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Inside Signal Processing E-Newsletter

July-August 2008

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From the E-News Team:

We thank all readers for their contributions and feedback in the past year and we look forward to your participation in the new year. Please share the Inside Signal Processing E-Newsletter with your colleagues by emailing and bookmarking <<http://enews.ieee-spm.org>> for current and archived issues. IEEE members may manage their subscription to email notification of the Inside Signal Processing E-Newsletter at <<http://ewh.ieee.org/enotice/options.php?LN=SP001>>.

1. Society News

Election of Members-at-Large of SPS Board of Governors -- Your Vote is Important!

The election of Members-at-Large of the IEEE SPS Board of Governors for the term 1 January 2009 through 31 December 2011 is now open. Ballots have been mailed to SPS members, including a slate of six candidates supplied by the SPS Nominations and Appointments Committee, as well as a space for write-in candidates. This year's election offers SPS members the opportunity to cast their votes by mail, by fax, or by the web at https://www.intelliscaninc.com/ieee_sps_2008.htm for up to three candidates. This year the Society is offering web balloting and members are encouraged to take advantage of the new service. Instructions on these voting options are included in the ballot package. Ballots must be received at IEEE no later than **29 August 2008** in order to be counted.

The Board of Governors (BoG) is the governing body that oversees the activities of the IEEE Signal Processing Society. The SPS BoG has the responsibility of establishing and implementing policy, and receiving reports from its standing boards and committees. The SPS BoG is comprised of 17 SPS members: seven officers of the Society who are elected by the Board of Governors and nine Members-at-Large elected directly by the voting members of the Society. The Executive Director of the Society serves ex-officio, without vote. Members-at-Large represent the member view point in the Board decision-making. They typically review, discuss, and act upon a wide range of items affecting the actions, activities, and health of the Society. More information of the Signal Processing Society can be found at <http://www.signalprocessingsociety.org>.

SPS Members Receive 2009 IEEE Technical Field Awards

The IEEE James L. Flanagan Speech and Audio Processing Technical Field Award was awarded to John Makhoul for pioneering contributions to speech modeling. Dr. Makhoul is Chief Scientist at BBN Technologies, Speech and Language Processing Department, Cambridge, MA. He is a Life Fellow of the IEEE and a Member of the Signal Processing Society.

The IEEE Donald O. Pederson Technical Field Award in Solid-State Circuits was awarded to Teresa H. Meng for pioneering contributions to the development of integrated wireless communications systems. Dr. Meng is Professor of Electrical Engineering, Stanford University, Stanford, CA. She is a Fellow of the IEEE and a Member of the Signal Processing Society.

The IEEE Kiyo Tomiyasu Technical Field Award was awarded to Shih-Fu Chang for contributions to automated image classification and search. Dr. Chang is Professor and Chairman, Department of Electrical Engineering, Digital Video and Multimedia Lab, Columbia University, New York, NY. He is a Fellow of the IEEE and a Member of the Signal Processing Society.

Information about the IEEE Technical Field Awards can be found at [this link](#). Annual nominations are due on January 31.

Candy Honored by Interdisciplinary Silver Medal in Acoustics

James V. Candy, a member of IEEE and the Signal Processing Society, has been named recipient of the Acoustical Society of America's [Helmholtz-Rayleigh Interdisciplinary Silver Medal in Acoustics](#). The Acoustical Society of America (ASA) is the premier international scientific society in acoustics devoted to the science and technology of sound. The Silver Medal is awarded to ASA members whose work overlaps more than one technical area.

Candy is the Chief Scientist for Engineering at Lawrence Livermore National Laboratory and an Adjunct Professor in the Department of Electrical & Computer Engineering at the University of California, Santa Barbara. His research focuses on the development of model-based signal and image processing techniques. Using embedded physical models, these techniques can extract critical information from noisy measurement data for a wide variety of applications. More information of his work can be found at [this link](#).

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2. Conference News

ICASSP'09 Online Paper Submission Now Open -- Due 29 September 2008. Please visit the [online submission site](#). More details on the ICASSP 2009 program, tutorials, exhibits, and detailed paper submission procedures can be found at <http://icassp09.com>.

