Gonzalo R. Arce

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Professional Preparation

Bachelor of Science in Electrical Engineering (1979) *Summa Cum Laude*
University of Arkansas, Fayetteville, AR 72701.

Master of Science in Electrical Engineering (1980) Purdue University, IN 47907.

Ph.D. in Electrical Engineering (1982) Purdue University, West Lafayette, IN 47907.

Appointments

Fulbright-Nokia Distinguished Chair in
Information and Communications Technologies
Aalto University, Helsinki, Finland. 2010,2017.

University of Delaware, Newark, DE 19716
Department of Electrical and Computer Engineering
JPMorgan Chase Faculty Fellow 2014- 2017; Charles Black Evans Professor 2004- present; Chairman 2000-2009; Professor 1992-2000; Associate Professor 1987-1992; Assistant Professor 1982-1987

Previous Relevant Experience

Dr. Arce has extensive experience in compressive sensing research and development. He has served as principal investigator of several compressive sensing research projects funded by the National Science Foundation, ARO, and ONR. He teaches a graduate course on compressive sensing at the University of Delaware, and has taught short courses on compressive sensing and imaging at various international conferences.

Awards and Honors

Fulbright-Nokia Distinguished Chair in Information Technologies and Communications Helsinki, Finland (2010,2017);

JPMorgan Chase Faculty Fellow at the Institute of Financial Services Analytics, (2017-2019). Elected Member, Arkansas Academy of Engineering, University of Arkansas (2008); DuPont Young Investigator Award (1986); DuPont Science and Engineering Award (1998, 2002, 2008); Fellow of the IEEE (2000); Fellow, Center for Advanced Studies, University of Delaware (1998); ARL ATIRP Federated Laboratory Symposium Best Paper Award (1997); Best Scientific Paper Award, Whitaker Foundation (1995); ASEE Teaching Fellow (1992); National Science Foundation Research Initiation Award (1983); Graduate advisor to four Allan P. Colburn Prize Dissertations.

Books

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[1]. X. Ma and G. R. Arce, "Computational Lithography," Wiley & Sons, 2010.

[2]. D. Lau and G. R. Arce, "Modern Digital Halftoning," 2nd ed., CRC Press, 2008.

[3]. G. R. Arce, "Nonlinear Signal Processing," Wiley & Sons, 2004.

[4]. K. Barner and G. R. Arce, editors, "Nonlinear Signal and Image Processing," CRC Press, 2004.

[5]. D. Lau and G. R. Arce, "Modern Digital Halftoning," Marcel Deckker, New York, 2001.

Five Journal Publications Most Relevant to the Proposed Research

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[1]. A. Rauh and G. R. Arce, "Optimized Spectrum Permutation for the Multidimensional Sparse FFT," in IEEE Transactions on Signal Processing, vol. 65, no. 1, pp. 162-172, Jan.1, 1 2017.

[2]. A. Parada-Mayorga and G. R. Arce, "Spectral Super-Resolution in Colored Coded Aperture Spectral Imaging," in IEEE Transactions on Computational Imaging, vol. 2, no. 4, pp. 440-455, Dec. 2016.

[3]. C. V. Correa, H. Arguello, and G. R. Arce, "Spatiotemporal blue noise coded aperture design for multi-shot compressive spectral imaging," J. Opt. Soc. Am. A 33, 2312-2322 (2016)

[4]. W. Feng, H. Rueda, C. Fu, G. R. Arce, W. He, and Q. Chen, "3D compressive spectral integral imaging," Opt. Express 24, 24859-24871 (2016)

[5]. J. Tan, Y. Ma, H. Rueda, D. Baron and G. R. Arce, "Compressive Hyperspectral Imaging via Approximate Message Passing," in IEEE Journal of Selected Topics in Signal Processing, vol. 10, no. 2, pp. 389-401, March 2016.
