Director of the Interdisciplinary Centre for Security, Reliability and Trust, University of Luxembourg, Luxembourg), for his leadership and activities as Editor-in-Chief of the Signal Processing Journal, and **Philippe Regalia** (Catholic University of America, Washington D.C., USA), for his leadership and activities as Editor-in-Chief of the Journal on Wireless Communications and Networking and of the Journal on Advances in Signal Processing.

In addition to the Society's awards, at EUSIPCO 2010 also four Best Paper Awards will be awarded, honouring the authors of a paper of exceptional merit dealing with a subject related to the Society's technical scope, and published in one of the EURASIP journals in the

4-years time-window 2005-2008. The prize is 1,000 Euros and a certificate. For each journal, a collection of papers were pre-selected by the journal Editor-in-Chief, based on the following criteria: i) the scores of the reviewers, ii) the number of downloads, iii) the number of citations; iv) the evaluations of members of the editorial boards, including the guest editors of the special issues. The nominated papers were then evaluated by a committee of four experts who selected the paper to be awarded based on general quality, originality, subject matter, and timeliness. This year, the awardees are the following:

Ying-Chang Liang, Sayed Naveen, Santosh K. Pilakkat, and Ashok K. Marath: "*Reconfigurable Signal Processing and Hardware Architecture for Broadband Wireless Communications*". Journal on Wireless Communications and Networking, Volume 2005. Pages 323–332.

Jeroen Breebaart, Steven van de Par, Armin Kohlrausch, and Erik Schuijers. "*Parametric Coding of Stereo Audio*". Journal on Applied Signal Processing. Volume 2005 (2005), Issue 9, Pages 1305–1322.

Joel A. Tropp, Anna C. Gilbert, Martin J. Strauss. "*Algorithms for simultaneous sparse approximation. Part I: Greedy pursuit*". Signal Processing. Volume 86, Issue 3, March 2006. Pages 572–588.

Dongwook Cho and Tien D. Bui. "*Multivariate statistical modeling for image denoising using wavelet transforms*". Signal Processing: Image Communication. Volume 20, 2005. Pages 77–89.

For the first three journals the award is assigned yearly, for the last one every two years, as detailed in the EURASIP webpage (http://www.eurasip.org). The best paper awards are kindly sponsored by the journals publishers, Hindawi and Elsevier.

Finally, we thank all the members of the best paper award committees for their careful and thorough reading of the nominated papers. We would like to acknowledge those who served in these committees: Kostas Berberidis, Mujdat Cetin, Jonathon Chambers, Alex Gershman, Georgios B. Giannakis, Christine Guillemot, Kevin Knuth, Ercan Kuruoglu, Marco Luise, Marc Moonen, Joern Ostermann, Jean-Cristoph Pesquet, Augusto Sarti, Ananthram Swami, Michel Unser, and Abdelhak Zoubir.

Fulvio Gini
EURASIP Awards Chairman

EURASIP Message Liaison

After half year of running the Local Liaison Program we have began to work on different initiatives. Most of them are seminars and short courses. At http://www.eurasip.org/upcoming_seminars.html you can find full information about the past and the upcoming seminars:

Eurasip Seminar on Hardware Design of DSP Systems

More info at: http://biolab.uspceu.com/ gabriel/SeminarDSP2010.pdf
Organization: Prof. G. Caffarena
Placed: San Pablo-CEU, Madrid, Spain
Dated: May 6, 2010

Distributed and Sequential Sensing of Spatio-Temporal Spectra for Cognitive Radios

Keynote speaker: Prof. Giannakis (University of Minnesota, USA).
More info at:http://www.conference.iet.unipi.it/cip2010/
Organization: Prof. F. Gini & Prof. S. Theodoridis
Place: Elba Island (Italy)
Date: June 14, 2010

Enriching the Art of Engineering Design via Convex Optimization

Keynote speaker: Prof. Tim Davidson (McMaster Univ.).
Organization: Prof. M. Ghogho
Place: Marrakech (after SPAWC 2010)
Date: June 24, 2010

We encourage you to promote such sort of events. The actual format of these activities is intentionally left largely undefined. You can send your application to ana.isabel .perez@upc.edu and you will have a decision on it within one month from its submission.

Liaisons are appointed by EURASIP Adcom and are chosen to best meet the profile of active people within the Signal Processing community. They are in charge not only of coordinating and stimulating local activities, but also of contributing to promote EURASIP at the national level, increasing the response to problems and inviting young collaborators and colleagues to submit their PhD theses. Currently we have more than 50 Liaisons working with us.

For more information about the Local Liaison Program, how to enrol and to find out who your liaison is in your country, we encourage you to contact me or to visit the new webpage:http://www.eurasip.org/LocalLiaison.html.

There you will find also that we have created a Forum: http://195.251.230.158, which can be used, for instance, to post messages/comments and documents.

Any comments that you might have about "What do you expect from Eurasip?" are very welcome and can initiate some nice discussions.

Ana Perez-Neira
Membership Development

EURASIP PhD Links

EURASIP web site (http://www.arehna.di.uoa.gr/thesis/) presently hosts the largest PhD thesis pool in the world in the domain of signal processing". The relevance of this database is multifaceted:

-First, it is a very valuable source of information for researchers in signal processing, especially for PhD students. A PhD thesis documents a research subject in much greater detail as compared to a journal or conference paper. Despite their extreme usefulness in disseminating information, the papers are necessarily limited in page numbers. The manuscript, in contrast, will often contain implementation issues and literature survey in much more detail, which can help the researcher to reproduce the results.

-Second, it gives a global view of European academic research in signal processing. For example, when these are listed by country and/or university, it gives an idea about the commitment and strength of those institutions, at least among those that are regularly submitting their data to the EURASIP site. Note that the requirement is not that the thesis is in English language but any language in the EU is accepted. Only an English written abstract should exist.

The EURASIP PhD Thesis page regularly monthly updates the download statistics. These statistics indicate the vitality of this database, as some of the monthly downloads or cumulative yearly downloads are well beyond the download rates of many journal papers.

We should also point the limitations of the database. The submission of the theses to the database is on a voluntary basis, and is not obligatory as in the case of the French PASTEL digital library system. As a consequence, we estimate that presently the database represents less than twenty percent of the European potential. Although theses in any European language can be deposited, authors of non-English theses shy away from this database, possibly thinking that it will not attract much attention. On the contrary, EURASIP hopes that it can function not only as international repository, but indirectly as the national repository of theses written in that country's language. Finally, there is the handicap that in some countries the theses are considered as published books, hence there exist copyright issues.

We believe that EURASIP provides a very useful service to the signal processing community by maintaining the PhD thesis database. Please make your colleagues aware of this EURASIP service and encourage them to submit their work so that we can reach the critical mass of thousands of theses. A final note of encouragement to PhD thesis advisors: EURASIP is actually planning to initiate a "PhD Thesis award" to be given

equally to the author as well as to the advisor for whom the theses he/she has guided has reached a threshold level of downloads. Further requirements are that those theses with high download numbers are checked for outstanding quality and provisions are made to suppress duplicate downloads.

Bulent Sankur
Publication Coordinator

EURASIP Job Posts

EURASIP has recently started a new service: job posts. This link on the EURASIP's page (http://www.arehna.di.uoa.gr/JobPosts/) aims to be an interface between researchers and engineers in the area of signal processing seeking employment and companies or research institutions that are seeking recruitment. The announcements can vary from PhD scholarships to post-doc positions, from staff engineers to project-based research personnel.

Posting a job is very straightforward: just click on the "submit" link and fill in the metadata through a user-friendly interface. The posted job will stay on the page till the expiration date specified by you.

Inform your director of research or company recruitment officers about this wonderful opportunity.

