Ghassan AlRegib Area Editor, Columns and Forums alregib@gatech.edu http://signalprocessingsociety.org/ publications/periodicals/spm



From Admiration, Celebration, and Guessing to Innovation

t the time of this writing (February 2010), I, just like many other colleagues, am finalizing my travel arrangements to attend the 35th International Conference on Acoustics, Speech, and Signal Processing (ICASSP) in Dallas, Texas, 14-19 March 2010. Of course, you are reading this editorial in May 2010, a few weeks or more after ICASSP. This sequence of events will hopefully (the best one can aim for!) make this editorial resonate. Over the past few days, I have been going through the various Web pages on the ICASSP Web site and the activities planned during that week in March; it is all exciting, very

exciting. Of course, those who have papers at ICASSP will attend to share their findings and results with other colleagues, and will conduct oral presentations or posters. But besides this main activity of presenting papers, I am looking forward to meeting colleagues and friends, discussing and exchanging ideas, listening to a well-planned series of plenary talks, attending several technical and special sessions that are most related to my own research, learning about the new trends and ideas, attending the IEEE Thematic Meetings on Signal Processing (THEMES), meeting new people, touring the show and tell event, and of course participating in various social activities, including the reception and the banquet. I feel ICASSP is our Society's annual celebration, perhaps the digital signal processing (DSP) Davos?

I was looking for a title to this editorial, a title that captures how I felt when I went through the online ICASSP program, and I found inspiration while reading the title and the abstract of the first plenary talk by Dr. Ronald W. Schafer. The title of the talk is "Celebrating the Science and Technology of DSP." The last statement in the abstract is "The goal of this analysis is to provide a platform from which to admire and celebrate the past progress and make guesses about what the future might hold for the field of DSP." Indeed, as we enter a new decade, we are more optimistic than ever about the future of DSP and we have a

(continued on page 18)

Digital Object Identifier 10.1109/MSP.2010.936445

IFFF SIGNAL PROCESSING MAGAZINE Li Deng, Editor-in-Chief - Microsoft Research

AREA EDITORS

Feature Articles -- Antonio Ortega, University of Southern California Columns and Forums — Ghassan AlRegib, Georgia Institute of Technology Special Issues — Dan Schonfeld, University of Illinois at Chicago e-Newsletter — Min Wu, University of Maryland

EDITORIAL BOARD Alex Acero — Microsoft Research John G. Apostolopoulos - Hewlett-Packard Laboratories

Les Atlas — University of Washington Jeff Bilmes — University of Washington Holger Boche — Fraunhofer HHI, Germany Liang-Gee Chen - National Taiwan University Ed Delp — Purdue University Adriana Dumitras - Apple Inc. Brendan Frey — University of Toronto Sadaoki Furui — Tokyo Institute of Technology,

Janan Alex Gershman — Darmstadt University of Technology, Germany

Mazin Gilbert - AT&T Research Jenq-Neng Hwang — University of Washington Alex Kot — Nanyang Technological University, Singapore

Vikram Krishnamurthy — University of British Columbia, Canada Chin-Hui Lee — Georgia Institute of Technology

Digital Object Identifier 10.1109/MSP.2010.936096

Jian Li - University of Florida-Gainesville Tom Luo — University of Minnesota Soo-Chang Pei — National Taiwan University Fernando Pereira — ISTIT, Portugal Roberto Pieraccini — Speech Cycle Inc. Majid Rabbani — Eastman Kodak Company Phillip A. Regalia — Catholic University of America Nicholas Sidiropoulos — Tech University of Crete, Greece Yoram Singer — Google Research Henry Tirri - Nokia Research Center

Patrick J. Wolfe — Harvard University **ASSOCIATE EDITORS-**

Anthony Vetro — MERL

COLUMNS AND FORUM Andrea Cavallaro — Queen Mary, University of London

Xiaodong Wang — Columbia University

Berna Erol - Ricoh California Research Center

Rodrigo Capobianco Guido — University of Sao Paulo, Brazil

Deepa Kundur -Texas A&M Andres Kwasinski — Rochester Institute of Technology

Yen-Chi Lee — Nokia Research Rick Lyons — Besser Associates

Aleksandra Mojsilovic — IBM T.J. Watson Research Center

Douglas O'Shaughnessy — INRS, Canada C. Britton Rorabaugh — DRS C3 Systems Co. Greg Slabaugh - Medicsight PLC, Alessandro Vinciarelli — IDIAP–EPFL Stephen T.C. Wong — Methodist Hospital-Cornell

Dong Yu — Microsoft Research

ASSOCIATE EDITORS—F-NEWSLETTER Nitin Chandrachoodan - India Institute

of Technologies Pascal Frossard — EPFL, Switzerland Yan Lindsay Sun -- University of Rhode Island Z. Jane Wang -- University of British Columbia, Canada

IEEE PERIODICALS
MAGAZINES DEPARTMENT

Geraldine Krolin-Taylor — Senior Managing

Jessica Barragué—Associate Editor Susan Schneiderman — Business Development Manager

+1 732 562 3946 Fax: +1 732 981 1855 Felicia Spagnoli — Advertising Production Mgr. Janet Dudar — Senior Art Director Gail A. Schnitzer — Assistant Art Director Theresa L. Smith — Production Coordinator Theresa L. Shind Dawn M. Melley — Editorial Director Tuohy — Production Director Publisl Fran Zappulla — Staff Director, Publishing Operations

IEEE prohibits discrimination, harassment, and bullying. For more information, visit http://www.ieee.org/web/ aboutus/whatis/policies/p9-26.html.

IEEE SIGNAL PROCESSING SOCIETY

Associate Editor

Mos Kaveh — President K.J. Ray Liu — President-Elect Michael D. Zoltowski — Vice President, Awards and Membership V. John Mathews — Vice President, Conferences Min Wu — Vice President, Finance Ali H. Sayed - Vice President, Publications Ahmed Tewfik — Vice President, Technical Directions Mercy Kowalczyk — Executive Director and