Industry Technology Track at ICASSP'09 - Call for Papers

Paper submissions are invited for the Industry Technology Track (ITT) at ICASSP 2009 in Taipei. The Industry Technology Track highlights industrial aspects and applications of signal processing, and is geared towards engineers, practitioners, and in general, people engaged in industrial and professional activity in signal processing.

Papers in this forum will cover both hardware and software issues in signal processing. Industry-oriented submissions describing innovative product implementations, applications, and solutions are preferred. Papers describing products should also include novel technical content. Submission of regular paper is due on **29 September 2008**. ICASSP 2009 will also feature exhibits of the latest DSP hardware and software tools and ingredients, plenary speakers from industry, and tutorials in emerging signal processing technologies.

Click [this link](#) for more information on the Industry Technology Track or contact the ITT Chair, Michael Deisher [michael.deisher AT intel.com].

Signal Proc. Conferences: Call for Papers	Location	Date	Tutorial/Special Session	Submission Deadline
IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP'09)	Taipei, Taiwan	April 19-24, 2009	August 4, 2008	Sept. 29, 2008
6th IEEE International Symposium on Biomedical Imaging (ISBI'09)	Boston, MA	June 28 - July 1, 2009		January 19, 2009
IEEE International Conference on Multimedia and Expo (ICME'09)	Cancún, Mexico	June 28 - July 3, 2009	December 31, 2008	December 31, 2008

Upcoming Signal Processing Conferences	Location	Advanced Registration	Conference Dates
International Workshop on Multimedia Security in Communication (MUSIC'08) in conjunction with CHINACOM 2008	Hangzhou, China		Aug. 25-27, 2008
2nd International Symposium on Microwaves, Radar and Remote Sensing (MRRS'08)	Kiev, Ukraine		Sept. 22-24, 2008
10th International Workshop on Signal Processing for Space Communications (SPSC'08)	Rhodes Island, Greece		Oct. 6-8, 2008
IEEE Workshop on Multimedia Signal Processing (MMSP'08)	Cairns, Australia	Aug. 11, 2008	Oct. 8-10, 2008
IEEE Workshop on Signal Processing Systems (SiPS'08)	Washington, DC	July 31, 2008	Oct. 8-10, 2008
IEEE International Conference on Image Processing (ICIP'08)	San Diego, CA	Aug. 8, 2008	Oct. 12-15, 2008
IEEE Workshops on Machine Learning for Signal Processing (MLSP'08)	Cancún, Mexico	Aug. 15, 2008	Oct. 16-19, 2008
IEEE International Conference on Natural Language Processing and Knowledge Engineering (NLP-KE'08)	Beijing, China	Sept. 1, 2008	Oct. 19-22, 2008
9th International Conference on Signal Processing (ICSP'08)	Beijing, China	Sept. 20, 2008	Oct. 26-29, 2008
IEEE Conference on Sensors (SENSORS 2008)	Lecce, Italy	July 31, 2008	Oct. 26-29, 2008
13th IEEE Digital Signal Processing Workshop (DSP'09) and 5th IEEE Workshop on Signal Processing Education (SPE'09)	Marco Island, FL	Oct. 15, 2008	January 4-7, 2009

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3. Publication News

Call for Contributions - IEEE Signal Processing Magazine (SPM)

The IEEE Signal Processing Magazine is received bimonthly by every Signal Processing Society member. Different from other publications that focus on new research results, SPM publishes tutorial articles with comprehensive surveys of important theories, algorithms, tools, and applications related to signal processing. Each issue includes articles from three main categories -- special issue articles, feature articles, and columns/forums articles. The recently introduced "Inside Signal Processing E-Newsletter" is a monthly electronic publication of SPM serving all members in the Society.

Papers in a special issue are focused on a central theme in a mature, critical area that is interesting to a broad audience. Feature articles address relevant subjects related to general signal processing fields of interest. Papers in columns and forums focus on a wide range of topics in signal processing and are divided in categories with different objectives and dynamics. The E-Newsletter provides members with timely updates on society news, publication opportunity, and activities in industry/academia/government.

SPM is inviting active contributions to each section. General information for prospective authors may be found at the [SPM website](#).

