**Newsletter, Volume 19, Number 1, March 2008**

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Welcome to the first 2008 issue of the EURASIP Newsletter.

This issue is distributed to all current EURASIP members as well as to all 2007 members, who have not yet renewed their membership. I warmly invite them again to continue to support our Association and enjoy the offered benefits, by visiting www.eurasip.org and renewing their membership. I would like to take this opportunity to mention that our membership server has been relocated to Athens and renewed completely by EURASIP Officer Aggelos Pikrakis and his team (please note that at the same time our correspondence address has also been changed). * I sincerely wish to thank Aggelos and his co-workers for their efforts in designing and implementing the new membership server!

This newsletter contains a number of Editor-in-Chief reports from some of our journals. We aim to regularly publish such reports, to provide a better view on how our journals are performing and to display their plans for the future.

This newsletter also contains a pre-announcement of EUSIPCO-2010. In a recent EURASIP AdCom meeting, it was decided that our next EUSIPCO (after the currently planned EUSIPCO-08 in Lausanne and EUSIPCO-09 in Glasgow) will be organized in Aalborg (Denmark), under the General Chairmanship of Prof. Søren Holdt Jensen. I wish to congratulate Søren with this selection, thank him for submitting his bid, and wish him a successful organization!

Finally, I would again like to encourage everyone to support our Association, by participating in our activities, by contributing to our journals as authors, editors and reviewers, and by writing to us and expressing ideas and suggestions. EURASIP will certainly benefit greatly from your comments and feedback.

Marc Moonen
President
Obituary
Hans-Wilhelm Schüßler

Hans-Wilhelm Schüßler deceased on December 9, 2007. Although suffering already for a while from the load of his almost 80 years, he still took part in scientific and private meetings and discussions and worked on a book edition until recently. So, all of us, his relatives, friends, former students, and colleagues, were shocked by this sad message.

H. W. Schüßler was born in Dortmund, Germany, on February 28, 1928. After school and war times, he became an electrician. The interest in practical electrical technology never left him, but he soon recognized that there was more. So he continued his education, graduated as an engineer at (nowadays) Fachhochschule Dortmund and then went on to RWTH Aachen University, where he received the diploma (Dipl.-Ing.), the Ph.D. (Dr.-Ing.), and his Habilitation, in 1954, 1958, and 1961, respectively. Only two years later, he became a Professor at the University of Karlsruhe, before reaching his final destination: In 1966, he followed the offer to obtain a chair and lead the “Institut für Nachrichtentechnik” (INT, in English: Institute for Tele-Communications) at the University of Erlangen-Nürnberg, where he stayed until he retired in 1993.

This was a final destination in more than one sense: A new faculty of engineering was to be founded within a classical university—not a frequent event in Germany; so, he saw the chance to help and create something truly innovative, and he fought all the fights necessary to accomplish this. A new chair was to be installed, with uncommon structures and methods of leadership—and a new field of research to be chosen freely. Following own plans and absorbing ideas from his various visits to US universities, he became one of the first scientists worldwide who recognized the potential of digital technology. A long time before industry got interested in this field, his INT became a synonym for research on digital filters, paralleled around 1968–1980 in Europe by only very few groups. Beside theory and design of digital filters, H.W. Schüßler always observed the practical side: “Only if you realize your ideas, you will see the value of the theory—and new questions!” Later, the field was broadened: Theory, design, implementation, and application of general digital signal-processing methods, especially in communications, became the INT topic. Different from other institutes of German universities in those days, H. W. Schüßler’s INT did not consist only of one professor as its head and many Ph.D. students—following the insight: “Alone, I cannot cover the field!,” he gathered two associate professors and two assistant professors around him, thus heading a group of groups—and truly leading them, by his ideas and his exemplary style of work and discussion. Beyond, the INT doors were always open for visitors, and numerous colleagues from the US, from all Europe, and from other parts of the world came to work there for a shorter or longer time, some of them making Erlangen their “second home” and further enriching the fruitful work at INT. Disregarding the candidates of the other INT professors, H. W. Schüßler himself led 49 students to their Dr.-Ing. degree, of course many of them paid by industry and DFG research grants. Six of his alumni reached their “Habilitation,” twelve of the former students became professors
themselves, others became company founders, and in many German advanced industry groups, Schüßler alumni initiated and developed digital technology. Innumerable students, on their way to their Dipl.-Ing., learned about circuits, signals and systems, telecommunications, and digital signal processing from his broad and deep lectures, deepened even more by his text books.

After such a tremendous success, it is self-evident that H.W. Schüßler received numerous honours, among which only a few should be named: IEEE’s “Centennial Medal” (1984) and “Kilby Award” (2002) are worth mentioning as well as VDE-ITG’s “Karl-Küpfmüller-Preis” (1992) and “Ring of Honour” (1998) and the “Fundamental-Research Award” of the Eduard-Rhein-Foundation (1993); he received the honorary doctorates of the Technical Universities of both München and Wien, in 1994 and 1995, and since 1990, he was a member of the Bavarian Academy of Science.

Being known and esteemed world-wide, he did of course receive various offers to take other chairs and positions both with universities and industry. But he refused, and even after retiring, he stayed in Erlangen. Together with his wife Helga, who also worked very actively and successfully as a professor at the same university, he had become a Franconian: They both loved the region of Franken in Northern Bavaria, they showed this love and their gratefulness for good and fruitful years by founding the “Hans-Wilhelm & Helga Schüßler Fund,” rendering many international research visits possible, and they became and stayed members of the circle of personal friendships among H. W. Schüßler’s former students and INT visitors.

These friends now sadly have to say good bye, but they hope for a continued friendship with Helga Schüßler, personally as well as in remembrance of her husband.

W. Mecklenbräuker, Vienna
P. Vary, Aachen
P. Steffen, Erlangen
U. Heute, Kiel
EURASIP Secretary-Treasurer’s Report  
1st July, 2006–30th September, 2006

On 1st July 2006 the opening balance, in Euros (€), was as specified in the table below. The currency conversion considered was: 1 CHF = 0.60319€

<table>
<thead>
<tr>
<th>Opening balance (1st July, 2006)</th>
<th>€</th>
<th>€</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current accounts:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EURO account</td>
<td>39974,88</td>
<td></td>
</tr>
<tr>
<td>CHF account</td>
<td>14117,64</td>
<td></td>
</tr>
<tr>
<td><strong>total</strong></td>
<td>54092,52</td>
<td></td>
</tr>
<tr>
<td><strong>Savings accounts:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EURO Money Market account</td>
<td>33369,08</td>
<td></td>
</tr>
<tr>
<td><strong>total</strong></td>
<td>33369,08</td>
<td></td>
</tr>
<tr>
<td><strong>Total available</strong></td>
<td></td>
<td>87461,60</td>
</tr>
<tr>
<td><strong>Loans to be reimbursed:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EUSIPCO ‘2006</td>
<td>15000,00</td>
<td></td>
</tr>
<tr>
<td><strong>Pending payments:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elsevier funding</td>
<td>10000,00</td>
<td></td>
</tr>
<tr>
<td>Hindawi award funding</td>
<td>2000,00</td>
<td></td>
</tr>
<tr>
<td><strong>total</strong></td>
<td>12000,00</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>114461,60</td>
</tr>
</tbody>
</table>

The main EURASIP account movements during the financial period considered are documented in the following two tables, for income and expenses, respectively:

<table>
<thead>
<tr>
<th>Income:</th>
<th>€</th>
<th>€</th>
</tr>
</thead>
<tbody>
<tr>
<td>Membership (incl. Journal subscriptions)</td>
<td>274,26</td>
<td></td>
</tr>
<tr>
<td>Donations/review charges:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hindawi (awards)</td>
<td>1985,00</td>
<td></td>
</tr>
<tr>
<td>Vienna</td>
<td>336,91</td>
<td></td>
</tr>
<tr>
<td>Savings account</td>
<td>118,08</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>2714,25</td>
<td></td>
</tr>
</tbody>
</table>
### Expenses:

<table>
<thead>
<tr>
<th>Expense Description</th>
<th>€</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elsevier (various concepts)</td>
<td>502,48</td>
</tr>
<tr>
<td>Hindawi (various concepts, incl. Newsletter)</td>
<td>13937,54</td>
</tr>
<tr>
<td>EURASIP Awards</td>
<td>642,12</td>
</tr>
<tr>
<td>Taxes, bank costs, interests, currency conversions</td>
<td>27,42</td>
</tr>
<tr>
<td><strong>Total expenses</strong></td>
<td>15109,56</td>
</tr>
</tbody>
</table>

### Loans

<table>
<thead>
<tr>
<th>Loan Description</th>
<th>€</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUSIPCO ’2008</td>
<td>15000,00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>30109,56</td>
</tr>
</tbody>
</table>

The closing balance on the 30th of September 2006 is as specified in the table below:

### Closing balance (30th September, 2006)

<table>
<thead>
<tr>
<th>Account Description</th>
<th>€</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current accounts:</td>
<td></td>
</tr>
<tr>
<td>EURO account</td>
<td>12307,87</td>
</tr>
<tr>
<td>CHF account</td>
<td>14271,26</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>26579,13</td>
</tr>
<tr>
<td>Savings accounts:</td>
<td></td>
</tr>
<tr>
<td>EURO Money Market account</td>
<td>33487,16</td>
</tr>
<tr>
<td><strong>Total available</strong></td>
<td>60066,29</td>
</tr>
</tbody>
</table>

