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IEEE Signal Processing Magazine

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Inside Signal Processing E-Newsletter

May 2008

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| Society News | Conference News | Publication News | TC News | Chapter/DL News |
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Highlights of This Issue

- [Society News](#): Nominations open for IEEE Sensors Council 2008 Awards
- [Conference News](#): Call for proposals to host 1st Workshop on Information Forensics & Security
- [Publication News](#): Special Issues Opportunities; Table of Contents of New Issues of SPS Journals
- [TC News](#): Exclusive Report from Industry DSP Technology Standing Committee
- [Chapter News](#): Upcoming Distinguished Lectures and Chapter Events
- [Tech Trends/Standards](#): Forensic Applications of Benford's Law; MPEG-4 High-Efficiency AAC Coding
- [SP Education & Resources](#): Web resources on Random Set Filtering; Featured Lecture Notes
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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**Call for Nominations for IEEE Sensors Council Awards - Deadline: August 15, 2008**

The IEEE Sensors Council calls for nomination of the 2008 major awards. There are three different awards: Technical Achievement Award, Meritorious Service Award, and IEEE Sensors Council Journal Best Paper Award.

- The purpose of the Technical Achievement Award is to honor a person with outstanding technical contributions within the scope of the IEEE Sensors Council as documented by publications, which includes patents. It is based on the general quality and originality of contributions.
- The Meritorious Service Award honors a person with outstanding long-term service to the welfare of the IEEE Sensors Council. It is based on dedication, effort and contributions.
- The IEEE Sensors Journal Best Paper Award recognizes the best paper published in the IEEE Sensors Journal. It is based on general quality, originality, contributions, subject matter and timeliness.

All nominations and supporting materials must be submitted by **August 15, 2008**, to the Award Committee Chair <c.schober AT computer.org>. Information and forms are also available on the Sensor Council website under [Society Awards](#), and in the Sensor Council's [January 2008 web newsletter](#).

Technical Councils in IEEE are established by the Technical Activities Board for the purpose of providing a continuing mechanism for two or more IEEE Societies to work together in a multi-disciplinary technical area of mutual interest, primarily through conferences and publications. The fields of interest of the Sensors Council and its activities are the theory, design, fabrication, manufacturing, reliability and applications of devices for sensing and transducing physical, chemical, and biological phenomena. The Sensors Council currently consists of 23 member societies, and the Signal Processing Society is one of them. More information about the Sensors Council can be found at [this link](#).

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2. Conference News**Call for Proposals to Organize the Inaugural Workshop on Information Forensics and Security**

The Technical Committee on Information Forensics and Security (IFS) invites proposals to organize the first IEEE International Workshop on Information Forensics and Security in 2009.

Check [here](#) for further details on the aspects that should be addressed by each proposal. The submission deadline is **June 1, 2008**. Please address inquiries and submit proposals to Prof. Ed Delp, IFS-TC Chair, at <ace AT ecn.purdue.edu>.

ICASSP 2009 - Submission Open for Tutorial and Special Session Proposals

The IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) is the world's largest and comprehensive technical conference focused on signal processing and its applications. As the Society's annual flagship conference, ICASSP features world-class speakers, tutorials, exhibits, and over 50 lecture and poster sessions. The 34th ICASSP will be held at the Taipei International Convention Center of Taiwan on April 19-24, 2009. [Taiwan](#), also referred to as Formosa – the Portuguese word for "graceful" – is situated on the western edge of the Pacific Ocean off the southeastern coast of mainland Asia, across the Taiwan Strait from Mainland China. To the north lie Japan and Okinawa, and to the south is the Philippines. ICASSP 2009 will be held in Taipei, a city that blends traditional culture and cosmopolitan life.

Tutorials will be held on April 19 and 20, 2009. Brief proposals should be submitted by **August 4, 2008**, to Tshuan Chen at <tutorials AT icassp09.com>, and must include title, outline, contact information, biography and selected publications for the presenter, a description of the tutorial, and material to be distributed to participants. Special sessions proposals should be submitted by **August 4, 2008**, to Shih-Fu Chang at <specialsessions AT icassp09.com> and must include a topical title, rationale, session outline, contact information, and a list of invited speakers. Submissions of regular papers of up to four pages long are due by **September 29, 2008**. All authors are referred to the [ICASSP 2009 website](#) for additional information regarding submissions.