- Individuals interested in organizing a special issue as guest editors should submit a proposal to the Area Editor of Special Issues, Doug Williams [dbw AT ece.gatech.edu]. New topics not covered in recent issues will be preferred. A list of recent topics may be found at this [SPM link](#).

- Individuals interested in submitting a survey/tutorial article (not part of a Special Issue) should submit a white paper outlining the content of the proposed article to the Area Editor for Feature Articles, Li Deng [deng AT microsoft.com].
- To submit an article for any column of the magazine, please contact the Area Editor of Columns and Forums, Adriana Dumitras [SPM_columns_forums AT yahoo.com]. Please follow this [SPM link](#) for descriptions of columns and forum published in SPM.
- To submit input to E-Newsletter, please visit the [E-News web site](#) or contact the Area Editor of E-Newsletter, Min Wu [minwu AT eng.umd.edu].

Upcoming Deadlines for **Signal Processing Magazine**: <http://www.ieee-spm.org/?i=cfp>

- [Game Theory in Signal Processing and Communications](#) - Whitepaper Due **15 October 2008**
- [Columns/Forums](#) rolling submission deadlines

Special Issue Deadlines of SPS Publications

Journal of Selected Topics in Signal Processing

- [Managing Complexity in Multiuser MIMO Systems](#) - Deadline: **1 September 2008**
- [MIMO Radar and its Applications](#) - Deadline: **20 January 2009**

Recent Issues of SPS Sponsored and Co-sponsored Publications

Journal Title	Latest Issue	Contents (in PDF)	Xplore Linkk
IEEE Signal Processing Magazine <ul style="list-style-type: none"> • Special Section on Signal Processing in Visual Cultural Heritage • Feature Article on Linear Inverse Problems in Imaging 	vol. 25, no. 4	PDF	Html
IEEE Transactions on Audio, Speech, and Language Processing	vol. 16, no. 6	PDF	Html
IEEE Transactions on Image Processing	vol. 17, no. 8	PDF	Html
IEEE Transactions on Information Forensics and Security	vol. 3, no. 2	PDF	Html
IEEE Transactions on Signal Processing	vol. 56, no. 8	Part-1 Part-2	Html
IEEE Signal Processing Letters	vol. 15		Html
IEEE Journal of Selected Topics in Signal Processing <ul style="list-style-type: none"> • Genomic and Proteomic Signal Processing 	vol. 2, no. 3	PDF	Html
Journal Title	Latest Issue	Contents (in PDF)	Xplore Linkk
IEEE Transactions on Medical Imaging	vol. 27, no. 8	PDF	Html
IEEE Transactions on Mobile Computing	vol. 7, no. 9	PDF	Html
IEEE Transactions on Multimedia	vol. 10, no. 5	PDF	Html
IEEE Sensors Journal	vol. 8, no. 9		Html

IEEE Transactions on Wireless Communications	vol. 7, no. 7	PDF	Html
Computing in Science & Engineering Magazine	vol. 10, no. 4	PDF	Html
IEEE MultiMedia	vol. 15, no. 2	PDF	Html

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4. TC News

Technical Committee Endorsement on Upcoming SPS Award Nominations

Nominations for 2008 major SPS awards are open. As [announced](#) in the recent E-Newsletter, the award nominations should be submitted to SPS Vice President-Awards and Membership by 1 October 2008 and will be vetted by the appropriate [technical committees](#). Potential nominators are encouraged to contact related technical committees for the deadlines and procedures of TC-level nominations and endorsement.

The major SPS annual awards include honoring outstanding individuals who have made significant contributions related to signal processing through the Society Award, the Technical Achievement Award, the Education Award, and the Meritorious Service Award; the Society also recognizes outstanding publications in SPS journals and magazines through Best Paper Awards, Young Author Best Paper Awards, Signal Processing Magazine Best Paper Award and Best Column Award.

Upcoming TC Sponsored Events

- Design and Implementation of Signal Processing Systems Technical Committee ([TC website](#))

SiPS 2008 - 2008 IEEE Workshop on Signal Processing Systems
October 8-10, 2008, Washington, D.C. Metro Area, U.S.A.
<http://www.sips08.org/>

- Multimedia Signal Processing Technical Committee ([TC website](#))

MMSP 2008 - 2008 IEEE Workshop on Multimedia Signal Processing
October 8-10, 2008, Cairns, Australia
<http://www.mmsp08.org/>

Inviting proposal to organize MMSP 2010 - Due 10 September 2008
Click [here](#) for the announcement in the April 2008 issue of the E-Newsletter.