### Loans to be reimbursed:

<table>
<thead>
<tr>
<th>Loan Description</th>
<th>€</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUSIPCO ’2006</td>
<td>15000,00</td>
</tr>
<tr>
<td>EUSIPCO ’2008</td>
<td>15000,00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>30000,00</td>
</tr>
</tbody>
</table>

### Pending payments

<table>
<thead>
<tr>
<th>Payment Description</th>
<th>€</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elsevier</td>
<td>10000,00</td>
</tr>
<tr>
<td></td>
<td>10000,00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>100066,29</td>
</tr>
</tbody>
</table>
EURASIP Secretary-Treasurer’s Report
1st October, 2006–30th September, 2007

On 1st October 2006 the opening balance, in Euros (€), was as specified in the table below. The currency conversion considered was: 1 CHF = 0.60319€

<table>
<thead>
<tr>
<th>Opening balance (1st October, 2006)</th>
<th>€</th>
<th>€</th>
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</thead>
<tbody>
<tr>
<td>Current accounts:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EURO account</td>
<td>12307,87</td>
<td></td>
</tr>
<tr>
<td>CHF account</td>
<td>14271,26</td>
<td></td>
</tr>
<tr>
<td>total</td>
<td>26579,13</td>
<td></td>
</tr>
<tr>
<td>Savings accounts:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EURO Money Market account</td>
<td>33487,16</td>
<td></td>
</tr>
<tr>
<td>Total available</td>
<td></td>
<td>60066,29</td>
</tr>
<tr>
<td>Loans to be reimbursed:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EUSIPCO ’2006</td>
<td>15000,00</td>
<td></td>
</tr>
<tr>
<td>EUSIPCO ’2008</td>
<td>15000,00</td>
<td></td>
</tr>
<tr>
<td>total</td>
<td>30000,00</td>
<td></td>
</tr>
<tr>
<td>Pending payments:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elsevier</td>
<td>10000,00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10000,00</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>100066,29</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Income:</th>
<th>€</th>
<th>€</th>
</tr>
</thead>
<tbody>
<tr>
<td>Membership (incl. Journal subscriptions)</td>
<td>52414,86</td>
<td></td>
</tr>
<tr>
<td>Donations/review charges:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elsevier</td>
<td>10000,00</td>
<td></td>
</tr>
<tr>
<td>EUSIPCO ’2006</td>
<td>20000,00</td>
<td></td>
</tr>
<tr>
<td>Savings account</td>
<td>863,99</td>
<td></td>
</tr>
<tr>
<td>Total income</td>
<td>83278,85</td>
<td></td>
</tr>
<tr>
<td>Reimbursed loans:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EUSIPCO ’2006</td>
<td>15000,00</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>98278,85</td>
<td></td>
</tr>
</tbody>
</table>
Expenses: € €

Elsevier (various concepts) 118,71
Hindawi (various concepts, incl. Newsletter) 18467,89
EURASIP Awards 1580,24
Web administration 2331,69
Administrative expenses 8855,53
Taxes, bank costs, interests, currency conversions 21,84

Total expenses 31375,90
Loans
EUSIPCO ’2007 15000,00
Total 46375,90

The closing balance on the 30th of September 2007 is as specified in the table below:

Closing balance (30th September, 2007) € €

Current accounts:
Fortis account 10000,00
Credit Swiss EURO account 58223,46
Credit Swiss CHF account 1854,79
total 70078,25

Savings accounts:
Credit Swiss EURO Money Market account 41891,00

Total available 111969,25
Loans to be reimbursed:
EUSIPCO ’2007 15000,00
EUSIPCO ’2008 15000,00
total 30000,00

Total 141969,25
EURASIP’s 2010 European Signal Processing Conference (EUSIPCO-2010) will be held from August 23–28, 2010, in Aalborg, Denmark, and will be organized by the Department of Electronic Systems, Aalborg University. The conference organization will be undertaken by Søren Holdt Jensen, Mats Viberg, Jan Larsen, Bastiaan Kleijn, Marc Moonen, Alfred Hanssen, Visa Koivunen, Lars Kai Hansen, Søren Vang Andersen, Børge Lindberg, Zheng-Hua Tan, Joachim Dahl, and Mads G. Christensen.

More information will follow at eusipco2010.org or can be obtained by contacting the General Chairman Søren Holdt Jensen, shj@es.aau.dk.

The city of Aalborg welcomes you

Aalborg is Denmark’s fourth largest city with over 163,000 inhabitants, and the largest metropolitan area in the North Jutland Region. The city is attractively located on the banks
of the Lim Fjord and a popular meeting place for visitors from many countries. Aalborg has become a leading high-technology region at the forefront of innovation, offering excellent facilities and company domiciles, backed up by a well developed infrastructure and outstanding research and development facilities.

The Vikings founded the city of Aalborg in the 7th century at the narrowest banks of the Lim Fjord. The Viking settlement at “Lindholm Høje” just North of Aalborg was extremely influential in the Viking Era’s international trade patterns. Today, “Lindholm Høje” is one of Scandinavia’s largest and most beautiful monuments from this era in history. In “Old Aalborg,” trade and wealth have set their mark and many of the old buildings have been preserved as natural elements in the city scene. Jump straight into modern art and architecture at one of Scandinavia’s most fascinating museums of modern art, Nordjyllands Kunstmuseum. This great museum was designed by the world-famous, Finnish architect Alvar Aalto and built 1968–72. Being the Danes’ preferred holiday region, North Denmark offers the perfect setting for combining business with pleasure. Its rich choice of fairytale castles, museums, superb restaurants, intimate seaside resorts and the relaxed and easy going attitude of the Danes themselves, guarantee a memorable stay. For more information on Denmark and the city of Aalborg, visit www.visitdenmark.com and www.visitaalborg.com.
EURASIP Journal on Embedded System

**JES after its first two years**

It is now slightly more than three years since Professors Marc Moonen, Markus Rupp and myself, in some after hours of EU-SIPCO 2004, had initial talks on establishment of EURASIP Journal on Embedded Systems (JES). I assumed the responsibility to be the founding Editor-in-Chief with a quite formidable challenge ahead—starting a journal from the scratch. Although challenging, the task was at the same time very interesting and even exciting. After specifying the scope of the journal, a difficult task of selecting potential members of editorial board and personal communication with a large number of colleagues around the world started. It was at the same time exciting to know that the big majority of colleagues were very enthusiastic and supportive and readily accepted to take part in creation of the JES. I will always regret that some had to decline due to their high workload and commitments yet being supportive for the idea of JES.

EURASIP JES has a goal of becoming a leading journal in the area of embedded systems. Although initiated by EURASIP, the Journal is truly international, as it has succeeded to attract authors worldwide and also has a truly international editorial board. I am, together with the editorial board members, ready to work on a new step in Journal development, which will have as the major goals the increase of its impact on research community, extension of its reach and recognition by the readers and potential authors. Open access policy assumes bigger visibility, but also bigger responsibility.

**Special Issues**

The main decision we accepted from the very beginning was a departure from traditional journals by adopting a policy of targeted special issues, to be the driving force of the Journal. In fact special issues addressing topics of high interest for research and industry community have been the major vehicle that attracted authors to submit high quality manuscripts. The area of embedded systems is an exciting area, it is expanding and changing rapidly in time. In the first two years EURASIP JES has covered some of the key fundamental aspects of embedded systems, but also the important application areas, which are obviously a driving force for new developments in formal and theoretical domain.

2006 and 2007 were the years of the first association of the Journal with scientific workshops and conferences. In 2006 altogether 22 articles have been published, 5 in a regular issue and 17 in two special issues. The momentum created in 2006 has accelerated in 2007 resulting in 62 articles, 10 in a regular issue and 52 in the 2007 special issues:

- Dynamically Reconfigurable Architectures
- Embedded Vision System
- Embedded Digital Signal Processing Systems
- Embedded Systems for Portable and Mobile Video Platforms
- Embedded Systems for Intelligent Vehicles
- Synchronous Paradigm in Embedded Systems

At this moment four special issues are being prepared for publication in 2008, while two more have been announced:
- C-Based Design of Heterogeneous Embedded Systems
- Reconfigurable Computing and Hardware/Software Codesign
- Embedded System Design in Intelligent Industrial Automation
- Operating System Support for Embedded Real-Time Applications
- Model-driven High-level Programming of Embedded Systems
- Design and Architectures for Signal Image Processing

**Review Process**

The review process was by and large successfully and efficiently performed for the large majority of articles. The average review time in 2006 was 142 days, and in 2007 was 161 days, which is partly due to the longer due dates for special issues. Presently we are aiming to a review process rounded up in 100 days. The relatively high acceptance rate can be supported by two facts: high quality of submitted papers and submission to the special issues with more targeted authors’ pool.

