

A Message from the New Editor-in-Chief

IT is with a sense of responsibility and duty that I begin my tenure as Editor-in-Chief of the IEEE TRANSACTIONS ON SIGNAL PROCESSING, following on the footsteps of Arye Nehorai and José M. F. Moura, who have been serving the Society with distinction. My challenge is to maintain the momentum initiated under their leadership and to continue moving with the Transactions to new heights. I have set three objectives for my term:

- i) to showcase the breadth of signal processing;
- ii) to improve even further the status of the TRANSACTIONS as the leading reference in the field;
- iii) to smooth the review process.

The first objective is imperative if we are to demonstrate the penetration of signal processing techniques to a wide range of areas, some of which may not be encompassed by our traditional view of the subject (e.g., sensor networks, wireless networks, biosystems, wearable computing, manufacturing, human-machine interfaces, optical processing, etc.). The TRANSACTIONS needs to show the long reach of signal processing opportunities. By expanding the specialties covered by our editorial board, I hope to expand the Transactions to include new and emerging technologies with a rich signal processing component. This can be accomplished through regular submissions and special issues. The second objective—the continuing pursuit of quality—will require the steady application of the efforts of all editorial board members to achieve. Only articles of exceptional merit will be published. The reputation of the TRANSACTIONS must be cemented as being of the highest quality and repute.

Two steps to assist in this goal are already in place. The restoration of “correspondences” to the TRANSACTIONS permits the publication of an idea that, although complete, is not a complete revelation; this permits more rapid publication of new science for comment. Correspondences will be treated separately from journal articles and will succeed on their merits in their own category. Journal articles that are not successful in the review process will not be reduced to correspondence length. Therefore, it is important to understand that “correspondences” are not journal articles that have failed to pass muster. In addition, authors of articles that have been rejected will be discouraged from resubmitting revised versions to the TRANSACTIONS unless substantial changes and significant new material are incorporated into the resubmission.

The third objective pertains to manuscript submission and handling. One of the most notable achievements by the IEEE Signal Processing Society in the last few years has been the transition to an electronic submission system. The one we use is Manuscript Central (affectionately called “MC”). This system allows authors, reviewers, and associate editors to handle, electronically, all steps from submission to final decision. MC

has also helped to streamline some of the previously tedious functions such as the mailing of manuscripts and reviews, via post, back and forth. The system functions reasonably well, and although it is not our system (that is, we did not design it, nor do we own it), there is the possibility for improvement. I plan, for example, to improve the MC reviewer database. To that end, authors who publish in the TRANSACTIONS will be expected to review the articles of others and to register as reviewers.

In the near future, I will also be working to improve the website for the IEEE TRANSACTIONS ON SIGNAL PROCESSING so that readers and authors will be able to access useful information, provide feedback, praise hard-working volunteer efforts, and even nominate articles for awards. Stay tuned!

Thus, I am counting on your support as we work together to increase the already high scientific and publication values of the IEEE TRANSACTIONS ON SIGNAL PROCESSING. It's a wonderful challenge and definitely worthwhile.

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He is currently Professor and Vice-Chair of electrical engineering at the University of California, Los Angeles. He is also the Principal Investigator of the UCLA Adaptive Systems Laboratory (www.ee.ucla.edu/asl). He has over 180 journal and conference publications, is the author of the forthcoming textbook *Fundamentals of Adaptive Filtering* (New York: Wiley, 2003), is coauthor of the research monograph *Indefinite Quadratic Estimation and Control* (Philadelphia, PA: SIAM, 1999) and of the graduate-level textbook *Linear Estimation* (Englewood Cliffs, NJ: Prentice-Hall, 2000). He is also co-editor of the volume *Fast Reliable Algorithms for Matrices with Structure* (Philadelphia, PA: SIAM, 1999). He is a member of the editorial boards of the *SIAM Journal on Matrix Analysis and Its Applications* and the *International Journal of Adaptive Control and Signal Processing* and has served as coeditor of special issues of the journal *Linear Algebra and Its Applications*. He has contributed several articles to engineering and mathematical encyclopedias and handbooks and has served on the program committees of several international meetings. He has also consulted with industry in the areas of adaptive filtering, adaptive equalization, and echo cancellation. His research interests span several areas including adaptive and statistical signal processing, filtering and estimation theories, signal processing for communications, interplays between signal processing and control methodologies, system theory, and fast algorithms for large-scale problems.

Dr. Sayed is recipient of the 1996 IEEE Donald G. Fink Award, a 2002 Best Paper Award from the IEEE Signal Processing Society in the area of Signal Processing Theory and Methods, and co-author of two Best Student Paper awards at international meetings. He is also a member of the technical committees on Signal Processing Theory and Methods (SPTM) and on Signal Processing for Communications (SPCOM), both of the IEEE Signal Processing Society. He is a member of the editorial board of the IEEE SIGNAL PROCESSING MAGAZINE. He has also served twice as Associate Editor of the IEEE TRANSACTIONS ON SIGNAL PROCESSING and is now serving as Editor-in-Chief of the TRANSACTIONS.