- Machine Learning for Signal Processing Technical Committee ([TC website](#))

MLSP'08 - 2008 IEEE Workshops on Machine Learning for Signal Processing
Oct. 16-19, 2008, Cancún, Mexico
<http://mlsp2008.conwiz.dk/>

- Industry DSP Technology Standing Committee ([SC website](#))

Industry Technology Track at ICASSP 2009 - See the [Conference News section](#) of this issue.

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5. Chapter News and Distinguished Lectures

Do you know? IEEE SPS provides travel support for local chapters to invite **SPS Distinguished Lecturers**. See a list of SPS [2007 and 2008 Distinguished Lecturers](#), and check each issue of the E-News for upcoming SPS Distinguished Lectures near you.

Chapter	Dates	SPS Distinguished Lectures
Germany	24-July-2008	Prof. Nikos Sidiropoulos (Technical University of Crete): "Multicast beamforming and admission control for UMTS-LTE and 802.16e". See detailed announcement for more information.
Singapore	29-July-2008	Prof. Petar M. Djuric (SUNY Stony Brook): "The particle filtering methodology in signal processing". At 3:00 PM, Executive Seminar Room (S2.2-B2-53), School of EEE, NTU. Contact Singapore Chapter Chair - Bi Guoan [EGBI AT ntu.edu.sg] for more information.
Malaysia	1-August-2008	Prof. Petar M. Djuric (SUNY Stony Brook): "The particle filtering methodology in signal processing ". At 11am, the NMES Lab, Multimedia University, Cyberjaya, Malaysia. Contact Chapter Chair [faizal1 AT mmu.edu.my] for more information.
Central Indiana	25-September-2008	Dr. Amy Reibman (AT&T Research) at Purdue University. Contact Ilya Pollak (ipollak@ecn.purdue.edu) for more information.
Chapter	Dates	Other Upcoming Events
Central Texas	17-July-2008	Jim Landsford (Alereon), "Ultrawideband: The "Ultra" White Space Technology," See detailed announcement for more information.
Vancouver	18-July-2008	Dr. Darko Kirovski (Microsoft Research, USA), "A Few Tricks for Anti-Piracy of Digital and Physical Goods." See detailed announcement for more information.
Santa Clara Valley	20-October-2008	Dr. Hubert Harrer (Server and Technology Group, IBM): " Multichip module packaging and its impact on architecture." See chapter web site for more information.

If you are interested in organizing a new SPS chapter, or participating in activities in a SPS local chapter near you, please check out [Local Chapter Resources](#). Additional questions and comments can be addressed to the [SPS Chapters Committee](#).

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6. New Initiatives and Trends

Spoken Language Technology

Recent advances in Spoken Language Technology promise to provide personalized access to information and numerous ubiquitous services. Advances in natural language understanding, machine learning translation technology and information search and data mining contribute to a new generation of services and communication, from automated contact center services, to multilingual communication or fast access to information in large databases.

The [Special Section on Spoken Language Technology](#) in the May 2008 issue of the IEEE Signal Processing Magazine provides new and broad views on research advances in the area, as well as technical

challenges, and impact of these new technologies in applications.

Learn [Standards in a Nutshell](#) from the latest issue of the IEEE Signal Processing Magazine in May 2008 on "**MPEG-4 high-efficiency AAC coding**" by J. Herre and M. Dietz.

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7. SP Education and Resources

Lecture Notes featured in the IEEE Signal Processing Magazine

- "Wideband synthetic aperture beamforming for through-the-wall imaging" by M.G. Amin and F. Ahmad ([July 2008](#))

DSP Tips and Tricks featured in the IEEE Signal Processing Magazine

- "Rethinking biased estimation" by S. Kay and Y.C. Eldar ([May 2008](#))
- "Efficient Resampling Implementations" by D.W. Barker ([July 2008](#))

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8. New Ph.D. Theses

Yngve Selén (Uppsala University, Sweden):
"Model Selection and Sparse Modeling," October 2007.
 Advised by Prof. Petre Stoica.