<table>
<thead>
<tr>
<th></th>
<th>2007</th>
<th>2006</th>
<th>2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of submissions</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acceptance rate (%)</td>
<td>34 (so far)</td>
<td>58</td>
<td>25</td>
</tr>
<tr>
<td>Average time between submission and revision</td>
<td>161</td>
<td>142</td>
<td>90</td>
</tr>
</tbody>
</table>

**Top downloads**

Finally, I would like to thank all those who submitted their manuscripts to JES for their effort regardless of successful acceptance. From those whose papers have been published, I am providing the list of five papers that attracted most attention in 2007 in terms of number of downloads and at the same time congratulate their authors:

2. *Modular Inverse Algorithms Without Multiplications for Cryptographic Applications*, Laszlo Hars
4. *An Overview of Reconfigurable Hardware in Embedded Systems*, Philip Garcia, Katherine Compton, Michael Schulte, Emily Blem, and Wenyin Fu
5. *A Massively Parallel Face Recognition System*, Olli Lahdenoja, Mika Laiho, Janne Maunu, and Ari Paasio

_Zoran Salcic_
EURASIP Journal on Information Security

**EIC’s reflections**

When around 18 months ago I was asked to help EURASIP and Hindawi to launch a new Journal on Information Security (JIS, http://www.hindawi.com/journals/is) I was a bit skeptical. It is my general conviction, in fact, that there are too many journals around, with an undesirable trend towards a diminishing quality of published papers. If possible, in the EURASIP JIS case, the situation was even worse. As stated in the aims and scope section of the journal, JIS 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. Unfortunately (for the future of EURASIP JIS, of course), several new publications had just been launched in the information security field, some of which with very prestigious institutions behind. Why should I have to spend my busy time in this new initiative? A more careful thought about the EURASIP proposal, however, revealed at least three factors that could make, and actually make, EURASIP JIS a different and worth initiative.

**Article-by-article electronic publication**

EURASIP JIS is published electronically on an article-by-article basis, rather than on an issue-by-issue basis. There are a number of important benefits to this, including faster publication speeds, easier access, and the ability to read articles in a preliminary format as soon as they have been accepted for publication.

**Open access policy**

This is a brand new novelty in the scientific editorial arena (especially for engineering and technical journals). In the open access model, the publication costs of an article are paid from an author’s research budget, or by their supporting institution, in the form of Article Processing Charges. These Article Processing Charges replace subscription charges and allow publishers to make the full-text of every published article freely available to all interested readers. Whereas at first sight this paradigm shift may seem a strange one (and indeed the debate about the appropriateness of the open access model is a never-ending one, with good arguments on both sides), it undoubtedly offers several advantages. First of all open access provides immediate, worldwide, barrier-free access to the full-text of all published articles. Readers are allowed to view, download, print, and redistribute any article, enabling far greater distribution of an author’s work than the traditional subscription-based publishing model. In addition, authors who publish in our open access journals retain the copyright of their work, which is released under a Creative Commons Attribution License, enabling the unrestricted use, distribution, and reproduction of an article in any medium, provided that the original work is properly cited.
Pushing for a higher quality in experimental research

It so happens, that the electronic nature of EURASIP JIS, is a unique opportunity to push (or at least trying to push) a revolution in the way experimental research is handled and reported in the signal processing community. As it is well known, reproducibility lies at the very core of the scientific method: an experiment or test is reproducible if it can be replicated independently from researchers that conducted it in the first place. When an experiment is successfully reproduced, chances are that its flaws are reduced. This is the reason why in certain scientific disciplines such as biology, physics or chemistry, great attention is paid not only to the experimental part, but also to experiment replication. Unfortunately, even though the signal processing research community widely recognizes the importance of the experimental part of any work, very little has been done towards fully reproducible signal processing. In many papers, algorithms are claimed to be superior without providing enough empirical support, while in others data supplied in the experimental section are so vague or scarce that reproducibility is simply chimerical. It is my firm belief that this type of research should be made academically rewarding as it is in most scientific areas, by creating proper forums where experimental research can be published, and in my view EURASIP JIS is a perfect opportunity to create such a forum.

18 months later, I am here to see whether the decision to accept EURASIP’s invitation was a good one, and whether the EURASIP JIS succeeded to achieve at least some of its initial goals, and most of all, if it caught the attention of that part of the signal processing community dealing with the use of signal processing techniques and methodologies for security applications. Indeed attracting good submission was a difficult task. However thanks to the efforts of the editorial board and to the launching of several special issues on hot topics, we managed to publish the first issues in late 2007. So far 12 papers have been published and other 10 are ready to be published in the next few weeks. I am genuinely satisfied by the quality of all the papers that have been accepted, a condition that is central to the further development of the journal and its affirmation as a premier forum where researchers can present the result of their studies to colleagues all over the world.

Reproducible research paradigm

I have to admit that the reproducible research paradigm has not taken off as desired. The whole editorial board worked very hard to ensure that the experimental part of the accepted papers satisfies the most elementary rules of experiment reproducibility, and I am proud of the quality of the experimental part of the published papers. Nevertheless, it is my impression that the research community has not realized the big opportunity EURASIP JIS offers them. In only very few cases the papers are accompanied by the software implementing the proposed algorithms, and no completely experimental paper, aiming at a thorough evaluation of the performance of existing algorithm or at confuting the results reported elsewhere has been submitted. It will be my personal goal for 2008 to multiply the efforts to promote EURASIP JIS as the leading journal for reproducible research in information security. I hope readers and researchers will appreciate these efforts and sustain the journal in this ambitious goal.

Mauro Barni
EURASIP Conferences and Workshops Support

EURASIP aims to support the organization of conferences and workshops in the area of signal processing, by providing guidelines and recommendations for successful meetings, by helping with organizational issues, and by advertising these meetings through its channels, namely the EURASIP Newsletter, the EURASIP Website, the EURASIP Journals, as well as by direct email to its members. When explicitly requested by the organizers, EURASIP also provides financial support in the form of a loan, which is to be returned to EURASIP after the meeting has taken place. In 2007 EURASIP supported more than 30 conferences and workshops, where the number of participants varied from 50 to 700.

EURASIP support implies that the organizers are committed to:

- Maintaining a high scientific quality through proper peer-review of submitted papers, with monitored acceptance/rejection rates, as well as through best-effort plagiarism and self-plagiarism detection.
- Making the conference/workshop proceedings freely available, preferably in the EURASIP open library (www.eurasip.org).
- Offering EURASIP members a reduced conference/workshop registration fee.
- Including the EURASIP logo in the call for papers and in all advertisement.
- Distributing EURASIP promotional flyers to conference/workshop participants.
- Providing a meeting report, for publication in the EURASIP Newsletter.

Conference and workshop organizers wishing to obtain EURASIP support are invited to contact Markus Rupp, EURASIP AdCom Event Coordinator (event@eurasip.org).
Report of EUSIPCO 2007
4–7 September, 2007 in Poznań, Poland

The 2007 European Signal Processing Conference (EUSIPCO-2007) was the fifteenth in a series of conferences promoted by EURASIP, the European Association for Signal Processing. The conference was organized by the Chair of Multimedia Telecommunications at Poznań University of Technology, Faculty of Electronics and Telecommunications and Microelectronics in conjunction with the PTETiŚ Society in the Conference Center at the Poznań International Fair.

EUSIPCO (European Signal Processing Conference) is now recognized as one of the premier signal processing conferences, attracting delegates and papers from all over the world. The venues of consecutive conferences are: Lausanne, Switzerland (1980); Erlangen, Germany (1983); Hague, the Netherlands (1986); Grenoble, France (1988); Barcelona, Spain (1990); Brussels, Belgium (1992); Edinburgh, UK (1994); Trieste, Italy (1996); Rhodes, Greece (1998); Tampere, Finland (2000); Toulouse, France (2002); Vienna, Austria (2004); Antalya, Turkey (2005); Florence, Italy (2006).


The conference had 764 submissions of papers from 54 countries. All papers were peer reviewed in a double blind manner by an international TPC of 232 members. Finally, 552 persons participated in the conference. Conference highlights were six plenary lectures and two EURASIP Fellow inaugural lectures as well as an extremely rich social programme including an afternoon guided tour through the city of Poznań with all participants.

Marek Domański
Chairman
Poznań University of Technology
CROWNCOM 2007 was held in Orlando, Florida, USA, from July 21–August 2, 2007. Even though this was only the second conference in this series, CROWNCOM 2007 already showed signs of a top tier technical meeting dealing with all aspects of cognitive radio oriented wireless networking and communications. The technical program was very strong including submitted and invited papers, special sessions, panel discussions, keynote speeches and tutorials.

The inter-disciplinary nature of CROWNCOM 2007 can be recognized by the fact that it was technically sponsored by the IEEE ComSoc, IEEE VTS, IEEE MTT-S, EURASIP, CREATE-NET, ICST and Stevens Institute of Technology. Stevens Institute of Technology’s Center for Intelligent Networks (iNETS) also provided financially sponsorship for the Best Paper Awards.

The conference hosted three internationally recognized experts as keynote speakers. Dr. Joseph Mitola III, Consulting Scientist at MITRE Corporation gave a keynote talk on the role of cognition and its applications in future wireless communication systems. Dr. Robert O’Dea, Motorola Fellow, Motorola Inc. presented his views on cognitive radios from an industry’s perspective. He highlighted the different views on cognition. Dr. Victor Lawrence, Associate Dean and Director of iNETS, Stevens Institute of Technology, talked about the importance of cognitive networks in the military, FCC policies, etc. There were lively discussions at the end of each keynote talk.

