



Alex Acero

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New Machine Learning approaches to Speech Recognition

Abstract

In this talk I will describe some new approaches to speech recognition that leverage large amounts of data using techniques from information retrieval and machine learning.

Speaker Bio

(picture and more at <http://research.microsoft.com/en-us/people/alexac/>) Alex Acero received a M.S. degree from the Polytechnic University of Madrid, Madrid, Spain, in 1985, a M.S. degree from Rice University, Houston, TX, in 1987, and a Ph.D. degree from Carnegie Mellon University, Pittsburgh, PA, in 1990, all in Electrical Engineering. Dr. Acero worked in Apple Computer's Advanced Technology Group in 1990-1991. In 1992, he joined Telefonica I+D, Madrid, Spain, as Manager of the speech technology group. Since 1994 he has been with Microsoft Research, Redmond, WA, where he is presently a Research Area Manager directing an organization with 70 engineers conducting research in audio, speech, multimedia, communication, natural language, and information retrieval. He is also an affiliate Professor of Electrical Engineering at the University of Washington, Seattle.

Dr. Acero is author of the books "Acoustical and Environmental Robustness in Automatic Speech Recognition" (Kluwer, 1993) and "Spoken Language Processing" (Prentice Hall, 2001), has written invited chapters in 4 edited books and 200 technical papers. He holds 78 US patents. Dr. Acero is a Fellow of IEEE. He has served the IEEE Signal Processing Society as Vice President Technical Directions (2007-2009), Director Industrial Relations (2009-2011), 2006 Distinguished Lecturer, member of the Board of Governors (2004-2005), Associate Editor for IEEE Signal Processing Letters (2003-2005) and IEEE Transactions of Audio, Speech and Language Processing (2005-2007), and member of the editorial board of IEEE Journal of Selected Topics in Signal Processing (2006-2008) and IEEE Signal Processing Magazine (2008-2010). He also served as member (1996-2000) and Chair (2000-2002) of the Speech Technical Committee of the IEEE Signal Processing Society. He was Publications Chair of ICASSP98, Sponsorship Chair of the 1999 IEEE Workshop on Automatic Speech Recognition and Understanding, and General Co-Chair of the 2001 IEEE Workshop on Automatic Speech Recognition and Understanding. Since 2004, Dr. Acero, along with co-authors Drs. Huang and Hon, has been using proceeds from their textbook "Spoken Language Processing" to fund the "IEEE Spoken Language Processing Student Travel Grant" for the best ICASSP student papers in the speech area. Dr. Acero served as member of the editorial board of Computer Speech and Language and member of Carnegie Mellon University Dean's Leadership Council for College of Engineering.