Signal Proc. Conferences: Call for Papers	Location	Date	Tutorial/Special Session	Submission Deadline
IEEE International Conference on Natural Language Processing and Knowledge Engineering (NLP-KE'08)	Beijing, China	Oct. 19-22, 2008		June 1, 2008
9th International Conference on Signal Processing (ICSP'08)	Beijing, China	Oct. 26-29, 2008		June 15, 2008
13th IEEE Digital Signal Processing Workshop (DSP'09) and 5th IEEE Workshop on Signal Processing Education (SPE'09)	Marco Island, FL	January 4-7, 2009		August 1, 2008
NEW! IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP'09)	Taipei, Taiwan	April 19-24, 2009	August 4, 2008	Sept. 29, 2008

Upcoming Signal Processing Conferences	Location	Advanced Registration	Conference Dates
IEEE International Symposium on Biomedical Imaging (ISBI'08)	Paris, France		May 14-17, 2008
IEEE International Workshop on Genomic Signal Processing and Statistics (GENSIPS'08)	Phoenix, Arizona		June 8-10, 2008
1st International Workshop on Cognitive Information Processing	Santorini, Greece		June 9-10, 2008, 2008

IEEE International Conference on Multimedia & Expo (ICME'08)	Hanover, Germany	May 23, 2008	June 23-26, 2008
IEEE Workshop on Signal Processing Advances in Wireless Communications (SPAWC'08)	Recife, Brazil	May 15, 2008	July 6-9, 2008
International Conference on Audio, Language and Image Processing (ICALIP'08)	Shanghai, China		July 7-9, 2008
International Symposium on Image/Video Communications (ISIVC'08)	Bilbao, Spain	July 5, 2008	July 9-11, 2008
Fifth IEEE Workshop on Sensor Array and Multi-Channel Signal Processing (SAM'08)	Darmstadt, Germany	TBA	July 21-23, 2008
International Workshop on Multimedia Security in Communication (MUSIC'08) in conjunction with CHINACOM 2008	Hangzhou, China	TBA	Aug. 25-27, 2008
2nd International Symposium on Microwaves, Radar and Remote Sensing (MRRS'08)	Kiev, Ukraine	June 30, 2008	Sept. 22-24, 2008
10th International Workshop on Signal Processing for Space Communications (SPSC'08)	Rhodes Island, Greece	June 29, 2008	Oct. 6-8, 2008
IEEE Workshop on Multimedia Signal Processing (MMSP'08)	Cairns, Australia	TBA	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	TBA	Oct. 12-15, 2008
IEEE Workshops on Machine Learning for Signal Processing (MLSP'08)	Cancún, Mexico	TBA	Oct. 16-19, 2008
IEEE Conference on Sensors (SENSORS 2008)	Lecce, Italy	July 31, 2008	Oct. 26-29, 2008

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3. Publication News

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

- [Columns/Forums](#) rolling submission deadlines

Special Issue Deadlines of SPS Publications

Journal of Selected Topics in Signal Processing

- [DSP Techniques for RF/Analog Circuit Impairments](#) - Deadline: **1 June 2008**
- [Advanced Signal Processing for GNSS and Robust Navigation](#) - Deadline: **1 July 2008**