The technical program included 78 accepted, peer-reviewed papers covering a broad range of research issues. These papers were organized into 18 technical sessions, which included one special session on the fundamental theory of dynamic spectrum access organized by Dr. Ananthram Swami (US Army Research Labs) and Dr. Qing Zhao (University of California Davis), three sessions on spectrum sensing, two sessions on resource allocation, two sessions on cognitive radio design, two sessions on physical layer issues, three work-in-progress sessions, and one session each on interference, MAC, channel assignment and MAC, platforms and testbeds, and applications, security, and policies. Selected accepted papers will appear in an ACM MONET 2008 special issue.

The technical program included 11 invited papers, 53 accepted (out of 88 submissions) full papers, and 14 work-in-progress short papers. Every submitted paper was reviewed by at least three independent reviewers.

CROWNCOM 2008 will be held in Singapore from May 15–17, 2008. We wish them our very best for another successful conference.

R. Chandramouli, Stevens Institute of Technology
Fred Martin, Motorola
General Co-Chairs CROWNCOM 2007
The event was supported by the International Speech Communication Association (ISCA). 133 papers by 303 authors from 32 countries were published in the Proceedings of SPECOM ’2007. The number of participants of the Conference who registered online was 128 with additional 53 visitors made on-site registration. 8 papers had keynote or invited status and were scheduled for plenary presentation. The rest of the papers were assigned to 13 parallel sessions (5 oral sessions and 8 poster sessions).

The main topics of SPECOM ’2007 were:

- Speech signal coding and decoding; multi-channel transmitted speech intelligibility; speech information security.
- Speech production and perception modeling.
- Automatic processing of multilingual, multimodal and multimedia information.
- Linguistic, para- and extralinguistic communicative strategies.
- Development and testing of automatic voice and speech systems for speaker verification; speaker psychoemotional state and native language identification.
- Automatic speech recognition and understanding systems.
- Language and speech information processing systems for robotechnics.
- Automated translation systems.
- New information technologies for spoken language acquisition, development and learning.
- Text-to-speech conversion systems.
- Spoken and written natural language corpora linguistics.
- Multifunctional expert and information retrieval systems.
- Future of multi-purpose and anti-terrorist speech technologies.

Rotmonga Potapova
Report on the 26th Picture Coding Symposium (PCS ’2007) November 7–9, 2007, in Lisbon, Portugal

The 26th Picture Coding Symposium has been organized by Instituto de Telecomunicações, Instituto Superior Técnico, on November 7–9, 2007, in Lisbon-Portugal. Around 280 papers from 35 countries have been submitted. All papers were peer-reviewed and 140 papers were accepted. There were also 4 invited lectures and 15 panel position statements. The conference was attended by 220 participants. One key feature of PCS is the single track organization of the technical sessions. This allows more in depth discussions among all the participants, since they are more time together. A high level of attendance was registered during the three days of the symposium. This year’s edition of the Picture Coding Symposium introduced three novelties with respect to previous editions. A Best Paper Award session was created, in which 4 candidate papers previously chosen by the Steering Committee were presented. At the end of that session the Steering Committee voted to choose the Best Paper: “Generalized Lifting for Sparse Image Representation and Coding,” by Julio Rolon and Philippe Salembier, UPC, Spain. The second novelty was the creation of a Best Reviewer Award, won by Mr. Tobias Oelbaum, to emphasize the importance of the reviewers’ work. The third novelty was that authors had to formally reply to reviewers stating how their comments were addressed in the revised paper versions. Only then did the Organizing Committee finally accept the paper.

The technical program featured four invited lectures: “H.264/AVC and its Extensions: How Close is this Family?,” by Dr. Anthony Vetro from Mitsubishi Electric Research Labs; “From Picture Coding to Image Understanding: Finding the Object of Interest,” by Prof. Tsuhan Chen from Carnegie-Mellon University; “DCT, Wavelets and X-lets: The Quest for Image Representation, Approximation and Compression,” by Prof. Martin Vetterli, from the Ecole Polytechnique Fédérale de Lausanne and the University of California at Berkeley; and “Efficient Representation of Sound Images: Recent Developments in Parametric Coding of Spatial Audio,” by Prof. Jürgen Herre from the Fraunhofer Institute for Integrated Circuits. There were also three panels, addressing the problems of video content protection, chaired by Prof. Edward Delp, from Purdue University, the trends and challenges of distributed video coding, chaired by Prof. Touradj Ebrahimi from the the Ecole Polytechnique Fédrale de Lausanne, and whether multimedia really represents a world of possibilities or not, chaired by Prof. Alan Hanjalic from Delft University of Technology.

The two next editions of PCS (with a periodicity of 18 months) are scheduled for Chicago, USA, chaired by Prof. Edward Delp, from Purdue University, in the spring of 2009, and Japan, possibly in Nagoya, chaired by Prof. Masayuki Tanimoto, from Nagoya University, in the fall of 2010.

Fernando Pereira, Paulo Lobato Correia, Luís Ducla Soares
PCS ’2007 Organizing Committee

The first DASIP workshop (Workshop on Design and Architectures for Signal and Image Processing) took place in Grenoble, France, November 27–29th, 2007. The workshop was a great success and all the attendees have enjoyed the event. There have been many fruitful discussions during the oral and poster sessions and also during the lunch. 60 papers were submitted from 15 countries (France, Germany, Poland, Belgium, Denmark, Switzerland, Scotland ...) and 41 were accepted. For the first edition the acceptance rate was 68%. 25 regular presentations and 16 posters were presented. The workshop program proposed 3 keynotes, 8 regular sessions, 1 special session dealing with European projects, and 2 poster sessions. 98 people have participated to the workshop coming from Europe for 20% (mainly Germany, Belgium, Scotland, and Switzerland) and from France for 80%. These percentages are explained by the French roots of the workshop and we hope to reach a more balanced distribution next years. 64% of the attendees were coming from universities, 31% from industries and 5% from research organizations. The next edition of DASIP will take place in Bruxelles, Belgium, November 24–26th, 2008. The committees for the DASIP 2008 edition are

General chair: Dragomir Milojevic, University of Bruxelles, Belgium
General Vice chair: Marco Mattavelli, EPFL, Switzerland
Program chairs: Bertrand Granado, ETIS-ENSEA, France and Tughrul Arslan University of Edinburgh, Scotland

A special issue in the EURASIP Journal on Embedded Systems (http://www.hindawi.com/journals/es/osi.html) addressing the topics of the DASIP conference is currently opened.
## Calendar of Events

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<tr>
<th>Year</th>
<th>Date</th>
<th>Event</th>
<th>Location</th>
<th>EURASIP Involvement</th>
<th>Chairperson/Information</th>
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<tr>
<td>2008</td>
<td>March 18–20</td>
<td>International Symposium on Signal Processing and its Applications (WoSPA 08)</td>
<td>Sharjah, UAE</td>
<td>Cooperation</td>
<td>B. Boashash <a href="http://www.sharjah.ac.ae/wospa">http://www.sharjah.ac.ae/wospa</a></td>
</tr>
<tr>
<td>May</td>
<td>28–30</td>
<td>3DTV Conference 2008</td>
<td>Istanbul, Turkey</td>
<td>Cooperation</td>
<td>Aydin Alatan, Uğur Gidükbay <a href="http://www.3dtv-con.org">http://www.3dtv-con.org</a></td>
</tr>
<tr>
<td>July</td>
<td>7–8</td>
<td>The 2nd EURASIP Workshop on RFID Technology</td>
<td>Budapest, Hungary</td>
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<td>Peter Sziklai</td>
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<td>October</td>
<td>6–8</td>
<td>10th International Workshop on Signal Processing for Space Communications (SPSC 2008)</td>
<td>Rhodes, Greece</td>
<td>Cooperation</td>
<td>Nader Alagha <a href="http://conferences.esa.int">http://conferences.esa.int</a></td>
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**Markus Rupp; Workshops/Confs Coordinator EURASIP**
Third International Conference on Image and Signal Processing

ICISP 2008
July 1-3, Cherbourg-Octeville, Normandy, France

CALL FOR PAPERS

Following the two successful previous editions of ICISP (Agadir 2001, Agadir 2003), the Université de Caen Basse Normandie will organize the next ICISP event in Cherbourg-Octeville, Normandy, France. ICISP aims to provide researchers and practitioners from academia and industry with a forum on the last developments in image and signal processing, multimedia and computer graphics. The conference will also provide a unique opportunity for sharing experiences from different backgrounds with the common interest in advanced methods in the above-mentioned fields. The scientific program of ICISP 2008 will include the presentation of invited plenary talks, special sessions as well as poster and regular sessions with contributed research papers.

Topics of interest for submission include, but are not limited to:

- Image and video processing: image filtering, restoration and enhancement, image segmentation, video segmentation and tracking, morphological processing, feature extraction and analysis, interpolation and super-resolution, motion detection and estimation, computer vision, pattern recognition, content-based image retrieval.
- Signal Processing: spectral analysis, time-frequency and time-scale representation, statistical signal processing, filtering, detection and estimation, nonlinear signal processing, radar, antennas, telecommunications systems, acoustics.
- Computer graphics: algorithms, visualization, animation, virtual reality.
- Applications: biomedical sciences, biometry, document image processing and authentication, other applications.