Bulent Sankur
Publication Coordinator

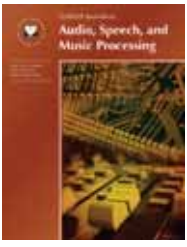
An Overview of EURASIP Journals

EURASIP publishes ten journals on the theory and applications of signal processing. Two of these journals, namely Signal Processing and EURASIP Journal on Advances in Signal Processing have general scope. The remaining eight journals have more focused scopes in specialized areas such audio and music, embedded systems, information security and bioinformatics.

The 10 EURASIP journals collectively publish about 1000 articles in 10.000 pages in one year. Their collective monthly download statistics has reached 100.000 per month. A brief survey of the vital statistics of these journals and an assessment of their achievements are given below.

Five EURASIP Flagship journals

Five Emerging EURASIP Journals



The goal of **EURASIP Journal on Audio, Speech, and Music Processing** to bring together researchers, scientists and engineers working on the theory and applications of the processing of various audio signals, with a specific focus on speech and music. Its editor-in-chief is D. O'Shaughnessy, University of Quebec, Canada.

The overall aim of **EURASIP Journal on Bioinformatics and Systems Biology** is to publish research results related to signal processing and bioinformatics theories and techniques relevant to a wide area of applications into the core new disciplines of genomics, proteomics, and systems biology. The editor-in-chief of the journal is Ioan Tabus, Tampere University of Technology, Finland.

EURASIP Journal on Embedded Systems publishes papers on the theory and practice of embedded systems, particularly encompassing all practical aspects of theory and methods used in designing homogeneous as well as heterogeneous embedded systems that combine data-driven and control-driven behaviours. The editor in-chief of the journal is Zoran Salcic, University of Auckland, New Zealand.

EURASIP Journal on Information Security focuses on the use of signal processing tools to enable the security of digital contents, and as such, it addresses enabling technologies that include watermarking, data hiding, steganography and steganalysis, joint signal processing and encryption, perceptual hashing, identification, biometrics, fingerprinting, and digital forensics. The editor-in-chief is Andrzej Drygajlo, EPFL, Switzerland.

EURASIP Journal on Image and Video Processing is intended for researchers from both academia and industry, who are active in the multidisciplinary field of image and video processing. The editor-in-chief of the journal is Jean-Luc Dugelay, EURECOM, France.

Bulent Sankur
Publication Coordinator

Workshop and Conference Activities

I am writing to you from Marrakech, Morocco, where I am attending the 11th IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC 2010). Not only did the organisers put together a technical programme of the highest quality, but also, as one of the attendees commented, a hard-to-beat social program in this beautiful and culturally diverse city. Last week, I attended the 2nd International Workshop on Cognitive Information Processing (CIP 2010), held in Elba, Italy from 14–16 June 2010. This Workshop which aims at bringing together researchers from the machine learning, pattern recognition, statistical signal processing, communications and radar communities, was a great success. Once again, the organisers showed their ability to put together an outstanding technical programme with a range of topics. The care with which the social program was organised on this beautiful Tuscan island is exemplary.

EURASIP is proud of having co-sponsored the above two workshops. Undoubtedly, the quality of the organising committees of both workshops, as well as that of the international Technical Program Committees, the history of the workshops, and the quality of plenary speakers, constituted the key criteria for the co-sponsorship. These criteria explain the tremendous success of those workshops. I would like to congratulate the Workshop Co-Chairs and their teams for their time, effort, and dedication.

I encourage you to seek EURASIP co-sponsorship for your workshop or conference. You may wish to send me a note, addressing the criteria mentioned above in order to assess the value of your planned workshop. In this issue of the newsletter, you will also find a calendar of events, which lists forthcoming workshops or conferences that are co-sponsored by EURASIP. Some Calls for Papers are also included. Among these you will find the CFP for the forthcoming EUSIPCO conferences. AdCom would be glad to receive your proposals for a future EUSIPCO conference.

Most of you should have received a copy of the newsletter in Aalborg, Denmark, while attending The 18th European Signal Processing Conference (EUSIPCO 2010). The General Chair, Søren Holdt Jensen, and his General Co-Chair, Mats Viberg, together with their team, selected outstanding plenary speakers, special sessions and tutorial speakers on timely and most interesting topics. The success of the EUSIPCO conference is dependent upon your active participation. I look forward to meeting with you in Aalborg.

Abdelhak Zoubir
EURASIP Event Coordinator

Calendar of Events

Year	Date	Event	Location	EURASIP Involvement	Chairperson/Information
2010	June 30–July 2	The 4th International Conference on Image and Signal Processing (ICISP 2010)	Trois-Rivières, Québec, Canada	Co-sponsor	Olivier Lezoray http://www.uqtr.ca/~icisp/
	July 5-6	The 2nd European Workshop on Visual Information Processing (EUVIP 2010)	Paris, France	Co-sponsor	Azeddine Beghdadi http://www-l2ti.univ-paris13.fr/~euvip/
	July 7–10	The 2nd International Conference on Image Processing Theory, Tools and Applications (IPTA 2010)	Paris, France	Co-sponsor	Khalifa Djemal http://ipta10.ibisc.univ-evry.fr/
	July 21–23	The 7th International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP 2010)	Newcastle, UK	Co-sponsor	Fary Ghassemlooy http://www.csndsp.com/
	August 23–27	The 18th European Signal Processing Conference (EUSIPCO 2010)	Aalborg, Denmark	Sponsor	Søren Holdt Jensen http://www.eusipco2010.org
	September 6-7	The Third International EURASIP Workshop on RFID Technology (RFID 2010)	La Manga del Mar Menor, Cartagena, Spain	Co-Sponsor	Javier Vales-Alonso http://www.ait.upct.es/EURASIP-RFID2010/
	September 15–17	The 52nd International Symposium ELMAR-2010	Zadar, Croatia, Spain	Co-Sponsor	Ive Mustac http://www.elmar-zadar.org/2010
2011	August 29–September 2	The 19th European Signal Processing Conference (EUSIPCO 2011)	Barcelona, Spain	Sponsor	Ana Perez Neira http://www.eusipco2011.org
2012	August 27–31	The 20th European Signal Processing Conference (EUSIPCO 2012)	Bucharest, Romania	Sponsor	Béatrice Pesquet-Popescu http://www.eusipco2011.org

Abdelhak Zoubir; *EURASIP Event Coordinator*

Preliminary call for papers

The 2011 European Signal Processing Conference (EUSIPCO-2011) is the nineteenth in a series of conferences promoted by the European Association for Signal Processing (EURASIP, www.eurasip.org). This year edition will take place in Barcelona, capital city of Catalonia (Spain), and will be jointly organized by the Centre Tecnològic de Telecomunicacions de Catalunya (CTTC) and the Universitat Politècnica de Catalunya (UPC).

EUSIPCO-2011 will focus on key aspects of signal processing theory and applications as listed below. Acceptance of submissions will be based on quality, relevance and originality. Accepted papers will be published in the EUSIPCO proceedings and presented during the conference. Paper submissions, proposals for tutorials and proposals for special sessions are invited in, but not limited to, the following areas of interest.

Areas of Interest

- Audio and electro-acoustics.
- Design, implementation, and applications of signal processing systems.
- Multimedia signal processing and coding.
- Image and multidimensional signal processing.
- Signal detection and estimation.
- Sensor array and multi-channel signal processing.
- Sensor fusion in networked systems.
- Signal processing for communications.
- Medical imaging and image analysis.
- Non-stationary, non-linear and non-Gaussian signal processing.

Submissions

Procedures to submit a paper and proposals for special sessions and tutorials will be detailed at www.eusipco2011.org. Submitted papers must be camera-ready, no more than 5 pages long, and conforming to the standard specified on the EUSIPCO 2011 web site. First authors who are registered students can participate in the best student paper competition.