IEEE Transactions on Multimedia

- [Communities and Media Computing](#) - Deadlines: **30 May 2008**

Recent Issues of SPS Sponsored and Co-sponsored Publications

Journal Title	Latest Issue	Contents (in PDF)	Xplore Link
IEEE Signal Processing Magazine <ul style="list-style-type: none"> Special Section on Spoken Language Technology Feature Article on Auditory Perception and Cognition 	vol. 25, no. 3	PDF	Html
IEEE Transactions on Audio, Speech, and Language Processing	vol. 16, no. 4	PDF	Html
IEEE Transactions on Image Processing	vol. 17, no. 5	PDF	Html
IEEE Transactions on Information Forensics and Security	vol. 3, no. 1	PDF	Html
IEEE Transactions on Signal Processing	vol. 56, no. 5	PDF	Html
IEEE Signal Processing Letters	vol. 15		Html
IEEE Journal of Selected Topics in Signal Processing <ul style="list-style-type: none"> Signal Processing and Networking for Dynamic Spectrum Access 	vol. 2, no. 1	PDF	Html
Journal Title	Latest Issue	Contents (in PDF)	Xplore Link
IEEE Transactions on Medical Imaging	vol. 27, no. 5	PDF	Html
IEEE Transactions on Mobile Computing	vol. 7, no. 6	PDF	Html
IEEE Transactions on Multimedia	vol. 10, no. 3	PDF	Html
IEEE Sensors Journal	vol. 8, no. 4	PDF	Html
IEEE Transactions on Wireless Communications	vol. 7, no. 4	PDF	Html
Computing in Science & Engineering Magazine	vol. 10, no. 3	PDF	Html
IEEE MultiMedia	vol. 15, no. 1	PDF	Html

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4. TC News

Industry Digital Signal Processing Technology Standing Committee (IDSP SC)

The SPS Industry Digital Signal Processing Technology Standing Committee ([IDSP SC](#)) was formed in 1999 to promote industry participation in the IEEE Signal Processing Society (SPS) and in ICASSP. It was officially recognized as a standing committee of the SPS Conference Board in June 2000. In May 2002, the Society approved that the Standing Committee begin functioning like a Technical Committee. The Standing Committee has organized the Industry Technology Track (ITT) at ICASSP since 1999. Fields of interest span those covered by the Technical Committees of the SPS but special emphasis is placed on practical industry applications of signal processing. The [ITT EDICS](#) lists 10 broad categories and 36 subcategories of areas of interest. Learn more about the IDSP SC through this [exclusive in-depth report](#).

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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
Denver, CO	8-May-2008	Prof. Rama Chellappa (University of Maryland, College Park): "Recent Advances in Face Recognition". Contact Joan Mitchell [joanm AT us.ibm.com] for more information.
Vancouver	8-May-2008	Prof. Tsuhan Chen (Carnegie Mellon University): "From Image Analysis to Content Extraction: Are We There Yet?" See chapter web site for more information.
Santa Clara Valley	12-May-2008	Prof. Aggelos K. Katsaggelos (Northwestern University): "Content-Adaptive Efficient Resource Allocation for Packet-Based Video Transmission." See chapter web site for more information.
Chapter	Dates	Other Upcoming Events
Baltimore	6-May-2008	Dr. Chein-I Chang (University of Maryland, Baltimore County): "Hyperspectral Imaging: An Emerging Technique in Remote Sensing." See chapter web site for more information.
Northern Virginia	10-May-2008	Spring 2008 Symposium by IEEE Northern Virginia and Washington Sections on "Technology for the Golden Years: Leading an Independent Life in the 21st Century." See web announcement and detailed PDF handout .
Washington, DC	12-May-2008	Prof. Nitish Thakor (Johns Hopkins University): "Using Brain Waves to Link Thoughts and Action." At 5:30pm, University of Maryland - College Park. See web announcement for more information.
Central Texas	15-May-2008	Dr. Arthur Smith (KEYE-TV): "Ready or not, here comes Digital TV," at 6:30pm at National Instruments, Room 1S13, Building C, 11500 N Mopac Expy, Austin, TX. RSVP or inquire more information to Steve Crowl <scrowl AT ieee.org>.
Baltimore	21-May-2008	Dr. Marshall Greenspan (Northrop Grumman Corporation): "MIMO Radar Signal Processing of Space-Time Coded Waveforms." See chapter web site for more information.
Northern Virginia	29-May-2008	Dr. Wallace Larimore (Adaptics Inc): "Automated & Adaptive Modeling, Detection, Prediction, and Control." At 7pm at Mitre Corporation Building #2. See chapter website and detailed PDF handout .
Santa Clara Valley	2-June-2008	Dr. Keigo Hirakawa (Harvard University): "Enhancing Image Fidelity through Spatio-Spectral Design for Color Image Acquisition, Reconstruction, and Display." 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

Benford's Law and Forensic Accounting

Benford's Law is an interesting property in natural occurring numbers that can help identify fraudulent data. One application is in forensic accounting, to identify false or otherwise misrepresented information in corporate financial records. The March 2008 issue of the IEEE Signal Processing Magazine featured an "**In the Spotlight**" column article on Benford's Law and its applications in forensic accounting and other areas of forensic science from a signal processing perspective. Click [here](#) to learn more.