ICISP 2008 will also include a number of special sessions:

- Image mass data analysis,
- Graph-based representations in pattern recognition,
- Biomedical applications: Virtual slide acquisition and processing.

PAPER SUBMISSION

Prospective authors are invited to submit full papers of not more than eight (8) pages including results, figures and references. All the papers will be handled and reviewed electronically through the conference web site.

Submission of full paper Jan 25, 2008
Notification of acceptance March 10, 2008
Submissions of camera-ready papers April 10, 2008

CONFERENCE VENUE

ICISP’2008 will be held in Cherbourg-Octeville (France) on July 1-3, 2008.

For further information: http://www.istb.unicaen.fr/icisp2008
PRELIMINARY ANNOUNCEMENT

The 2008 European Signal Processing Conference (EUSIPCO-2008) is the sixteenth in a series of conferences promoted by EURASIP, the European Association for Signal, Speech, and Image Processing (www.eurasip.org). Formerly biannual, this conference is now a yearly event. This edition will take place in Lausanne, Switzerland, organized by the Swiss Federal Institute of Technology, Lausanne (EPFL).

EUSIPCO-2008 will focus on the key aspects of signal processing theory and applications as listed below. Exploration of new avenues and methodologies of signal processing will also be encouraged. Accepted papers will be published in the Proceedings of EUSIPCO-2008. Acceptance will be based on quality, relevance and originality. Proposals for special sessions and tutorials are also invited.

Areas of Interest

- Audio and Electroacoustics
- Design and Implementation of Signal Processing Systems
- Image and Multidimensional Signal Processing
- Multimedia Signal Processing
- Signal Detection and Estimation
- Sensor Array and Multichannel Processing
- Signal Processing for Communications
- Speech Processing
- Education in Signal Processing
- Nonlinear Signal Processing
- Medical Imaging and Image Analysis
- Signal Processing Applications (Biology, Geophysics, Seismic, Radar, Sonar, Remote Sensing, Astronomy, Bio-informatics, Positioning etc.)
- Emerging Technologies

Best Student Paper Awards

There will be a student paper contest. Student authors who appear as first authors in a paper may enter the student paper contest.

Submissions

Procedures to submit a paper, proposals for special sessions/tutorials, will be detailed at www.eusipco2008.org. Submitted papers must be camera-ready, final, no more than five pages long all inclusive and conforming to the format that will be specified on the EUSIPCO web site above.

More details will be given in due time on our web site:

www.eusipco2008.org

The European Association for Signal, Speech, and Image Processing (EUSIPCO) is a series of conferences promoted by EURASIP, the European Association for Signal, Speech, and Image Processing (www.eurasip.org).
50th International Symposium ELMAR-2008
September 10-13, 2008
Zadar, Croatia

Call for Papers

The 50th International Symposium ELMAR-2008, 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 50 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 communications, 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 INSPEC and IEEEexplore database. ELMAR-2008 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 Communications
- Telecommunications
- 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

- **Professor Sanjit K. Mitra**, University of Southern California, Los Angeles, California, USA: Image Processing using Quadratic Volterra Filters
- **Univ.Prof. Dr.techn. Markus Rupp**, Vienna University of Technology, AUSTRIA: Testbeds and Rapid Prototyping in Wireless Systems
- **Professor Paul Cross**, University College London, UK: GNSS Data Modeling: The Key to Increasing Safety and Legally Critical Applications of GNSS
- **Dr.-Ing. Malte Kob**, RWTH Aachen University, GERMANY: The Role of Resonators in the Generation of Voice Signals

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-2008 paper sample, convert them to PDF (based on IEEE requirements), and submit papers using web-based submission system by March 03, 2008.

For further information please visit: www.elmar-zadar.org
15th International Conference on Systems, Signals and Image Processing  

IWSSIP 2008 
June 25 – June 28, 2008, Bratislava, Slovak Republic 

CALL FOR PAPERS

The 15th International Conference on Systems, Signals and Image Processing, IWSSIP 2008 will be held in prestigious hotel Apollo**** in Bratislava, Slovak Republic, during June 25 – June 28, 2008. IWSSIP 2008 follows the successful events previously held in Budapest, Manchester, Poznań, Zagreb, Bratislava, Maribor, Bucharest, Prague and Chalkida. IWSSIP brings together researchers and developers from both academia and industry to report on the latest scientific and theoretical advances, to discuss and debate major issues and to demonstrate state-of-the-art systems.

Topics of interest
The program includes keynote and special lectures presented by eminent experts in the field, peer reviewed contributed papers, posters, invited sessions on the same or related topics, industrial presentations and exhibitions about but not limited to the following topics for IWSSIP 2008 conference:

• Signal Processing and Systems
• Artificial Intelligence Technologies
• ICT in E-learning/Consulting
• Video Streaming and Videoconferencing
• Watermarking and Encryption
• Speech and Audio Processing
• Image and Video Processing and Coding
• Multimedia Human-Machine Interface and Interaction
• Multimedia Content Processing and Content Description
• Multimedia Signal Processing
• Multimedia Databases
• Multimedia Communications, Networking, Services and Applications
• Multimedia Data Compression
• Multimedia Systems and Services
• Information and Network Security
• IMS based NGN Architecture, Services and Protocols
• Multimedia Services in NGN
• DVB and IPTV Technologies
• Multicast & Broadcast for IPTV
• Service Control and Media Delivery in NGN based IPTV
• Service Selection and Discovery for Multimedia Services
• Next Generation Mobile Networks
• Fixed Mobile Convergence

Submission of Regular Papers:
Prospective authors are invited to submit full-length, four-pages long papers, including figures and references. Papers must be submitted electronically by March 1, 2008. Each paper will be reviewed by at least two independent reviewers, and will be accepted based on its originality, significance and clarity. Please note that the submission dates for papers are strict deadlines.

Publications:
All accepted papers will be published in Proceedings that will be available at the conference. Extended and enhanced versions of selected papers will be published in scientific journals, as well

Conference fees:
The payment methods will be updated later.

• Early Registration (before March 31) 380 €
• Regular Registration 450 €
• Student Registration 180 €

iwssip.stuba.sk
Call for Papers

Third Workshop on multiMedia Applications over Wireless Networks (MediaWiN 2008)

organised in association with

The Thirteenth IEEE Symposium on Computers and Communications (ISCC 2008)

July 6th, Marrakech, Morocco

Sponsored by IEEE Computer Society and IEEE Communication Society

Endorsed by the IEEE Technical Committee on Communications Systems Integration and Modeling (CSIM)

In Cooperation with the European Association for Signal Processing (EURASIP)

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George Kastoros (CTR of Thessaly, Greece)
Ferhat Khendek (Concordia University, Canada)
Adlen Ksentini (Universidad Carlos III de Madrid, Spain)
Michela Mangold (Swisscom, Switzerland)
Joannis Mavridis (University of Macedonia, Greece)
Georgios Papadimitriou (Aristotle University, Greece)
Roberto Riggio (University of Trento, Italy)
Michele Rossi (University of Padova, Italy)
Susana Sargento (University of Aveiro, Portugal)
Luca Scialla (University of Palermo, Italy)
Antonio Servetti (Politecnico di Torino, Italy)
Thrasivoulos Spyropoulos (ETH Zurich, Switzerland)
Pietro Zanuttigh (University of Padova, Italy)
Gil Zussman (Massachusetts Institute of Technology, USA)

Web Chair
Vasilios Lourdas
TEI of Thessaloniki, Greece
lourdas@it.teithe.gr

Please visit http://mediawin.it.teithe.gr for additional information. Inquiries regarding the Workshop should be directed to the General or the Program Co-Chairs.

The multimedia over wireless paradigm can potentially change a number of different aspects of everyday life, including social interactions, safety and, of course, leisure and business. Wireless interconnection between portable devices (mobile phones, MP3 players, palmtops, wireless sensors, and so on) can enable the creation of on-the-fly gaming sessions or, in the context of safety services, the exchange of critical alarms and action coordination. For example, the possibility of transmitting high quality video directly from an ambulance or from a disaster zone could, respectively, speed up the physicians or the rescue team interventions.

These are only a limited subset of the plethora of applications that might be enabled by the multimedia over wireless paradigm. Nonetheless, to turn this vision into reality and make multimedia services really attractive for entrepreneurs and market players, a number of issues still remain to be addressed.

The Third Workshop on multiMedia Applications over Wireless Networks (MediaWiN 2008) is an open forum, which aims at promoting interaction and discussion between the Workshop contributors. Starting with a rigorous review process in which each submitted paper will receive at least three independent peer reviews, including one from a TPC member, we expect the Workshop to provide relevant and knowledgeable feedback that will assist all authors to significantly enhance the quality of their work.

Fortified by the success of the previous experience, the third edition of the MediaWiN Workshop will be again organised in association with the IEEE Symposium on Computers and Communications (ISCC 2008).

