Assistant Professor in Signal Processing
School of Arts, Media and Engineering and School of Electrical, Computer, and Energy Engineering
Arizona State University

The School of Arts, Media, and Engineering and the School of Electrical, Computer, and Energy Engineering at Arizona State University are seeking outstanding candidates for a joint tenure-track position beginning in Fall 2016, with a tenure home in the School of Arts, Media and Engineering. Priority areas include signal / image processing, statistics and machine learning, optics / imaging, as well as applied mathematics with a focus in the aforementioned areas. We are particularly interested in candidates interested in fostering inter-disciplinary scholarly collaboration: including but not limited to engineering, science, arts, and/or humanities.

Arizona State University is a new model for American higher education, an unprecedented combination of academic excellence, entrepreneurial energy and broad access. This New American University is a single, unified institution comprising four differentiated campuses positively impacting the economic, social, cultural and environmental health of the communities it serves. Its research is inspired by real world application blurring the boundaries that traditionally separate academic disciplines. ASU serves more than 80,000 students in metropolitan Phoenix, Arizona, the nation's fifth largest city. ASU champions intellectual and cultural diversity, and welcomes students from all fifty states and more than one hundred nations across the globe.

The Herberger Institute for Design and the Arts, the largest comprehensive design and arts school in the nation, is a vibrant example of the of the New American University philosophy. With 4,700 students, more than 400 faculty and faculty associates, 135 degrees and a tradition of top-ranked programs, the Herberger Institute is built on a combination of disciplines unlike any other program in the nation. The institute includes the School of Art, The School of Arts, Media + Engineering, The Design School, The School of Film, Dance and Theatre, The School of Music, and the ASU Art Museum. Through recognizing that design and the arts are critical resources for transforming society and solving complex problems, the Herberger Institute is committed to positioning artists, scholars, designers, and educators at the center of public life. http://herbergerinstitute.asu.edu/

The School of Electrical, Computer and Energy Engineering has programs in electrical engineering and computer engineering with approximately 1800 students, 70 faculty and $31 million in annual research expenditures. The Ira A. Fulton Schools of Engineering include nearly 19,000 students and over 300 faculty members who conduct nearly $100 million in research, spanning a broad range of engineering, construction and technology fields. The schools’ educational programs emphasize problem solving, entrepreneurship, multidisciplinary interactions, social context and connections.

The School of Arts, Media and Engineering is a uniquely transdisciplinary program in media arts and sciences. The appointee will be supported to collaborate with other faculty in significantly advancing experiential media and more broadly the relation between culture and computing. The appointee is expected to further existing research connections between the School of Arts, Media and Engineering and the Fulton Schools of Engineering in areas of common interest related to the appointee’s interests and strengths.
The School of Arts, Media and Engineering offers a PhD and a Masters in media arts and sciences, an undergraduate BA in Digital Culture (http://digitalculture.asu.edu) with concentrations in nine collaborating units spanning the arts, design, sciences and engineering. The successful candidate is expected to be involved in the development of new undergraduate and graduate curriculum in Digital Culture, and further develop our connections to the public and private sector. The school has state-of-the-art facilities for the development of embodied interactive media systems with focus on rehabilitation, education, cultural networks and enactive art. AME faculty can access significant federal, private foundation and industry support along with clinical, education and cultural partnerships to develop and deploy these systems.

Faculty at the School of Arts, Media and Engineering direct two paradigm-shifting centers of research: the Center for Science and the Imagination (http://csi.asu.edu), and Synthesis (http://synthesis.ame.asu.edu).

Required Qualifications
PhD – or an equivalent terminal degree -- in Electrical Engineering, or closely related field. Record of scholarly publication in signal processing, computer vision, pattern recognition, image processing, or machine perception. Evidence of potential for applying signal processing or mathematical methods to novel problem domains for example, from everyday activity in quotidian or performative environments. Evidence of potential for mentoring graduate students and winning external funding for research.

Desired Qualifications
We seek a candidate who can relate research in the above areas to applications in a variety of areas in collaboration with colleagues. We value interest in learning to explain central ideas in signal processing and electrical engineering to students from a variety of backgrounds.

Application Deadline
Application deadline is April 10, 2016; if not filled, every week thereafter until search is closed. Screening of candidates will begin immediately; for best consideration, application materials should be provided by the application deadline.

Application Procedure
Send a letter of interest, CV, statement of research, statement of teaching vision (consistent with the transdisciplinary nature at AME), three to five representative publications and/or media products, and names, addresses and telephone numbers for three to five professional references, via one zipped attachment, to: ActiveMat-search@asu.edu. Zipped files sent to this email address are limited to 10MB. For larger files, candidates may alternatively provide a URL to which the search committee may access the candidate’s materials. Please note that if a URL is provided, the site must include only the above requested documents in order for the application packet to meet the requirements. For more information, please email: xinwei.sha@asu.edu

ASU conducts pre-employment screening for all positions, which includes a criminal background check, verification of work history, academic credentials, licenses and certifications.
Arizona State University is a VEVRAA Federal Contractor and an Equal Opportunity/Affirmative Action Employer. All qualified applicants will be considered without regard to race, color, sex, religion, national origin, disability, protected veteran status, or any other basis protected by law. See ASU’s complete non-discrimination statement at https://asu.edu/aad/manuals/acd/acd401.html See ASU’s Title IX policy at https://www.asu.edu/titleIX/