Important Deadlines:

Proposals for special sessions
Proposals for tutorials
Electronic submission of full papers
Notification of acceptance
Submission of camera-ready papers

Webpage: www.eusipco2011.org

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Yonina Eldar (Technion)

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Mats Bengtsson (KTH)

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Angeliki Alexiou (University of Piraeus)
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Rich Stern (CMU-USA)

EUROPEAN ASSOCIATION FOR SIGNAL PROCESSING

20th European Signal Processing Conference EUSIPCO 2012

Bucharest, Romania August 27-31, 2012

EUSIPCO 2012 Call for Papers

The 2012 European Signal Processing Conference (EUSIPCO-2012) is the 20th of its kind organized by the European Association for Signal, Speech, and Image Processing (EURASIP).

The conference will be held at the Palace of the Parliament in Bucharest, Romania and is organized by University POLITEHNICA of Bucharest and Telecom ParisTech. The focus will be on signal processing theory, algorithms, and applications. Papers will be accepted based on quality, relevance, and novelty and accepted papers will be published in the proceedings of EUSIPCO-2012 and indexed in the main bibliographic databases.

General Chairs
Corneliu Burileanu – *University POLITEHNICA of Bucharest*
Béatrice Pesquet-Popescu – *Télécom ParisTech*

Technical Chairs
PierLuigi Dragotti – *Imperial College, London*
Erchin Serpedin – *Texas University*

Plenary Chairs
Markus Rupp – *Technical University Wien*
Horia-Nicolai Teodorescu - *Technical University of Iasi.*

Special Sessions Chairs
Eric Pauwels – *Centrum Wiskunde & Informatica, Amsterdam*
Silviu Ciochina – *University POLITEHNICA of Bucharest*

Tutorial Chairs
Bulent Sankur – *Bogazici University Istanbul*
Petros Maragos – *Technical University Crete*

AREAS OF INTEREST

Submissions are invited in, but not limited to, the following areas:

- Audio and electroacoustics
- Design and implementation of signal processing systems
- Multimedia signal processing
- Spoken language technology
- Image and video processing
- Signal estimation and detection
- Sensor array and multi-channel processing
- Signal processing for communications
- Nonlinear signal processing
- Signal processing applications
- Bio-medical signal processing
- Information forensics and security

SUBMISSION

Procedures to submit a paper, proposal for special sessions and tutorials are detailed at www.eusipco2012.org. Submitted papers must be camera-ready, no more than five pages long, and conforming to the format specified on the EUSIPCO-2012 website.

SCHEDULE

- Proposals for special sessions December 4, 2011
- Proposals for tutorials February 19, 2012
- Electronic submission of papers February 26, 2012
- Notification of acceptance May 20, 2012
- Submissions of camera-ready papers June 17, 2012

MORE INFORMATION is available at http://www.eusipco2012.org

R F I D 2 0 1 0

The Third International EURASIP Workshop on RFID Technology

RFID 2010

6-7 September 2010, La Manga del Mar Menor, Cartagena, Spain

Call for Papers

The third international EURASIP workshop on RFID technology will provide a premium forum for presentation of the most recent research in this new technology. The objective is to continue, accelerate, and broaden the momentum already gained in this field. This call for papers intends to solicit contributions on the latest research of this new technology for wireless communication systems, spanning from the individual tag to entire systems based on RFIDs.

Important Dates

Paper submission: 25. May 2010
Author notification: 29. June 2010
Final version due: 14. July 2010
Conference: 6-7 September 2010

Organizing Committee

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Ana M. Bernardos Barbolla, UPM, Spain

The topics of the conference include, but are not limited to:

- Electromagnetic field measurements
- Antenna Design
- Multiple antenna systems
- Modulation schemes for RFID
- Link, system and network level simulations
- Hardware and software implementation issues
- Inductive coupling for DC supply
- Multi-frequency and broadband tags
- Near field communications
- Smart tags, programmable tags and embedded systems
- Sensor tags and RFID for asset tracking and localization
- Advances in passive long range RFID technology
- Manufacturing processes for RFID tags
- Applications and industrial experience
- Standards and communication protocols
- Internet of things

Submissions guidelines:

Authors are encouraged to submit original, unpublished work for presentation at the workshop in the form of posters and/or full papers. Acceptance shall be based on an extended abstract of at most four pages or (if already avaliable) on full papers.
More information: http://www.ait.upct.es/EURASIP-RFID2010/

Workshop Venue:

The workshop will be held in **La Manga del Mar Menor**, Cartagena, Spain.

EURASIP
Universidad Politécnica de Cartagena
ait
SETra

Elmar

IEEE REGION 8

IEEE CROATIA SECTION

EURASIP

52nd International Symposium ELMAR-2010

September 15-17, 2010
Zadar, Croatia

Call for Papers

The 52nd International Symposium ELMAR-2010, **the oldest conference in Europe**, will be traditionally held in the beautiful old town Zadar on the Croatian Adriatic coast. While the scientific program is expected to create stimulating professional interaction, the crystal clear Adriatic Sea, warm summer atmosphere and wealth of historic monuments promise a pleasant and memorable stay.

During the 52 years of activity ELMAR symposium became a significant scientific conference in the field of multimedia communications, image and video processing, navigation systems, speech and audio processing, telecommunications, wireless commununications, electronics in marine, naval architecture, sea ecology, and other advanced research areas. Besides, every year ELMAR symposium gathers specialists of various kinds (government representatives, navy, industry, universities and various business people from the region) to discuss the most recent issues and contribute to appropriate market development in Croatia.

The scientific program includes keynote talks by eminent international experts and contributed papers. Papers accepted by two independent reviewers will be published in symposium proceedings available at the symposium and abstracted in the IEEExplore database. ELMAR-2010 symposium is sponsored by the Croatian Society Electronics in Marine (ELMAR), technically co-sponsored by IEEE Region 8, IEEE Croatia Section, IEEE Croatia Section Chapter of the Signal Processing Society, IEEE Croatia Section Joint Chapter of the Antennas and Propagation / Microwave Theory and Techniques Societies and organized in cooperation with EURASIP (European Association for Signal, Speech and Image Processing).

TOPICS

- Image and Video Processing
- Multimedia Communications
- Speech and Audio Processing
- Wireless Commununications
- Telecommunications
- Antennas and Propagation
- Navigation Systems
- Ship Electronic Systems
- Power Electronics and Automation
- Naval Architecture
- Sea Ecology
- Special Session Proposals - *A special session consist of 5-6 papers which should present a unifying theme from a diversity of viewpoints*

KEYNOTE SPEAKERS

- **Prof. Lajos Hanzo**, University of Southampton, United Kingdom:
  Telepresence, the 'World-Wide Wait' and 'Green' Radios...
- **Dr. Michael M. Bronstein**, Technion - Israel Institute of Technology, Israel:
  Non-rigid, non-rigid, non-rigid world
- **Dr. Mikel M. Miller**, AFRL Munitions Directorate, Eglin Air Force Base, Florida, USA:
  Got GPS? The Navigation Gap
- **Dr. Panos Liatsis**, City University London, United Kingdom:
  3D reconstruction and stenosis quantification in CT angiograms

SUBMISSION

"Author's Kit" is available here: **www.elmar-zadar.org** **IMPORTANT:** Web-based (online) submission of papers in PDF format is required for all authors. No e-mail, fax, or postal submissions will be accepted. Authors should prepare their papers according to ELMAR-2010 paper sample, convert them to PDF (based on IEEE requirements), and submit papers using web-based submission system by March 15, 2010.

SCHEDULE OF IMPORTANT DATES

Deadline for submission of full papers	March 15, 2010
Notification of acceptance mailed out by	May 10, 2010
Deadline for submission of camera-ready papers	May 20, 2010
Preliminary program available on the web-site by	June 14, 2010
Registration deadline	June 21, 2010

For further information please visit:
www.elmar-zadar.org

ORGANIZING SPONSOR

Croatian Society Electronics in Marine - ELMAR

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IEEE Croatia Section Joint Chapter of the AP/MTT Societies

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Signal, Speech and Image Processing

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Reproducible Research in Signal Processing

Reading some of the more recent literature [1–5] about reproducible results, it became obvious to me that our research has been and still is in most cases non-reproducible. This is quite astonishing but I can convince you easily. Simply try to reproduce a single result from one of your own papers published ten years ago. It will outcome as predicted: you will not be able to reproduce anything. Now try a paper that was published two years ago. Can you do it? I could not. Not that I did not have the code any more but the last version saved was unfortunately not the one used for the publication result and the slightly different parameters used in the publication were not written down somewhere.