The focal topics of the Workshop include:

Multimedia Services Design and Characterization
- Cooperative multimedia services
- Health care, safety and emergency oriented multimedia services
- Emerging and visionary multimedia applications for wireless mobile networks

Mathematical Models for Multimedia Applications
- Mathematical models for multimedia traffic sources
- Mathematical quality metrics for multimedia services
- Models and tools for the simulation of multimedia traffic sources

Experimentation: Testbeds, Field Trials and Empirical Results
- Design and implementation of testbeds for multimedia over wireless
- Filed trials, experimental measurements and results
- Measurements-based models for multimedia over wireless
- Testing of protocols and standards for multimedia over wireless

Multimedia Services over Resource-constrained Wireless Networks (WSN, WPAN)
- Energy efficiency issues in protocols for multimedia over wireless sensor networks
- Scheduling and link adaptation techniques
- Resilience to node failures and network topology variations
- Low complexity cross layer techniques for multimedia over WSN or WPAN

Multimedia Services over Wireless LAN, WAN and Ad-hoc Networks
- Car-to-car and road-to-car multimedia communications in vehicular networks
- Protocols for multimedia support and provisioning over mesh and heterogeneous networks
- Context aware techniques for enhancing multimedia service support
- Design and improvements of MAC service differentiation solutions
- Mobility and handoff management
- Security issues in wireless multimedia applications
- Multimedia traffic charging and accounting techniques

Emerging Standards and Technologies for Wireless Multimedia Communications
- Recent work in standardization fora, including IEEE 802.11, 802.15, 802.16, 802.21
- New network architectures for wireless communications (IEEE 802.11v, CAPWAP)
- Compression techniques, standards and evaluation

Important Dates
Submission of research papers due: February 15, 2008
Notification of paper acceptance: March 15, 2008
Submission of camera-ready papers due: April 12, 2008
Workshop date: July 6, 2008

Paper submission
Papers should contain original material and not be previously published or currently submitted for consideration elsewhere. Manuscripts should not exceed 6 pages in the IEEE proceedings style and must be submitted by February 15, 2008 using EDAS (http://edas.info). Accepted papers will be part of the ISCC 2008 Proceedings and will be available on IEEE Xplore (http://ieeexplore.ieee.org).
Special Issue on

Signal Processing Advances in Robots and Autonomy

CALL FOR PAPERS

The capabilities of robots and autonomous systems have increased dramatically over the past years. This success story partly depends on advances in signal processing which provide appropriate and efficient analysis of sensor data and enable autonomy. A key element of the transition of signal processing output to its exploitation inside robots and autonomous systems is the way uncertainty is managed: uncertainty originating from insufficient sensor data, uncertainty about effects of future autonomous actions and, in the case of distributed sensors and actuators (like for a team of robots), uncertainty about communication lines. The aim of this special issue is to focus on recent developments that allow passing this transition path successfully, showing either where signal processing is used in robotics and autonomy or where robotics and autonomy had special demands that had not been fulfilled by signal processing before.

Topics of interest include, but are not limited to:

- **Autonomous navigation:**
  - Outdoor navigation using geo-information and dedicated indoor navigation solutions
  - Collision avoidance/sense and avoid
  - Dynamic feature maps, and simultaneous localization and mapping (SLAM)

- **Path planning:**
  - Proactive, based on open-loop optimization
  - Reactive, based on adaptive control or model predictive control (MPC)
  - Probabilistic approaches for maximizing the expected future information

- **Exploration:**
  - Networked teams of robots
  - Sensor networks which mix static sensors with autonomous moving ones
  - Distributed algorithms and communication aspects

The special issue will focus on the one hand on the development and comparison of algorithmic approaches and on the other hand on their currently ever-widening range of applications in any platform: underwater, surface, ground, and airborne. Special interest lies in probabilistic approaches and setups of distributed sensors and actuators.
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Special Issue on
CNN Technology for Spatiotemporal Signal Processing

CALL FOR PAPERS
A cellular neural/nonlinear network (CNN) is any spatial arrangement of mainly locally coupled cells, where each cell has an input, an output, and a state that evolves according to some prescribed dynamical laws. CNN represents a paradigm for nonlinear spatiotemporal dynamics and the core of the cellular wave computing (also called CNN technology). Partial differential equations (PDEs) or wave-like phenomena are the computing primitives of CNN. Besides, their suitability for physical implementation due to their local connectivity makes CNNs very appropriate for high-speed parallel signal processing.

Early CNN applications were mainly in image processing. The possible availability of cellular processor arrays with a high number of processing elements opened a new window for the development of new applications and the recovery of techniques traditionally conditioned by the slow speed of conventional computers. Let us name as example image processing techniques based on active contours or active wave propagation, or applications within the medical image processing framework (echocardiography, retinal image processing, etc.) where fast processing provides new capabilities for medical disease diagnosis.

On the other hand, emerging applications exploit the complex spatiotemporal phenomena exhibited by multilayer CNN and extend to the modelling of neural circuits for biological vision, motion, and higher brain function.

The aim of this special issue is to bring forth the synergy between CNN and spatiotemporal signal processing through new and significant contributions from active researchers in these fields. Topics of interest include, but are not limited to:

- Theory of cellular nonlinear spatiotemporal phenomena
- Analog-logic spatiotemporal algorithms
- Learning & design
- Bioinspired/neuromorphic arrays
- Physical VLSI implementations: integrated sensor/processor/actuator arrays
- Applications including computing, communications, and multimedia
- Circuits, architectures and systems in the nanoscale regime
- Other areas in cellular neural networks and array computing
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Special Issue on
Applications of Signal Processing Techniques to Bioinformatics, Genomics, and Proteomics

CALL FOR PAPERS
The recent development of high-throughput molecular genetics technologies has brought a major impact to bioinformatics, genomics, and proteomics. Classical signal processing techniques have found powerful applications in extracting and modeling the information provided by genomic and proteomic data. This special issue calls for contributions to modeling and processing of data arising in bioinformatics, genomics, and proteomics using signal processing techniques. Submissions are expected to address theoretical developments, computational aspects, or specific applications. However, all successful submissions are required to be technically solid and provide a good integration of theory with practical data. Suitable topics for this special issue include but are not limited to:

- Time-frequency representations
- Spectral analysis
- Estimation and detection
- Stochastic modeling of gene regulatory networks
- Signal processing for microarray analysis
- Denoising of genomic data
- Data compression
- Pattern recognition
- Signal processing methods in sequence analysis
- Signal processing for proteomics

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http://www.hindawi.com
Special Issue on

Network Structure and Biological Function: Reconstruction, Modelling, and Statistical Approaches

CALL FOR PAPERS

We are particularly interested in contributions, which elucidate the relationship between structure or dynamics of biological networks and biological function. This relationship may be observed on different scales, for example, on a global scale, or on the level of subnetworks or motifs.

Several levels exist on which to relate biological function to network structure. Given molecular biological interactions, networks may be analysed with respect to their structural and dynamical patterns, which are associated with phenotypes of interest. On the other hand, experimental profiles (e.g., time series, disturbances) can be used to reverse engineer network structures based on a model of the underlying functional network.

Is it possible to detect the interesting features with the current methods? And how is our picture of the relationship between network structure and biological function affected by the choice of methods?

Perspectives both from simulation approaches as well as the evaluation of experimental data and combinations thereof are welcome and will be integrated within this special issue.

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CALL FOR PAPERS

Technology advances and a growing field of applications have been a constant driving factor for embedded systems over the past years. However, the increasing complexity of embedded systems and the emerging trend to interconnections between them lead to new challenges. Intelligent solutions are necessary to solve these challenges and to provide reliable and secure systems to the customer under a strict time and financial budget.

Typically, intelligent solutions often come up with an orthogonal and interdisciplinary approach in contrast to traditional ways of engineering solutions. Many possible intelligent methods for embedded systems are biologically inspired, such as neural networks and genetic algorithms. Multiagent systems are also prospective for an application for nontime critical services of embedded systems. Another field is soft computing which allows a sophisticated modeling and processing of imprecise (sensory) data.

The goal of this special issue is to provide a forum for innovative smart solutions which have been applied in the embedded systems domain and which are likely useful to solve problems in other applications as well.

Original papers previously unpublished and not currently under review by another journal are solicited. They should cover one or more of the following topics:

- Smart embedded (real-time) systems
- Autonomous embedded systems
- Sensor networks and sensor node hardware/software platforms
- Software tools for embedded systems
- Topology control and time synchronization
- Error tolerance, security, and robustness
- Network protocols and middleware for embedded systems
- Standardization of embedded software components
- Data gathering, aggregation, and dissemination
- Prototypes, applications, case studies, and test beds

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Special Issue on

Formal Techniques for Embedded Systems
Design and Validation

CALL FOR PAPERS

Computing platforms that are embedded within larger systems they control, called embedded systems, are inherently very complex as they are responsible for controlling and regulating multiple system functionalities. Often embedded systems are also safety-critical requiring high degree of reliability and fault tolerance. Examples include distributed microprocessors controlling the modern cars or aircrafts and airport baggage handling system that track and trace unsafe baggage. To address this growing need for safety and reliability, formal techniques are increasingly being adapted to suit embedded platforms. There has been widespread use of synchronous languages such as Esterel for the design of automotive and flight control software that requires stronger guarantees. Languages like Esterel not only provide nice features for high-level specification but also enable model checking-based verification due to their formal semantics. Other semiformal notations are also being proposed as standards to specify industrial embedded systems using, for example, the newly developed IEC61499 standard for process control. This standard primarily focuses on component-oriented description of embedded control systems. The goal of this special issue is to bring together a set of high-quality research articles looking at different applications of formal or semiformal techniques in specification, verification, and synthesis of embedded systems.