Parametric signal models are used in a multitude of signal processing applications. This thesis deals with signals for which there are many candidate models, and it is not a priori known which model is the most appropriate one. The first part of the thesis treats cases for which the set of models is relatively small, so that it is possible to evaluate each model in the set separately. The second part deals with sparse models, i. e., models sharing the same parameter vector, but for which any combination of zero valued and non-zero valued parameters is possible. Sparse models appear in a variety of applications, such as statistical data analysis, communications, and active sensing, such as radar and non-destructive testing.

Click [here](#) for more information about the thesis.

Interested in submitting or recommending a recent Ph.D. thesis?

Please prepare the following material and visit the [web submission site](#) to provide your input. Contact Associate Editor Prof. Alessandro Piva at <piva AT lci.det.unifi.it> if you have any questions.

- (1) thesis author's information (full name, contact, current affiliation, URL if available), Ph.D. granting institution, thesis advisor's name and contact information;
- (2) title, URL, and a short summary of the thesis (100-150 words); and
- (3) an email from the thesis advisor to Associate Editor at <alessandro.piva AT unifi.it>, confirming that the author has already successfully defended the Ph.D. thesis and that a final version of the thesis has officially been submitted according to the Ph.D. degree requirements of the author's institution.

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9. New Books

Mathematics of Digital Images: Creation, Compression, Restoration, Recognition

by S.G. Hoggar, Cambridge University Press, 2006.

[Description from the publisher](#): Compression, restoration and recognition are three of the key components of digital imaging. The mathematics needed to understand and carry out all these components are explained here in a style that is at once rigorous and practical with many worked examples, exercises with solutions, pseudocode, and sample calculations on images. The introduction lists fast tracks to special topics such as Principal Component Analysis, and ways into and through the book, which abounds with illustrations. The first part describes plane geometry and pattern-generating symmetries, along with some on 3D rotation and reflection matrices. Subsequent chapters cover vectors, matrices and probability. These are applied to simulation, Bayesian methods, Shannon's information theory, compression, filtering and tomography. The book will be suited for advanced courses or for self-study. It will appeal to all those working in biomedical imaging and diagnosis, computer graphics, machine vision, remote sensing, image processing and information theory and its applications.

An in-depth review is available in the [July 2008 issue](#) of the IEEE Signal Processing Magazine. Visit the [book's website](#) for detailed Table of Contents and ordering information.

Books Featured in Previous Issues [\[details\]](#)

Nonlinear Digital Filters: Analysis and Applications, W. K. Ling, Elsevier, 2007.

Wireless Sensor and Actuator Networks: Technologies, Analysis and Design, R. Verdone, D. Dardari, G. Mazzini and A. Conti, Elsevier, 2008.

Data Compression: The Complete Reference, 4th Edition, edited by D. Salomon, Springer, 2007.

Automatic Speech Recognition on Mobile Devices and Over Communication Networks, edited by Z-H. Tan and B. Lindberg, Springer, 2008.

A Software-Defined GPS and Galileo Receiver: A Single-Frequency Approach, by K. Borre, D.M. Akos, N. Bertelsen, P. Rinder, and S.H. Jensen, Birkhauser Publishing, 2007.

Medical Imaging: Signals and Systems, by Jerry L. Prince and Jonathan M. Links, Prentice Hall, 2006.

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10. Research Opportunities

Ph.D. Research Fellowship in Ocean Tomography at Technical University of Lisbon

The Institute for Systems and Robotics, a research institute of Instituto Superior Tecnico - Technical University of Lisbon, offers one research position within project PHITOM - Probabilistic High-Frequency Ocean Tomography for Underwater Communications and Navigation. The chosen candidate will develop algorithms for Bayesian inverse problems in underwater acoustics, validate them on experimental data, and participate in the development of a self-contained software solution to extract environmental and navigation data from communications signals. The grant is offered for a period of 3 years, from October

2008, according to standard rates of the Portuguese Science Foundation for domestic BI/Lic (<http://alfa.fct.mctes.pt/apoios/bolsas/valores>). Ideally, this work is envisaged as part of a Doctoral Dissertation. The application deadline is August 7. Visit this [web page](#) for further information see or contact Prof. Joao Gomes at [jpg AT isr.ist.utl.pt].