This situation was realized by many people before not only in signal processing. When Mauro Barni started our EURASIP Journal on Information Security he wanted to emphasize on reproducible results as there was a clear need for it and many researchers requested it. After running the journal for a couple of years it turned out that although everybody demands reproducible results, providing them is a different thing. Along with the question of reproducible results also comes the question of validation. How did you make sure your simulation is correct? Are there means to this end?

By now some activities to facilitate reproducible results have been started, for example the excellent web page: http://reproducibleresearch.net/index.php/Main_Page

EURASIP wants to find out if there are some areas in signal processing that are more prone to reproducible results than others. We therefore announce this special issue on our Journal on advances in Signal Processing (JASP) where the focus is on reproducible results in signal processing. We are looking forward for your contribution on this very important topic.

Markus Rupp
President

[1] D. E. Knuth, *Literate Programming*, The Computer Journal, vol. 27, no. 2, pp. 97–111, May 1984.

[2] M. Barni, F. Perez-Gonzalez, P. Comesaña, and G. Bartoli, *Putting reproducible signal processing into practice: A case study in watermarking*, in Proc. IEEE International Conference on Acoustics, Speech and Signal Processing, vol. 4, April 2007, pp. 1261–1264.

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EURASIP Journal on Advances in Signal Processing

Special Issue on Reproducible Research in Signal Processing

Call for Papers

This special issue of the EURASIP Journal of Advances in Signal Processing is intended to present innovative signal processing ideas that can be readily reproduced mainly by other researchers.

Reproducible research results become more and more an important issue as systems under investigation are growing permanently in complexity, and it becomes thus almost impossible to judge the accuracy of research results merely on the bare paper presentation.

The precise definition of *reproducibility* varies across disciplines, but it is often closely related to the definitions of *repeatability* and *replicability*. In a recent encyclopedia of philosophy of science, reproducibility is described as the repeatability of the process of establishing a factor of the conditions under which the same fact can be observed. In natural science, reproducibility is often related closely to the repeatability of experimental conditions and results.

We devote this special issue particularly to research results in signal processing that can be proven to be reproducible. In particular, we expect that the code and the companion data in the paper will be available by the authors at submission time to be checked as part of the review process. If the paper is accepted for publication, then the software must be provided for downloads on the publisher's webpage. Though source code is preferred, the authors must prepare a working object code.

In order to facilitate reproducible results, we expect that all code is provided to reproduce the various tables and figures in the paper. Furthermore, we expect that the code is well documented and a permanent email address as point of contact shall be provided possibly also with a permanent webpage so that fellow researchers can refer to someone if they have questions or simply report bugs they found. It would also be good to see additional testing material that was used to evaluate the correctness of the code.

In particular we like to include the following fields of signal processing:

- Signal processing in communications
- Signal processing in audio, music and speech
- Signal processing in image and video signal processing in radar, sonar, and remote sensing
- Signal processing for 3D environments
- Signal processing in emerging fields
- Multimedia signal processing

This special issue is open to all contributions. Authors are invited to submit their papers addressing signal and image processing.

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Special Issue on

Musical Applications of Real-Time Signal Processing

CALL FOR PAPERS

In the recent years, musical signal processing applications have greatly expanded the palette of artistic expression by creating a myriad of new possibilities for music and sound creation and manipulation, as well as music listening. Home recording studios have greatly benefited, as virtually all of the tools needed for music production are now available as inexpensive software. In addition to generating abstract "electronic" sounds, modern synthesis techniques can convincingly simulate many wind, string and percussion instruments, and work on the singing voice is generating promising results. Artificial reverberation, pitch shifting, equalization, dynamic range compression, and other audio signal processing techniques in turn have enabled specialized manipulation of recorded and synthetic sounds for artistic as well as fixative purposes. Sophisticated compression, noise canceling, equalization, and bass enhancement algorithms can provide noise-free, high-quality audio for portable music players.

The ongoing pursuit for both creative and realistic sounds and processing nowadays includes real-time sound synthesis and control, spatial sound, and realistic emulation of analog and vintage effects devices and synthesizers, especially with strongly nonlinear and time-varying behavior. The aim of this special issue is to present current research advances in real-time musical signal processing applications. Prospective papers should be unpublished, and present novel, fundamental research offering innovative contributions from a methodological or an application perspective. The expected scope of manuscripts for this special issue includes, but is not limited to:

- Sound synthesis techniques and synthesis control
- Musical instrument and singing voice synthesis
- Equalization and filtering, dynamic range compression, delay and distortion algorithms
- Virtual analog and vintage audio effects
- Reverberation synthesis, measurement and perception
- Analysis of musical instrument sounds for real-time synthesis
- Performance gesture measurement, analysis and synthesis
- Active noise control in portable music players

- Microphone and loudspeaker arrays
- Bandwidth expansion and bass enhancement
- Music loudness estimation
- Synthesis and computer music languages
- Audio coding
- Hardware and software implementations

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EURASIP JOURNAL ON ADVANCES IN SIGNAL PROCESSING

Special Issue on

Precoding and Transmitter-Side Processing Techniques for Multiuser MIMO OFDM Systems with Special Emphasis on the PAPR Problem

CALL FOR PAPERS

Nowadays, MIMO OFDM technology is used almost exclusively in the downlink of mobile communication systems, as its wide-spread application in the uplink is still hampered due to many shortcomings stemming from the high peak-to-average power ratio (PAPR). Indeed, this PAPR problem induces numerous of performance issues such as reduced power efficiency, spectral regrowth when using nonlinear amplifiers, etc., and has spurred numerous proposed schemes to alleviate these. Despite these efforts, the problem cannot be considered as yet solved. This is particularly the case when using multiantenna systems, where many new degrees of freedom can potentially be used.

This special issue aims to close the knowledge gap and should stimulate the design of new precoding and transmitter-side preprocessing/predistortion techniques for multiuser MIMO OFDM systems. In addition to the PAPR problem, other relevant performance measures may be addressed. In this context, further topics of interest include, but are not limited to, the following:

- First, the general peak-power limited channel capacity problem is still of fundamental interest for the problem at hand. At present, optimal coding schemes providing a baseline for the performance and the respective coding tradeoffs particularly including MIMO (e.g., trading diversity-multiplexing gain for PAPR reduction) are still unknown
- A second area of interest includes practical linear preprocessing or nonlinear precoding schemes specifically using the MIMO degrees of freedom to tackle the PAPR. This comprises a thorough performance and complexity analysis for the overall system
- A third direction is the definition and assessment of more general performance metrics replacing the PAPR measure, which in some cases is not adequate to capture the capability of the entire scheme
- Finally, dynamic (algorithmically controlled) predistortion techniques for power amplifiers applied to the MIMO OFDM setting may be addressed

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Special Issue on

Reproducible Research in Signal Processing

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EURASIP JOURNAL ON ADVANCES IN SIGNAL PROCESSING

Special Issue on

Advances in Angle-of-Arrival and Multidimensional Signal Processing for Localization and Communications

CALL FOR PAPERS

Our ability to determine the direction-of-arrival of a transmitted signal via antenna arrays has improved dramatically in recent years. The invention of the MUSIC and ESPRIT algorithms enabled "superresolution" performance exceeding that prescribed by the array dimensions. Applications include localization and tracking of airborne, undersea, or ground-based targets, civilian search and rescue, emergency caller location via cell towers, precision aircraft navigation, characterization and modeling of spatial/temporal channels, and future location-based services in cellular networks. Angle estimation becomes especially challenging when multipath, interference, array miscalibration, or source correlation is encountered. Most textbooks cover only one-dimensional (1D) angle estimation, implying that the source's movement takes place in the plane of the array. The extension to two-dimensional (2D) AOA (azimuth and elevation) not only is necessary for many real-world applications, but also introduces new problems and challenges that do not occur in the 1D case. Furthermore, angular measurements may be combined with other modalities, such as Doppler, delay, delay difference, polarization, received power, etc., necessitating a multidimensional (MD) approach. We invite authors to submit their original manuscripts in this field, with particular emphasis on the following:

- Algorithms solving array calibration or coupling issues in MD, such as blind algorithms, or spatial signature estimation
- Algorithms for improved robustness to angular multipath, source correlation, or identification of direct/nondirect paths
- Theoretical bounds on MD parameter estimation
- Extensions of well-known techniques such as Music, Esprit, IQML, and Propagator Method to MD, including higher-order statistics
- 'Parameter association' approaches to apply multiple 1D estimations to the MD problem for multiple sources, or other complexity reduction techniques
- Algorithms to determine the number of sources
- Novel array geometries and exploitation of array symmetries

- Approaches combining AOA with TOA, TDOA, FOA, or other multidimensional measurements, such as joint angle-Doppler or angle-delay
- Application of AOA and MD parameters to spatial channel estimation, prediction, modeling, or MIMO communication
- Use of MD angle/location information to improve scheduling or networking

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Special Issue on

Cooperative Signal Processing Networks

CALL FOR PAPERS

The performance of distributed multisensor/multiagent systems highly depends on how the collaboration, interoperability, and interplay between individual networked sensor and signal processing nodes are organized in architecture, protocols, and algorithms. The crucial role of signal processing in such distributed schemes for sensing, inference, communication, and control is highlighted by the following aspects:

- Signal processing algorithms generate the input for data driven control schemes
- Signal processing includes decision making on which data to be exchanged when there is only limited communication bandwidth between assets available
- Signal processing algorithms assess the specific sensor performance which enters the control/planning algorithms

Prominent applications are, among others, autonomous surveillance and remote sensing networks for environmental monitoring, and multirobot systems for industrial automation. Each application targets its specific goals and related performance assessments.

From a more mathematical perspective, the task for the signal processing engineer is the "observer design" of a nonlinear stochastic dynamic game with distributed agents where state estimates are subject to noisy measurements. This special issue focuses on the observer design. In a less formal description, the focus is set on sampling, filtering, compression, detection, estimation, and tracking for scenarios where the sensors provide input to multiple and spatially separated actors/actuators that follow joint goals. This special issue solicits submissions from researchers and engineers who are working in the field of observer design for distributed agents and are developing or applying advanced signal processing techniques able to deal with the special challenges entailed in making measurements in autonomous sensor networks.

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EURASIP JOURNAL ON BIOINFORMATICS AND SYSTEMS BIOLOGY

Special Issue on

Computational Systems Biology

CALL FOR PAPERS

This special issue presents selected works from the Seventh International Workshop on Computational Systems Biology (WCSB), http://www.cs.tut.fi/wcsb10/, organized at the University of Luxembourg from June 16 to 18, 2010. WCSB bringing together the various communities involved in the different aspects of computational systems biology research, for example, experimental biology, machine learning, signal processing, mathematics, statistics, and theoretical physics.

In this issue research on computational systems biology will be presented. The topics include but are not limited to machine learning, signal processing, mathematics, statistics, and theoretical physics with applications to, for example, network models, dynamical systems, cancer research, neuroscience, immunology, and stem cell research. The issue is based on the papers presented at the workshop, and the guest editors will invite authors of selected papers to submit their work to the special issue. In addition, the guest editors invite other submissions that cover the above topics.

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Special Issue on

Remote and Proximal Sensing of the Environment for the Detection and Monitoring of Natural Risks

CALL FOR PAPERS

Natural phenomena such as storms, tsunamis, floods, fires, and volcanic eruptions occur frequently. They often result in significant human and economic costs. Land degradation and desertification, although less violent and evident over a longer timescale, represent a natural risk in many countries of the world.

Extensive research is carried out to understand, monitor, manage, and prevent naturally occurring dangers. The contributing areas of research are diverse, requiring both strong individual and multidisciplinary skills in collaboration. It is clear, however, that, in addressing this challenge, the image and video processing discipline makes a very significant contribution.

Natural risks are unpredictable, dangerous and may be widespread. It is often not straightforward, cost-effective, or accurate to use metrological sensors in the ground, for example, to study and track their global evolution. The use of image data is a powerful way to do this: imaging technology enables the phenomena to be observed continuously, safely, and economically without the use of expensive equipment for a single purpose. High-resolution, multispectral, and remote/proximal sensing can be achieved with standard imaging technologies. Once the image/video data is acquired, research into image/video processing is subsequently necessary to obtain useful and timely information about the nature of the risk arising from the natural phenomena drawing on a range of techniques in a well-established and productive field of research.

This special issue invites original, high-quality research articles which address the problem of natural risks and develop or apply advanced image and video processing techniques to detect, monitor, or predict their occurrence. Topics of interest include, and are not limited to:

The use of satellite, multispectral radar, and stereo images combined with image/video processing for the study of natural risks which may include:

- Tsunami
- Flooding
- Fire
- Storm

- Volcanic eruption
- Ocean and sea pollution
- Desertification
- Deforestation
- Glacier elevation changes
- Avalanche
- Monitoring of the ozone layer

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EURASIP JOURNAL ON WIRELESS COMMUNICATIONS AND NETWORKING

Special Issue on

Towards the Connected Body: Advances in Body Communications

CALL FOR PAPERS

Body Area Networks (BANs) are quickly becoming a key technology for wireless communications. They consist of body-worn or implanted sensors that wirelessly communicate, leading either to in- or on-body communications between sensors or to off-body communications with devices located in the close vicinity. BAN's potential applications include, among others, m-health information systems collecting vital parameters in real-time, high-speed connections over the body surface for multimedia transfers or human body interactions with its environment for augmented reality devices.

Several technologies are currently under development in order to enable these communications, either narrowband (including RFID technologies), or ultra-wideband (IR-UWB). The latter could be advantageously coupled with positioning algorithms for simultaneous body motion capture. However, in practice, numerous challenges still need to be tackled in order to make BANs viable. The sensor's autonomy, size, and cost are critical parameters which can only be optimized by adopting an interdisciplinary approach, where the propagation phenomena, the coding or relaying strategies, the MAC protocols, and the network topology are strongly interrelated. The coexistence issue with other networks also seems to be crucial, especially in the hospital environment.

This special issue aims to present the latest advances in BANs, ranging from theoretical studies based on electromagnetics to practical implementations or field trials. Papers taking into account the interdisciplinarity of BANs from the outset are encouraged. Topics of interest include, but are not limited to:

- Propagation, channel modeling, and antenna-body interactions
- Coding for multiantenna and/or multisensor systems
- MAC protocols, network topology, and routing
- Coexistence
- Performance analysis
- Motion capture or sensor localization systems
- Energy efficient devices

- Regulations and standards
- Enabling technologies

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EURASIP JOURNAL ON WIRELESS COMMUNICATIONS AND NETWORKING

Special Issue on

Recent Advances in Multiuser MIMO Systems

CALL FOR PAPERS

Multiple input multiple output (MIMO) is a key technology for future wireless communication systems. By exploiting the multidimensional properties of wireless channels created by multiple transmit and receive antennas, MIMO systems can significantly increase the channel capacity and link robustness of wireless communication and have been widely adopted in many future wireless communication standards (e.g., WiMAX, 3GPP LTE, etc.). Multiuser MIMO algorithms are recently being considered to enhance MIMO systems when the number of users, or connections, is greater than one. Multiuser MIMO can be generalized into two categories: MIMO broadcast channels and MIMO multiple access channels for downlink and uplink situations, respectively. The achievable gains of multiuser MIMO in wireless systems are yet to be demonstrated in practice. Nevertheless, these are forecast to play a major role in the increase of spectral efficiency of future wireless networks. A number of problems need to be addressed before multiuser MIMO becomes widely adopted. Among these problems are interference mitigation and management, resource allocation, the amount of feedback information for precoding and coordination, implementation and energy consumption issues, scalability, and coordination between access points (APs) strategies. The idea of this special issue is to capture recent research contributions and advances in multiuser MIMO systems and their applications to wireless networks. The topics of interest include, but are not limited to:

- Modelling of multiuser MIMO channels
- Precoding techniques
- Detection algorithms
- Limited feedback strategies and channel state information codebook design
- Interference alignment algorithms
- Cooperative and relaying techniques
- Multicell processing or network MIMO
- Scheduling and resource allocation algorithms
- Capacity and performance analysis
- Iterative processing techniques
- Simulation tools and testbeds
- Standardization issues

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EURASIP JOURNAL ON WIRELESS COMMUNICATIONS AND NETWORKING

Special Issue on

Localization in Mobile Wireless and Sensor Networks

CALL FOR PAPERS

Accurate localization and tracking of wireless devices is a crucial requirement for many emerging location-aware systems and services. Fields of applications include emergency/medical care, intelligent transportation, location-based billing, environmental monitoring, energy efficient buildings, location-assisted gaming, and social networking. During the last few years, there have been intensive research activities on this topic, and several solutions have been investigated. The main trend today is towards the integration of heterogeneous technologies to ensure global coverage and high accuracy in all possible scenarios, leading to a seamless localization system available *anywhere anytime*.

While satellite-based navigation is well consolidated for open sky scenarios, localization in harsh environments (indoor or urban canyon) is still an open issue that requires complementary wireless networks such as cellular systems, local/personal area networks, ad-hoc or wireless-sensor networks (UWB, ZigBee, RFID, etc.). Indoor positioning is particularly challenging due to severe multipath and non-line-of-sight (NLOS) propagation. In this context, advanced signal processing algorithms must be employed to guarantee positioning robustness, such as NLOS identification and mitigation, fusion of data from different sources, and Bayesian methods to enclose any a priori information (e.g., dynamic models for mobile positioning). An important area of research is that of cooperative localization which is expected to highly improve accuracy and coverage by exploiting all the available measurements exchanged on a peer-to-peer basis; efficient protocols/procedures have to be designed to minimize communication overheads and energy consumption. Measurement campaigns are fundamental for calibrating signal models, either analytical ones or digital maps for fingerprinting. Analysis of fundamental performance bounds is a valuable tool for benchmarking algorithms and providing guidelines for the design of efficient positioning systems.

The objective of this special issue (whose preparation is carried out under the auspices of the EC Network of Excellence in Wireless Communications NEWCOM++) is to gather recent advances in both signal processing and communications areas, for localization in wireless networks. Papers are solicited on all related aspects, ranging from new algorithms/methodologies, system design and configuration, performance analysis and

experimental studies. The topics of interest include, but are not limited to:

- Static and dynamic positioning algorithms based on multilateration/angulation, fingerprinting, and range-free solutions
- Cooperative localization and distributed systems
- MAC protocols for efficient localization
- Bayesian location estimation and tracking
- Optimization-based localization and tracking
- Hybrid techniques (e.g., combining satellite navigation and wireless communication networks) and data fusion (delays, angles, signal strength, . . .)
- Fundamental limits analysis
- Measurement campaigns, experiments, and statistical channel modelling

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Manuscript Due	December 1, 2010
First Round of Reviews	March 1, 2011
Publication Date	June 1, 2011

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EURASIP JOURNAL ON WIRELESS COMMUNICATIONS AND NETWORKING

Special Issue on

Network Assurance and Security Services in Ubiquitous Environments

CALL FOR PAPERS

The technology for ubiquitous computing system is advancing rapidly; however, the technology for ensuring security and availability has not kept pace. Since security has not been considered as an essential element in the design process and is often added as an afterthought, many modern systems are often plagued with numerous vulnerabilities. Thus, to have secure and resilient ubiquitous systems, essential network assurance and security (NAS) measures have to be incorporated in the design process and during their operation.

Network assurance (NA) quantifies risk from a network perspective, based on a comprehensive set of network facts. A complement to security solutions, network assurance measures the impact of network change on security, availability, and compliance. Using NA, organization can also prioritize remediation efforts based on a complete view of connectivity and risk. This is a critical requirement for validating policies and controls, as organizations weave security into the fabric of the infrastructure. Consequently, NAS has become an important research issue in ubiquitous environments (UEs). Finding effective ways to protect networks and sensitive data within the critical information infrastructure in UE is challenging even with the most advanced technology and trained professionals.

The aim of this special issue is to provide an effective forum for original scientific and engineering advances in NAS issues in UE. It will highlight various aspects of NAS—especially on crucial linkage between availability, compliance, and security. This issue will bring out the latest development and recent research results in this important technical area as well as problems and solutions related to NAS issues in UE. Topics include, but are not limited to:

- Design, architectures, protocols, development, and deployment of NAS
- Availability, dependability, survivability, and resilience issues
- Authentication, Authorization, Access control and ID management
- Redundancy, fault-tolerant models, and failure prevention
- Trust modeling and management
- Risk assessment and management
- Cryptographic, network security and key management

- Novel threats, attacks, vulnerabilities, and countermeasures
- Reverse engineering of malicious code
- Intrusion detection, IDS/IPS
- Anonymity, user, and location privacy
- Content protection and DRM
- System/network management
- Network forensics and fraud detection
- Surveillance and privacy-enhancing technologies
- Adaptive and Autonomic security
- Multimedia security and privacy
- Legal, ethical and policy issues related to NAS
- New ideas and paradigms for NAS

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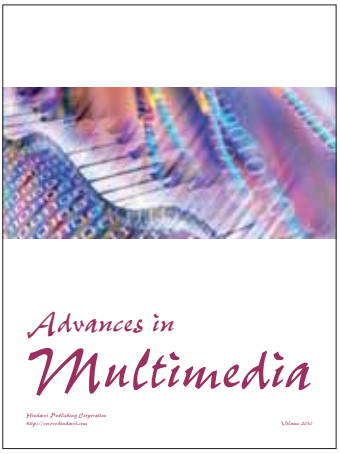
Advances in Multimedia

http://www.hindawi.com/journals/am/

Aims and Scope

Advances in Multimedia is aimed at presenting comprehensive coverage of the field of multimedia. The journal covers research and developments in multimedia technology and applications, including compression, storage, networking, communication, retrieval, algorithms, architectures, software design, circuits, multimedia signal processing, and multimodality devices and systems. Types of multimedia signals involved include audio, speech, video, image, graphics, geophysical, musical, sonar, radar, and medical signals.



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Computational Intelligence & Neuroscience

http://www.hindawi.com/journals/cin/

Aims and Scope

Computational Intelligence and Neuroscience is a forum for the publication of research in the interdisciplinary field of neural computing, neural engineering, and artificial intelligence, where neuroscientists, cognitive scientists, engineers, psychologists, physicists, computer scientists, and artificial intelligence investigators among others can publish their work in one periodical that bridges the gap between neuroscience, artificial intelligence, and engineering. The journal provides research and review papers at an interdisciplinary level, with the field of intelligent systems for computational neuroscience as its focus.

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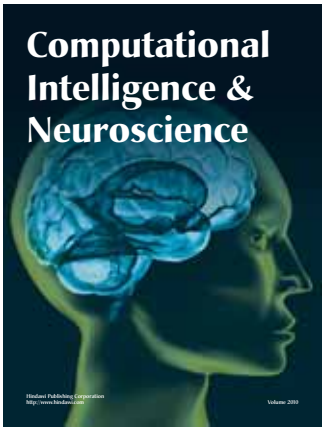

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EURASIP Journal on
Advances in Signal Processing

http://www.hindawi.com/journals/asp/

Aims and Scope

The aim of the EURASIP Journal on Advances in Signal Processing is to highlight the theoretical and practical aspects of signal processing in new and emerging technologies. Application areas include (but are not limited to) communications, networking, sensors and actuators, radar and sonar, medical imaging, biomedical applications, remote sensing, consumer electronics, computer vision, pattern recognition, robotics, fiber optic sensing/transducers, industrial automation, transportation, stock market and financial analysis, seismography, and avionics.