Topics of interest are (but not limited to):

- Verification of system-level languages
- Verification of embedded processors
- Models of computation and verification
- Models of computation for heterogeneous embedded systems
- IP verification issues
- Open system verification techniques such as module checking and applications of module checking
- Formal techniques for protocol matching and interface process generation
- Applications of DES control theory in open system verification
- Adaptive techniques for open system verification
Verification techniques for automatic debugging of embedded systems
Formal approaches for secure embedded systems
Hardware-software co-verification of embedded systems
Compositional approaches for SOC verification
Verification of distributed embedded systems

Before submission authors should carefully read over the journal’s Author Guidelines, which are located at http://www.hindawi.com/journals/es/guidelines.html. Authors should follow the EURASIP Journal on Embedded Systems manuscript format described at the journal’s site http://www.hindawi.com/journals/es/. Prospective authors should submit an electronic copy of their complete manuscript through the journal’s Manuscript Tracking System at http://mts.hindawi.com/, according to the following timetable:

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Special Issue on
Distributed Video Coding

CALL FOR PAPERS

Distributed source coding (DSC) is a new paradigm based on two information theory theorems: Slepian-Wolf and Wyner-Ziv. Basically, the Slepian-Wolf theorem states that, in the lossless case, the optimal rate achieved when performing joint encoding and decoding of two or more correlated sources can theoretically be reached by doing separate encoding and joint decoding. The Wyner-Ziv theorem extends this result to lossy coding. Based on this paradigm, a new video coding model is defined, referred to as distributed video coding (DVC), which relies on a new statistical framework, instead of the deterministic approach of conventional coding techniques such as MPEG standards.

DVC offers a number of potential advantages. It first allows for a flexible partitioning of the complexity between the encoder and decoder. Furthermore, due to its intrinsic joint source-channel coding framework, DVC is robust to channel errors. Because it does no longer rely on a prediction loop, DVC provides codec independent scalability. Finally, DVC is well suited for multiview coding by exploiting correlation between views without requiring communications between the cameras.

High-quality original papers are solicited for this special issue. Topics of interest include (but are not limited to):

- Architecture of DVC codec
- Coding efficiency improvement
- Side information generation
- Channel statistical modeling and channel coding
- Joint source-channel coding
- DVC for error resilience
- DVC-based scalable coding
- Multiview DVC
- Complexity analysis and reduction
- DSC principles applied to other applications such as encryption, authentication, biometrics, device forensics, query, and retrieval

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Special Issue on
Patches in Vision

CALL FOR PAPERS

The smallest primitive employed for describing an image is the pixel. However, analyzing an image as an ensemble of patches (i.e., spatially adjacent pixels/descriptors which are treated collectively as a single primitive), rather than individual pixels/descriptors, has some inherent advantages (i.e., computation, generalization, context, etc.) for numerous image and video content extraction applications (e.g., matching, correspondence, tracking, rendering, etc.). Common descriptors in literature, other than pixels, have been contours, shape, flow, and so forth.

Recently, many inroads have been made into novel tasks in image and video content extraction through the employment of patch-based representations with machine learning and pattern recognition techniques. Some of these novel areas include (but are not limited to):

- Object recognition/detection/tracking
- Event recognition/detection
- Structure from motion/multiview

In this special issue, we are soliciting papers from the image/video processing, computer vision, and pattern recognition communities that expand and explore the boundaries of patch representations in image and video content extraction.

Relevant topics to the issue include (but are not limited to):

- Novel methods for identifying (e.g., SIFT, DoGs, Harris detector) and employing salient patches
- Techniques that explore criteria for deciding the size and shape of a patch based on image content and the application
- Approaches that explore the employment of multiple and/or heterogeneous patch sizes and shapes during the analysis of an image
- Applications that explore how important relative patch position is, and whether there are advantages in allowing those patches to move freely or in a constrained fashion
- Novel methods that explore and extend the concept of patches to video (e.g. space-time patches/volumes)
• Approaches that draw upon previous work in structural pattern recognition in order to improve current patch-based algorithms
• Novel applications that extend the concept of patch-based analysis to other, hitherto, nonconventional areas of image and video processing, computer vision, and pattern recognition
• Novel techniques for estimating dependencies between patches in the same image (e.g., 3D rotations) to improve matching/correspondence algorithmic performance

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Special Issue on 
Fairness in Radio Resource Management for Wireless Networks

CALL FOR PAPERS
Radio resource management (RRM) techniques (such as admission control, scheduling, sub-carrier allocation, channel assignment, power allocation, and rate control) are essential for maximizing the resource utilization and providing quality of service (QoS) in wireless networks.

In many cases, the performance metrics (e.g., overall throughput) can be optimized if opportunistic algorithms are employed. However, opportunistic RRM techniques always favor advantaged users who have good channel conditions and/or low interference levels. The problem becomes even worse when the wireless terminals have low mobility since the channel conditions become slowly varying (or even static), which might lead to long-term unfairness. The problem of fair resource allocation is more challenging in multihop wireless networks (e.g., mesh and multihop cellular networks).

The performance fairness can be introduced as one of the QoS requirements (e.g., as a condition on the minimum throughput per user). Fair RRM schemes might penalize advantaged users; hence, there should be a tradeoff between the overall system performance and the fairness requirements.

We are soliciting high-quality unpublished research papers addressing the problem of fairness of RRM techniques in wireless communication systems. Topics include (but are not limited to):

- Fairness of scheduling schemes in wireless networks
- Tradeoff between maximizing the overall throughput and achieving throughput fairness
- RRM fairness: problem definition and solution techniques
- Fairness performance in emerging wireless systems (WiMAX, ad hoc networks, mesh networks, etc.)
- Cross-layer RRM design with fairness
- Short-term and long-term fairness requirements
- Adaptive RRM to support fairness
- Fairness in cooperative wireless communications
- Issues and approaches for achieving fairness in multihop wireless networks
- RRM framework and QoS architecture
- Complexity and scalability issues
- Experimental and implementation results and issues
- Fairness in multiple-antenna transmission/reception systems
- Fairness in end-to-end QoS provisioning

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Aims and Scope
Active and Passive Electronic Components is devoted to the science and technology of all types of electronic components. The journal publishes experimental and theoretical papers on topics such as transistors, hybrid circuits, integrated circuits, microelectromechanical systems (MEMS), sensors, high-frequency devices and circuits, power devices and circuits, nonvolatile memory technologies such as ferroelectric and phase transition memories, and nano electronics devices and circuits.

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Aims and Scope

The aim of Advances in Acoustics and Vibration is to act as a platform for dissemination of innovative and original research and development work in the area of acoustics and vibration. The target audience of the journal comprises both researchers and practitioners. Articles with innovative works of theoretical and/or experimental nature with research and/or application focus can be considered for publication in the journal.

Subject areas include (but are not limited to):

- Active, semiactive, passive and combined active-passive noise and vibration control, acoustic signal processing, aeroacoustics, and aviation noise.
- Architectural acoustics, audio acoustics, mechanisms of human hearing, musical acoustics, computational acoustics, numerical techniques, community and environmental acoustics and vibration
- Condition monitoring, health diagnostics, vibration testing, nondestructive testing, human response to sound and vibration, occupational noise exposure and control
- Industrial, machinery, transportation noise and vibration
- Low-, mid-, and high-frequency noise and vibration
- Materials for noise and vibration control
- Measurement and actuation techniques, sensors, actuators
- Modal analysis, statistical energy analysis, wavelet analysis, inverse methods
- Nonlinear acoustics and vibration
- Sound and vibration sources, source localization, sound propagation
- Underwater and ship acoustics
- Vibro-acoustics and shock

Application areas include (but are not limited to) aircraft, agricultural machinery, automobiles, buildings, construction machinery, domestic appliances, ducts, fans, flexible 1D and 2D structures, office spaces, reciprocating and rotary compressors, robotic manipulators, space vehicles, rotary machines, unmanned air vehicles, urban transportation, gas turbine combustors.

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Aims and Scope
We recognize that modern computing techniques and applications touch, interfere, and influence many areas of everyday human life and human endeavor on increasingly more complex, more sophisticated, and intellectually increasingly challenging levels. Advances in Artificial Intelligence investigates the role of artificial intelligence in this rapidly progressing and challenging environment. It provides a rich, multidisciplinary platform for bringing together researchers and industry practitioners from a variety of areas to share results of current R&D and to discuss existing and emerging theoretical and applied problems in the rapidly evolving area of intelligent computing. Areas of interest include but are not limited to:

- Robotics
- Soft computing theory and applications
- Evolutionary inspired computing
- Pervasive computing and ambient intelligence
- Intelligent Web
- Bioinformatics
- Neuroinformatics
- Computing and the mind
- Cognitive science
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Aims and Scope
Advances in Human-Computer Interaction is an interdisciplinary journal that publishes theoretical and applied papers covering the broad spectrum of interactive systems. The journal is inherently interdisciplinary, publishing original research in the fields of computing, engineering, artificial intelligence, psychology, linguistics, and social and system organization, as applied to the design, implementation, application, analysis, and evaluation of interactive systems.