Research Position Featured in Previous Issue [\[details\]](#)

- Ph.D. Research Assistantship in Statistical Signal Processing at Uppsala University, Sweden
- Research Associate in Systems and Control at Uppsala University, Sweden
- Postdoctoral Fellowship on Vision and Pattern Analysis at Sabanci University, Istanbul, Turkey
- Ph.D. Assistantship and Postdoctoral Position in Multimedia Indexing at Institut EURECOM, France
- PhD Scholarship on Medical Signal Processing at Victoria University of Wellington, New Zealand

Job Posting Portals

<http://careers.ieee.org/>

<http://jobs.phds.org/jobs/engineering/>

http://engineering.academickeys.com/seeker_job.php

Interested in advertising graduate scholarship, post-doc positions, or funding opportunities?

Please prepare a short text of the announcement (150-200 words) and visit the [web submission site](#) to enter your input. It is recommended to include the deadline or valid period of the announcement, and an URL for more information such as group/research description and detailed qualification expectation. Contact Associate Editor Prof. Alessandro Piva at <alessandro.piva AT unifi.it> if you have any questions. Note that advertisements on faculty and other full-time position are in the domain of IEEE job advertisement (<http://careers.ieee.org///>); the IEEE Signal Processing Magazine also provides opportunities for paid advertisement.

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About the Inside Signal Processing E-Newsletter

Since April 2007, the IEEE Signal Processing Magazine has introduced a new form of publication - the Inside Signal Processing E-Newsletter. This monthly electronic newsletter will complement the bi-monthly Magazine to serve the members in the IEEE Signal Processing Society (SPS). Through email notification and expanded coverage on its website, the E-Newsletter will provide members with timely updates on:

- society and technical committee news,
- conference and publication opportunities, new books, and Ph.D. theses,
- signal processing related research opportunities, and
- activities in industry consortiums, local chapters, and government programs.

The Inside Signal Processing E-Newsletter is a gateway to reach out to signal processing professionals around the world. We invite you to contribute and share your news with tens of thousands of SPS members through this monthly electronic publication with fast turn-around cycle. IEEE members may manage their subscription of the email notification of the E-Newsletter and related SPS announcements at [this page](#). Please bookmark <<http://enews.ieee-spm.org>> for current and archived issues of the Inside Signal Processing E-Newsletter.

Submission Instructions - Contribution for the September '08 Issue Due August 20, 2008

Visit the [web submission site](#) to provide your input. Make sure that you include your name, affiliation, and email and phone contact information. Contributions submitted by **August 20, 2008** will be considered for inclusion in the **next issue** of the Inside Signal Processing E-Newsletter. Please contact the Associate Editors of the corresponding sections as listed below if you have questions. Your comments and suggestions on the new submission system are welcome.

Contact Information of the E-Newsletter Team

Min Wu, *SPM Area Editor for E-Newsletter*, University of Maryland, College Park, USA (minwu AT umd.edu)

Huaiyu Dai, *Associate Editor*, North Carolina State University, Raleigh, USA (huaiyu_dai AT ncsu.edu)
Conference and publication news (including new books)

Pascal Frossard, *Associate Editor*, EPFL, Switzerland (pascal.frossard AT epfl.ch)
News and activities of SPS Technical Committees, industry consortiums and international standards

Alessandro Piva, *Associate Editor*, University of Florence, Italy (alessandro.piva AT unifi.it)
News and activities in local chapters and research groups (including new Ph.D. theses & research opportunities)

Mihaela van der Schaar, *Associate Editor*, University of California, Los Angeles, USA (mihaela AT ee.ucla.edu)
News and activities of SPS Technical Committees, industry consortiums and international standards

Nitin Chandrachoodan, *Digital Production Editor*, Indian Institute of Technology – Madras (nitin AT ee.iitm.ac.in)
Online submission and production system

Shih-Fu Chang, *SPM Editor-in-Chief*, Columbia University, New York, USA (sfchang AT ee.columbia.edu)

* Please replace "AT" in the email addresses with @...

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