

Stan Ahalt

INVITED MEETINGS AND PRESENTATIONS (*OUTSIDE OF USA)

UPCOMING

- 2015 Software & Data Citation Workshop, Arlington, VA; organizing committee member, panelist
- 2015 Green Infrastructure Venture meeting, SESYNC Inc, Annapolis, MD; panelist
- 2015 SI² PI Workshop, Arlington, VA; invited panelist
- 2015 Front Line Genomics – Transitional and Clinical Genomics; Boston, MA; invited panelist

COMPLETED

- 2014 Food for Thought series, UNC-CH, 2014
- 2014 Research Priorities for the Science Data Enterprise, ESIP Federation, Washington DC
- 2014 Big Data Science Conference, Stanford U, Palo Alto, CA; chair
- 2014 8th International Congress on Environmental Modeling and Software (iEMSs), San Diego, CA
- 2014 HPC User Forum, Santa Fe, NM; invited speaker;
- 2014 UK-US Data Analytics Workshop; U of Maryland, College Park, MD; invited speaker;
- 2014 Data Science Symposium, NIST, Gaithersburg, MD ***did not attend due to winter weather issues
- 2014 SI² PI Workshop, Arlington, VA; panelist on “Career Paths” and “Software Institute” panels
- 2013* CCF CNCC 2013 sponsored by IEEE CS, Changsha, China; **Keynote presentation** “Why Data Science?”
- 2013* COINFO’13, 25-27, Wuhan, China; plenary;
- 2013 Big Data Workshop Series, U of Georgia, Athens, GA & Science Executive Workshop, U of Georgia, Atlanta, GA
- 2013 Role of GI Venture Symposium, Sesync Inc, Annapolis, MD;
- 2013 CUAHSI Conference on Hydroinformatics and Modeling, Utah State U, Logan, UT; **Keynote Presentation** “Building community resources, infrastructure, and collaboration through a Water Science Software Institute”
- 2012 Office of Science and Technology, presentation: “The Case for a National Strategy for Data Science”
- 2012 NIEHS, RTP – seminar series, presentation: “The National Consortium for Data Science”
- 2012* Universidad Carlos III de Madrid, seminar series
- 2011* EU Horizon 2020/ALLEA, Rome, Italy,
- 2011 North Carolina State University College of Engineering, seminar series, “RENCI: Enabling Research through the Science of Cyberinfrastructure”
- 2010 Represented CASC at National Academies of Science Board Meeting on Research Data and Information
- 2010 2010 Records & Informations, Data and Data Management Conference, Central Intelligence Agency, Langley, VA, **Keynote presentation** “Finding Meaning in a Deluge of Data”