Indexing/Abstracting

In order to provide the maximum exposure for all published articles, the EURASIP Journal on Advances in Signal Processing is covered by many leading abstracting and indexing databases.

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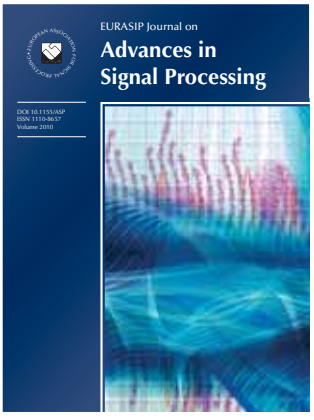

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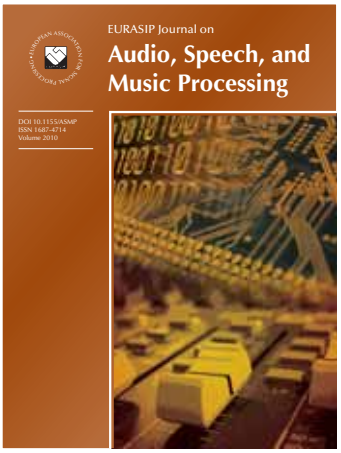
EURASIP Journal on Audio, Speech, and Music Processing

http://www.hindawi.com/journals/asmp/

Aims and Scope

EURASIP Journal on Audio, Speech, and Music Processing is a peer-reviewed, open access journal, which aims at bringing together researchers, scientists, and engineers working on the theory and applications of the processing of various audio signals, with a specific focus on speech and music.



The journal is dedicated to original research work but also allows tutorial and review articles. Articles deal with both theoretical and practical aspects of audio, speech, and music processing.

Manuscript Submission

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EURASIP Journal on
Bioinformatics and Systems Biology
http://www.hindawi.com/journals/bsb/

Aims and Scope

The overall aim of EURASIP Journal on Bioinformatics and Systems Biology is to publish research results related to signal processing and bioinformatics theories and techniques relevant to a wide area of applications into the core new disciplines of genomics, proteomics, and systems biology.

The journal is intended to offer a common platform for scientists from several areas including signal processing, bioinformatics, statistics, biology, and medicine, who are interested in the development of algorithmic, mathematical, statistical, modeling, simulation, data mining, and computational techniques, as demanded by various applications in genomics, proteomics, system biology, and more general in health and medicine.

Manuscript Submission

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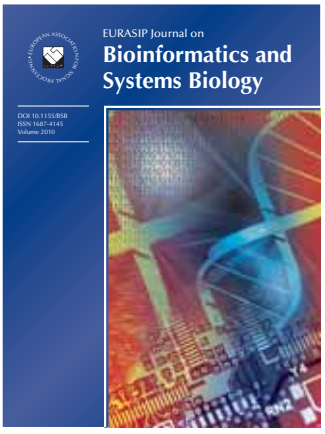

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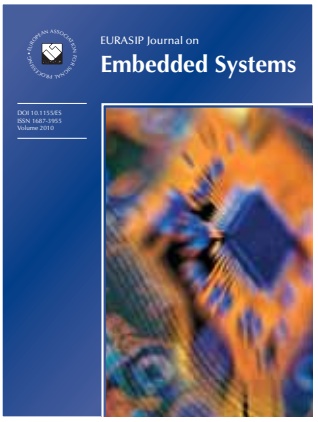
EURASIP Journal on
Embedded Systems

http://www.hindawi.com/journals/es/

Aims and Scope

EURASIP Journal on Embedded Systems is a peer-reviewed open access journal that serves the large community of researchers and professional engineers who deal with the theory and practice of embedded systems, including complex homogeneous and heterogeneous embedded systems, specification languages and tools for embedded systems, modeling and verification techniques, hardware/software tradeoffs and codesign, new design flows, design methodologies and synthesis methods, platform-based design, component-based design, adaptation of signal processing algorithms to limited implementation resources, rapid prototyping, computing structures and architectures for complex embedded systems, real-time operating systems, methods and techniques for the design of low-power systems, interfacing with the real world, and novel application case studies and experiences.



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EURASIP Journal on Image and Video Processing

http://www.hindawi.com/journals/ivp/

Aims and Scope

EURASIP Journal on Image and Video Processing is a peer-reviewed, open access journal, intended for researchers from both academia and industry, who are active in the multidisciplinary field of image and video processing. The scope of the journal covers all theoretical and practical aspects of the domain, from basic research to the development of applications.

Contributed articles on image and video processing may be focused on specific techniques, on diverse functionalities and services, within the context of various activity sectors (e.g., multimedia, medical, aerial, robotics, security, communications, and arts), or on employing diverse data formats.

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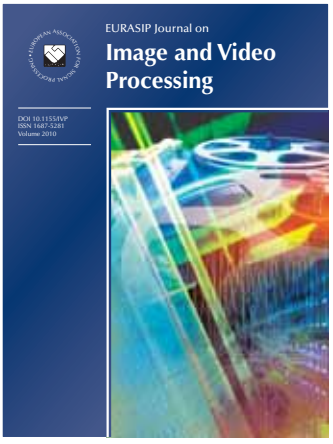

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Aims and Scope

The overall goal of the EURASIP Journal on Information Security is to bring together researchers and practitioners dealing with the general field of information security with a particular emphasis on the use of signal processing tools to enable the security of digital contents. As such, it addresses any work whereby security primitives and multimedia signal processing are used together to ensure the secure access to the data. Enabling technologies include watermarking, data hiding, steganography and steganalysis, joint signal processing and encryption, perceptual hashing, identification, biometrics, fingerprinting, and digital forensics.

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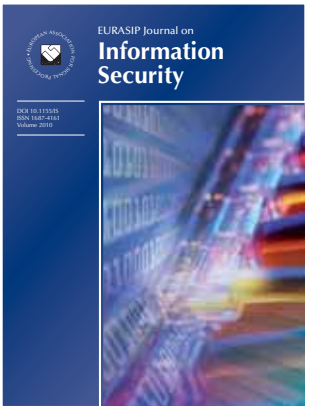

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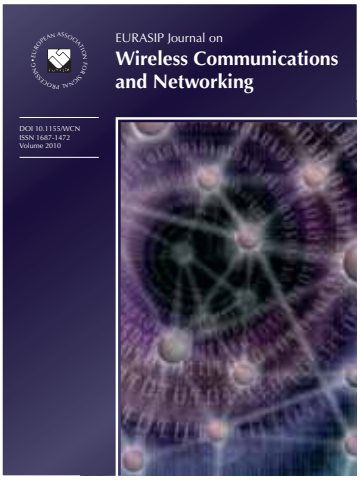
EURASIP Journal on
Wireless Communications and Networking

http://www.hindawi.com/journals/wcn/

Aims and Scope

The overall aim of the EURASIP Journal on Wireless Communications and Networking is to bring together science and applications of wireless communications and networking technologies, with emphasis on signal processing techniques and tools. Subject areas include antenna systems and design, channel modeling and propagation, coding for wireless systems, multiuser and multiple access schemes, optical wireless communications, resource allocation over wireless networks, security, authentication, and cryptography for wireless networks, signal processing techniques and tools, software and cognitive radio, wireless traffic and routing, ultra-wideband systems, vehicular networks, wireless multimedia communication, wireless sensor networks, and wireless system architectures and applications.