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

Web Resource on Random Set Filtering

Stochastic filtering algorithms, such as Kalman filters and particle filters, are widely used in signal processing for applications in target tracking. The extension from a single-target scenario to a multiple-target environment is non-trivial since the number of targets may not be known and varies with time, there are missed detections where the target is not observed, and observations may be false alarms due to clutter. The random set filtering approach to multiple-target tracking using Finite Set Statistics is receiving increasing interest due to the success of practical implementations of Probability Hypothesis Density filters. A web resource site on [random set filtering](#) has been established. The aim of this website is to provide a focal point for research activities related to this work, including a list of articles and links to some key results over the last 15 years. [Click here](#) to learn more about the web resource on random set filtering.

Lecture Notes featured in the latest issues of the IEEE Signal Processing Magazine

- "**Locality-Sensitive Hashing for Finding Nearest Neighbors**" by M. Slaney and M. Casey ([March 2008](#))
- "**Rethinking Biased Estimation**" by S. Kay and Y.C. Eldar ([May 2008](#))

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8. New PhD Theses

Teruhisa Misu (Kyoto University, Kyoto, Japan):

"Speech-based Navigation Systems based on Information Retrieval and Question-Answering with Optimal Dialogue Strategies," March 2008. Advised by Prof. Tatsuya Kawahara.

This thesis addresses a speech-based information navigation system using a set of documents as a knowledge base. Most of conventional speech-based document retrieval systems were one question and one answer type, because neither database slot nor dialogue procedures can be well-defined unlike relational database query tasks. In order to realize a dialogue in such a task, we introduce bottom-up and top-down knowledge to dynamically generate confirmation, clarification and questions to users. These processes are optimized by introducing criteria, which are defined based on the results of document retrieval as well as the ASR results. We also design an interactive scheme by incorporating the question-

answering (QA) technique to follow-up the initial query for effective navigation. The QA technique is also used to generate system-initiated recommendations. The proposed dialogue strategies were implemented in software support and sightseeing guidance tasks. The effectiveness of the proposed dialogue framework was confirmed through a field trial with a number of actual novice users.

Click [here](#) to download the thesis or contact [the author](#) for more information.

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 <piva AT lci.det.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

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

[Description from the publisher](#): Data compression is one of the most important tools in modern computing, and there has been tremendous progress in all areas of the field. This fourth edition of *Data Compression* provides an all-inclusive, thoroughly updated, and user-friendly reference for the many different types and methods of compression (especially audio compression, an area in which many new topics covered in this revised edition appear).

An in-depth review is available in the [March 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 [\[details\]](#)

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.

Foundations and Applications of Sensor Management, edited by A.O. Hero, D. Castañón, D. Cochran, and K. Kastella, Springer, 2008.

Adaptive Nonlinear System Identification: The Volterra and Wiener Model Approaches, by Tokunbo Ogunfunmi, Springer, September 2007.

A First Course in Statistics for Signal Analysis, by W.A. Woyczynski, Birkhauser Publishing, 2006.

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10. Research Opportunities

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

- 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

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Contributors of articles in this issue:

Daniel Clark, Michael Deisher, and Ba-Ngu Vo.

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 June '08 Issue Due May 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 **May 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

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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 (piva AT lci.det.unifi.it)
News and activities in local chapters and research groups (including new Ph.D. theses)

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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In-Depth E-News Articles

Exclusive Report from Industry Digital Signal Processing Technology

Standing Committee (IDSP SC)

by Michael Deisher (Committee Chair)



The SPS Industry Digital Signal Processing Technology Standing Committee ([IDSP SC](#)) was formed in 1999 to promote industry participation in the IEEE Signal Processing Society (SPS) and in ICASSP. It was officially recognized as a standing committee of the SPS Conference Board in June 2000. In May 2002, the Society approved that the Standing Committee begin functioning like a Technical Committee. The Standing Committee's Fields of interest span those covered by the Technical Committees of the SP Society but special emphasis is placed on practical industry applications of signal processing. The IDSP SC has organized the Industry Technology Track (ITT) at ICASSP since 1999. Please see the [ITT EDICS](#) for specific areas of interest which cover 10 broad categories and 36 subcategories.