Subject areas covered by the journal include (but are not limited to):
- Human-computer interaction
- Interface design and universal design/access
- Predictive models and theories of interaction
- Adaptive and intelligent systems
- Speech, graphic, haptic, and multimodal interaction
- Natural language systems and methods
- Mobile, wearable, and ubiquitous computing systems
- Computer-mediated communication methods and systems
- Virtual, mixed, and augmented reality interfaces and systems
- Agent-based interfaces and systems
- System and user evaluation studies

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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.

Manuscript Submission
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International Editorial Board
The journal has a distinguished Editorial Board with extensive academic qualifications, which ensures that the journal maintains high scientific standards and has broad international coverage.
Aims and Scope
Advances in OptoElectronics is a peer-reviewed open access journal, which aims to accelerate worldwide recognition, dissemination, and utilization of the most recent findings and achievements in optoelectronics. It provides quick publication of original short and lengthy articles on theoretical, applied, and system results in all emerging and established multidisciplinary areas of optoelectronics.
Subject areas include but are not limited to:
▶ Materials, devices, components, electronics, design tools, packaging, reliability, manufacturing and applications of lasers, LEDs, OLEDs, and other photonic sources covering ultraviolet to infrared spectrum; luminescence and lighting
▶ Solar cells and photovoltaics; electro-optical imaging, sensors and detectors
▶ Optical data storage/processing; fiber optics and optical communications
▶ Space and atmosphere optics and remote sensing; quantum optics, ultrafast photonics and cryptography; optical lithography and nano-/microelectronics manufacturing tools.
▶ Optical interconnects; biomedical optics and microdevices.
▶ Micromachining and optical micro-/nanosystems; microscopy, instruments, and spectroscopy.

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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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International Editorial Board
The journal has a distinguished Editorial Board with extensive academic qualifications, which ensures that the journal maintains high scientific standards and has broad international coverage.
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.

Manuscript Submission
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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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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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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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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, arts), or on employing diverse data formats.

Manuscript Submission

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International Editorial Board

The journal has a distinguished Editorial Board with extensive academic qualifications, which ensures that the journal maintains high scientific standards and has broad international coverage.
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.

Manuscript Submission
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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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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 Editorial Board
The journal has a distinguished Editorial Board with extensive academic qualifications, which ensures that the journal maintains high scientific standards and has broad international coverage.
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.

Manuscript Submission
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International Editorial Board
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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, power and spectral efficiency
- Antenna and propagation for multimedia transmission and reception
- Multistandards compatibility and multisystems interoperability
- Multibands frequency interface issues, spectrum management, and usage
- Filed-trials and testing analyses
- Quality of service and quality of experience in multimedia broadcasting

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Aims and Scope
The overall aim of the International Journal of Microwave Science and Technology is to bring together both the research and development aspects of the radio frequency (RF) technology covering the whole range of subgiga-hertz to sub-millimeter-wave frequency spectrum. Areas of interest include, but are not limited to, high-frequency semiconductor devices, RF, microwave, and millimeter-wave circuit design, low-noise low-power front-end electronics, power generation, combining, and amplification techniques, frequency conversion techniques, antennas, microwave photonics techniques, and system level RF chip design and technology.

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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.

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Aims and Scope
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Aims and Scope

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- Algorithms implemented on reconfigurable hardware, hardware/software codesign and cosimulation with reconfigurable hardware
- High-performance reconfigurable computing and reconfigurable computing education

Application areas of reconfigurable computing include (but are not limited to) signal and image processing, communications, biomedical applications, consumer electronics, embedded systems, automation, intelligent systems, scientific computing, infotainment and multimedia, industrial applications, data compression, cryptography, robotics, and automotive.

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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.

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Aims and Scope
International Journal of Vehicular Technology aims to cover the state-of-the-art advances in vehicular technologies and theoretical contributions that relate to new architectures, system design and analysis, new concepts and protocols, as well as practical applications that relate to prototypes, experiments, and new applications and services. International Journal of Vehicular Technology also covers wireless communications and mobile systems related to vehicular technologies. The areas of interest range from devices and components to signaling, protocols, and communication and control systems.

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Aims and Scope
Journal of Artificial Evolution and Applications aims at being a reference for researchers and practitioners who study the theory and application of methodologies pertaining to evolutionary computation and related fields. Original contributions are sought describing recent achievements in evolutionary computation research, with particular, but not exclusive, regard to genetic algorithms, genetic programming, evolutionary programming, evolution strategies, swarm intelligence, learning classifier systems, artificial immune systems, coevolution, interactive evolution, evolvable hardware, and hybrid approaches relying on the joint use of evolutionary computation methods and other computational intelligence and optimization methods.

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Aims and Scope

Journal of Control Science and Engineering seeks to provide an outlet for technical papers on advances in the field of control systems and control technology. It aims at speedy, online publication of original, peer-reviewed papers in all established and newly emerging areas of control theory and applications, encompassing modeling, identification, estimation, analysis, design, implementation of control systems, and in broader and related areas of signal processing and systems and information sciences.

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International Editorial Board

The journal has a distinguished Editorial Board with extensive academic qualifications, which ensures that the journal maintains high scientific standards and has broad international coverage.
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):

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▶ Intelligent computer, network systems, Internet and web technologies, mobile and ubiquitous computing, network coding/cooperation, optical systems, communications, and networking
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Aims and Scope
Research Letters in Communications is devoted to very fast publication of short, high-quality manuscripts in the broad field of communications. Average time from submission to publication shall be around 60 days.

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International Editorial Board
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Aims and Scope
Research Letters in Signal Processing is devoted to very fast publication of short, high-quality manuscripts in the broad field of signal processing. Average time from submission to publication shall be around 60 days.

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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.

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Image analysis and processing is steadily gaining relevance within the large number of application fields to which genetic and evolutionary computation (GEC) techniques are applied. Although more and more examples of such applications can be found in literature, they are scattered, apart from a few exceptions, in proceedings and journals dedicated to more general topics. This book is the first attempt to offer a panoramic view on the field, by describing applications of most mainstream GEC techniques to a wide range of problems in image processing and analysis.
Advances in Signal Transforms: Theory and Applications

Edited by: J. Astola and L. Yaroslavsky

This book consists of two parts that represent two major directions in the field: development of new transforms and development of transform-based signal and image processing algorithms. The first part contains four chapters devoted to recent advances in transforms for image compression and switching and logic design, and to new fast transforms for digital holography and tomography. In the second part, advanced transform-based signal and image algorithms are considered: signal and image local adaptive restoration methods and two complementing families of signal and image resampling algorithms, fast transform-based discrete sinc-interpolation, and spline theory-based ones.
The aim of the book is to present a review of emerging new areas of interest involving nonlinear signal and image processing theories, techniques, and tools.

More than 30 leading researchers have contributed to this book covering the major topics relevant to nonlinear signal processing. These topics include recent theoretical contributions in different areas of digital filtering and a number of applications in genomics, speech analysis and synthesis, communication systems active noise control, digital watermarking, feature extraction, texture analysis, and color image processing.
Due to the rapid progress of multidisciplinary UWB research, an overview of the state of the art of UWB can only be achieved by combining the areas of expertise of several scientists in the field. More than 30 leading UWB researchers and practitioners have contributed to this book. Topics include UWB signal processing, UWB channel measurement and modeling, higher-layer protocol issues, spatial aspects of UWB signaling, UWB regulation and standardization, implementation issues, and UWB applications as well as positioning.
Multimedia Fingerprinting Forensics for Traitor Tracing

K. J. Ray Liu, Wade Trappe, Z. Jane Wang, Min Wu, and Hong Zhao

Multimedia Fingerprinting Forensics for Traitor Tracing covers the essential aspects of research in this emerging technology, and explains the latest development in this field. It describes the framework of multimedia fingerprinting, discusses the challenges that may be faced when enforcing usage policies, and investigates the design of fingerprints that cope with new families of multiuser attacks that may be mounted against media fingerprints. The discussion provided in the book highlights challenging problems as well as future trends in this research field, providing readers with a broader view of the evolution of the young field of multimedia forensics.
Smart Antennas—State of the Art

Edited by: Thomas Kaiser, André Bourdoux, Holger Boche, Javier Rodríguez Fonollosa, Jørgen Bach Andersen, and Wolfgang Utschick

Smart Antennas—State of the Art brings together the broad expertise of 41 European experts in smart antennas. They provide a comprehensive review and an extensive analysis of the recent progress and new results generated during the last years in almost all fields of smart antennas and MIMO (multiple-input multiple-output) transmission.

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Genomic Signal Processing and Statistics

Edited by: Edward R. Dougherty, Ilya Shmulevich, Jie Chen, and Z. Jane Wang

This book aims to address current genomic challenges by exploiting potential synergies between genomics, signal processing, and statistics, with special emphasis on signal processing and statistical tools for structural and functional understanding of genomic data.

Processing the vast genomic data, especially the recent large-scale microarray gene expression data, to reveal the complex biological functionality, represents enormous challenges to signal processing and statistics. This perspective naturally leads to a new field, genomic signal processing (GSP), which studies the processing of genomic signals by integrating the theory of signal processing and statistics.

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Dai Tracy Yang, Chris Kyriakakis, and C.-C. Jay Kuo

This book covers a wide range of knowledge on perceptual audio coding, from basic digital signal processing and data compression techniques to advanced audio coding standards and innovative coding tools. It is the only book available on the market that solely focuses on the principles of high-quality audio codec design for multichannel sound sources.

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