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Publication Speed

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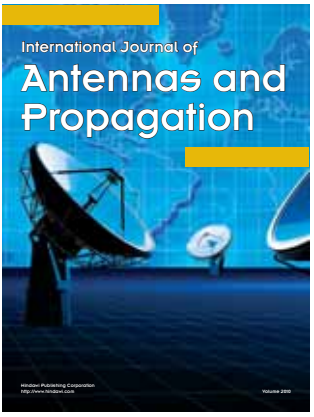
International Journal of Antennas and Propagation

http://www.hindawi.com/journals/ijap/

Aims and Scope

The overall aim of the International Journal of Antennas and Propagation is to explore emerging concepts and applications in antennas and propagation. The journal focuses on the physical link from antenna to antenna including antenna hardware and associated electronics, the nature and impact of propagation channels and measurement, prediction, and simulation methods for evaluating or designing antennas or the channel. The journal is directed at both practicing engineers and academic researchers and will highlight new ideas and challenges in antennas and propagation for both application development and basic research.



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International Journal of
Biomedical Imaging

http://www.hindawi.com/journals/ijbi/

Aims and Scope

The overall goal of the International Journal of Biomedical Imaging is to promote the research and development of biomedical imaging by publishing high-quality research articles and reviews in this rapidly growing, interdisciplinary field. Generally speaking, the scope of the journal covers data acquisition, image reconstruction, and image analysis, involving theories, methods, systems, and applications.

Indexing/Abstracting

In order to provide the maximum exposure for all published articles, International Journal of Biomedical Imaging is covered by many leading abstracting and indexing databases.

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International Journal of Digital Multimedia Broadcasting

http://www.hindawi.com/journals/ijdmb/

Aims and Scope

International Journal of Digital Multimedia Broadcasting aims to provide a high-quality and timely forum for engineers, researchers, and educators whose interests are in digital multimedia broadcasting to learn recent developments, to share related challenges, to compare multistandards, and further to design new and improved systems. Subject areas include, but are not limited to:

- Multimedia broadcasting overall system and standardization, multimedia signal compression, and coding for broadcasting
- Multimedia streaming and control, IPTV with broadcasting, multimedia content services, and digital rights management over broadcasting
- Modulation and demodulation
- Channel estimation and equalization
- VLSI design and system-on-chip implementation for multimedia broadcasting reception
- Cross-layer analysis and integration, single-chip solution, and power and spectral efficiency
- Antenna and propagation for multimedia transmission and reception
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- Quality of service and quality of experience in multimedia broadcasting

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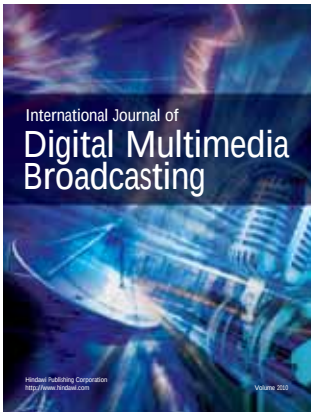

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International Journal of
Navigation and Observation

http://www.hindawi.com/journals/ijno/

Aims and Scope

The overall aim of the International Journal of Navigation and Observation is to explore emerging concepts and applications in navigation, positioning, earth observation, and related fields. The journal is directed at both practicing engineers as well as academic researchers. It will highlight new ideas and challenges in both application development and basic research, thus seeking to bridge the gap between innovation and practical implementation. Authors of manuscripts with novel contributions to the theory and/or the practice of navigation, positioning, and earth observation are encouraged to submit their contributions for consideration.

Manuscript Submission

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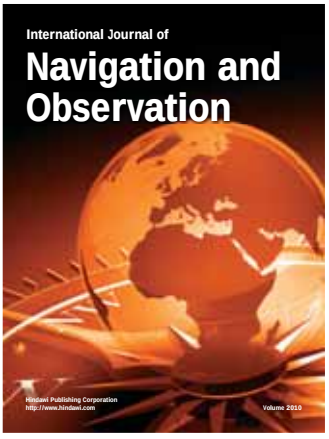

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International Journal of
Reconfigurable Computing

http://www.hindawi.com/journals/ijrc/

Aims and Scope

The aim of the International Journal of Reconfigurable Computing is to serve the large community of researchers and professional engineers working on theoretical and practical aspects of reconfigurable computing. The journal seeks to promote the use of reconfigurable computing for research, education, and applications. Original full and short papers on all aspects of reconfigurable computing, from hardware architectures and devices to custom computers and high performance systems, are encouraged for submission.

All aspects of reconfigurable computing are considered. Since the entire field is very dynamic, areas of the interest include, but are not limited to:

- Models, methods, tools, and architectures for reconfigurable computing
- Compilation, simulation, debugging, synthesis, verification, and test of reconfigurable systems
- Field programmable gate arrays and other reconfigurable technologies
- Self-adaptation and dynamic reconfiguration
- Evolvable hardware and adaptive computing
- Algorithms implemented on reconfigurable hardware
- Hardware/software codesign and cosimulation with reconfigurable hardware
- High performance reconfigurable computing
- Reconfigurable computing education

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International Journal of
Telemedicine and Applications

http://www.hindawi.com/journals/ijta/

Aims and Scope

The overall aim of the International Journal of Telemedicine and Applications is to bring together science and applications of medical practice and medical care at a distance as well as their supporting technologies such as computing, communications, and networking technologies with emphasis on telemedicine techniques and telemedicine applications. Telemedicine is an information technology that enables doctors to perform medical consultations, diagnoses, and treatments, as well as medical education, away from patients. International Journal of Telemedicine and Applications will highlight the continued growth and new challenges in telemedicine, applications, and their supporting technologies, for both application development and basic research.

Manuscript Submission

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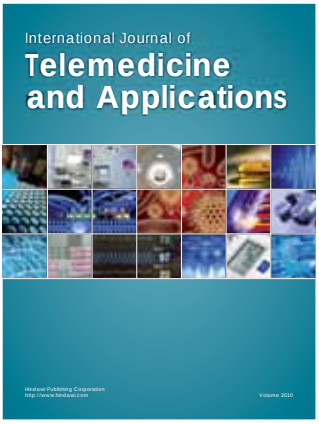

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Journal of

Computer Systems, Networks, and Communications

http://www.hindawi.com/journals/jcsnc/

Aims and Scope

Journal of Computer Systems, Networks, and Communications is dedicated to report the state-of-the-art research in the most important areas of information technology that are computer systems, networks, and communications.

Subject areas covered by the journal include, but are not limited to:

- Cognitive, smart and software radios, computer and network software/storage
- Computer architecture and telecommunications, digital signal processing, multimedia and DSL-based applications, information theory, information systems, integrated circuitry, and voice applications
- Intelligent computer, network systems, Internet and web technologies, mobile and ubiquitous computing, network coding/cooperation, optical systems, communications, and networking
- PAN/LAN/MAN/WAN and high speed packet data access
- Peer-to-peer, QoS and routing, and switching, satellite and mobile cellular communications, security, privacy, and encryption
- Sensor, adhoc and mesh networks, and vehicle-to-vehicle communications
- Wireless communications and networking

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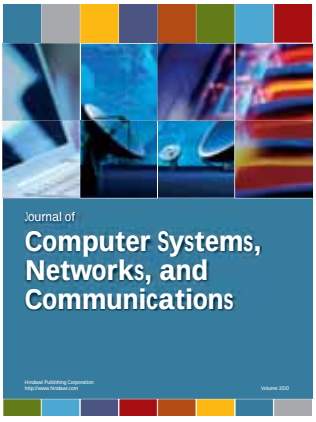

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Aims and Scope

VLSI Design is a peer-reviewed, open access journal, which presents state-of-the-art papers in VLSI design, computer-aided design, design analysis, design implementation, simulation, and testing. Topics relating to both theory and applications are discussed. The journal's scope also includes papers that address technical trends, pressing issues, and educational aspects in VLSI Design.

The journal provides a dynamic, high-quality, international forum for original papers and tutorials by academic, industrial, and other scholarly contributors in VLSI Design.

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