The IDSP SC members are elected from SP Society membership in industry, government, or academia with strong industry involvement. The Chair and Secretary are elected from among the membership for one year terms. Currently, Michael Deisher (Intel) is Chair and Sohail Dianat (Rochester Institute of Technology) is Secretary. At this time, there are 24 active members, including 18 from industry and six from academia. Although most members are from the US, nominations are being actively sought from the other geographic regions. Member responsibilities include reviewing for ICASSP conferences and IDSP SC sponsored workshops, promoting activities in the Signal Processing Society related to industry, promoting papers with strong industrial application content and nominating them for awards, and organizing special sessions and workshops on industrial DSP technology.

The most recent activity of the IDSP SC was to organize the Industry Technology Track at ICASSP 2008 in Las Vegas, where there were 99 papers submitted. The final program of the Industry Technology Track at ICASSP 2008 consisted of 3 poster and 3 lecture sessions. IDSP SC members also organized an ICASSP special session on "Industry Perspectives on Multimedia for Mobile Phones." In addition, the IDSP SC organized the first Workshop on Signal Processing Applications for Public Security and Forensics ([SAFE 2007](#)) in Washington, D.C. in Spring 2007. Since its inception, the IDSP SC has organized two special industry-related issues for the Signal Processing Magazine ([March 2000](#) and [July 2002](#)).

If you would like to get involved in the work of the Industry DSP Technology Standing Committee, want to contribute ideas, suggestions, or would like to learn more about it, please contact Michael Deisher <michael.deisher AT intel.com> or visit the [IDSP SC website](#).

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Web Resource on Random Set Filtering

by Daniel Clark (Heriot-Watt University, UK)
Ba-Ngu Vo (University of Melbourne, Australia)

Stochastic filtering algorithms, such as Kalman filters and particle filters, are widely used in signal processing for applications in target tracking. These algorithms take their input measurements from sensors which provide the signals such as radar, sonar or video. The measurements are taken at regular intervals and the task is to estimate the state of a target at each point in time, such as its position, velocity, or other attribute. Successive estimates provide the tracks which describe the trajectory of a target. The extension from a single-target scenario to a multiple-target environment is non-trivial since the number of targets may not be known and varies with time, there are missed detections where the target is not observed, and observations may be false alarms due to clutter. The first systematic treatment of multi-sensor multi-target filtering using random set theory was conceived by Ron Mahler in 1994 [[ref](#)], which later developed into finite set statistics (FISST).

The random set filtering approach to multiple-target tracking using Finite Set Statistics is receiving

increasing interest due to the success of practical implementations of Probability Hypothesis Density (PHD/CPHD) filters. A [web resource site](#) on random set filtering has been established. The aim of this website is to provide a focal point for research activities related to this work, including a list of articles and links to some key results over the last 15 years.

In order to facilitate greater awareness and appreciation of this area of research, the web site has a demonstration section to provide background information and video demonstrations of tracking with PHD/CPHD filters on a variety of sensor data including sonar, radar, video and millimeter wave images, along with simulated examples illustrating the performance in more controlled scenarios. It also maintains a list of researchers working in this field internationally, with over a dozen countries currently being represented.

Researchers working in this area are invited to contribute information on publications, theses and tracking videos. Information on relevant events and vacancies are also welcome and can be publicized through this website. Please send inquiries and contributions to Dr. Daniel Clark <D.E.Clark AT hw.ac.uk> or Dr. Ba-Ngu Vo <bv AT ee.unimelb.edu.au>.

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IEEE Signal Processing Magazine 2008 - Hosted by the [Digital Video and Multimedia Lab](#) at [Columbia University](#)
Inside Signal Processing E-Newsletter Hosted by the [Communications and Signal Processing Labs](#) at [University of Maryland](#)