- 2010 RedHat Inc, Raleigh, NC – presentation “RENCI and the Science of Cyberinfrastructure”
 2010 IBM, RTP, NC – presentation “RENCI and the Science of Cyberinfrastructure”
- 2009* ADCOM 2009, IISC, Bangalore, India, **Keynote presentation** “Industrial and Social Computing”
- 2009 Great Plains Network Annual Meeting, Kansas City, KS, **Keynote presentation** “The Ohio Supercomputer Center: Research Overview and Economic Competitiveness Activities”
- 2009 HPC Forum, Roanoke, VA, “Blue Collar Computing: Lessons Learned”
- 2008 DICE Program Review, Cincinnati, OH, “Data Intensive Computing Environments”
- 2007* Royal Academy of Engineering, Madrid, Spain, **Keynote presentation** “OSC: 20 years of service to Ohio”
- 2007 Educational Technology Conference: eTech Ohio K-12 teacher’s conference, Columbus, OH, “The impact of the TFN on education in Ohio”
- 2006 NSF Cyberinfrastructure and Chemical and Biological Process Systems Workshop, Washington, DC.
- 2005 High Performance Computing Technology Pellissippi Conference, **Keynote presentation** “Blue Collar Computing”
- 2005 Federal Management of Change Conference (MOC), Philadelphia PA, “HPC as an economic driver”
- 2004 SC2004, Pittsburgh PA, **Keynote presentation** “HPC as an Economic Engine: Blue Collar Computing”
- 2004 Columbus Rotary Club, Columbus, OH, “Blue Collar Computing”
- 2004 CoC/DARPA Workshop on HPC, “Barriers to Industry HPC Usage”
- 2004 DARPA HLL Workshop, Santa Monica, CA, “High level languages for HPC”
- 2004 NSF Cyberinfrastructure and Chemical and Biological Process Systems Workshop, Washington, DC.
- 2003 Summer Institute on Advanced Computation, “Supercomputing and Homeland Security”
- 2002 Aerosense Conference, Orlando, FL, “Content-based Image and Video Compression,” S. C. Ahalt, X. Du, and H. Li, *Proceedings of SPIE Vol. 4727, Algorithms for Synthetic Aperture Radar Imagery, IX*
- 2002 International Conference on Machine Learning and Applications, Las Vegas, NV, “Modified Kernel-based Nonlinear Feature Extraction,” Junshui Ma, Simon Perkins, James Theiler and Stanley Ahalt, *Proceedings of the 2002 International Conference on Machine Learning and Application*
- 2001 Aerosense Conference, Orlando, FL:
 Junshui Ma and Stan Ahalt, “Parameter Estimation Algorithms based on a Physics-based HRR Moving Target Model,” *Proceedings of Algorithms for Synthetic Aperture Radar Imagery VII*;

- Junshui Ma and Stan Ahalt, "Parameter Estimation Algorithms based on a Physics-based HRR Moving Target Model," *Proceedings of Algorithms for Synthetic Aperture Radar Imagery VII, SPIE Aerosense*;
- Junshui Ma, Honglin Li, and Stanley C. Ahalt, "Using Support Vector Machines as HRR Signature Classifiers," *Proceedings of the 2001 SPIE Aerosense Conference*;
- Xun Du, Honglin Li, and Stanley C. Ahalt, "Content-Based Image Compression," *Proceedings of the 2001 SPIE Aerosense Conference: Algorithms for Synthetic Aperture Radar Imagery VIII*;
- 2001* ICRA2001, Seoul, Korea; He, Chao / Dong, Jianyu / Zheng, Yuan F. / Ahalt, Stanley C. "Object Tracking using the Gabor Wavelet Transforms and the Golden Section Algorithm,"
- 2001* European Project COST#276, Conference on Multimedia Communications, "Video Indexing and Annotation,"
- 2001* 4th IFAC Workshop on On-Line Fault Detection & Supervision in the Chemical Process Industries, Jejudo Island, Korea, **Keynote presentation** "ART-2 and Multiscale ART-2 for On-Line Process Fault Diagnosis - Validation via Industrial Case Studies and Monte Carlo Simulation,"
- 1999* The Challenge of Future Discovery Workshop, Laredo, Spain, "Observing and Encoding Key Characteristics: The Challenge of Feature Discovery,"
- 1999* Universidad de Carlos III de Madrid, seminar series, Madrid, Spain, lecture "Content-based Image Compression: Initial Results and Observations,"
- 1996* REE (National Electric Corporation of Spain), Madrid, Spain, "Load-forecasting using Non-linear Time-series Prediction,"
- 1996* Telefonica (National Telephone Company of Spain), Madrid, Spain, "Vector Quantization of Real-Time Video Sequences"
- 1996* Universidad La Coruña, seminar series, La Coruña, Spain, "Vector Quantization of Real-Time Video Sequences".
- 1996* Universidad Automada de Madrid, seminar series, Madrid, Spain, "Boundary Methods,"
- 1996* Universidad de Carlos III, short course on "Parallel Computing", Madrid, Spain
- 1995* Society of Military Electronics, short course on "Parallel Computing and Military Electronics", Madrid, Spain
- 1995 Ohio State University, Seminar Series for Statistics Department, Columbus, OH, "Statistical Properties of Vector Quantization for Image Compression,"
- 1995* 7th Tyrrhenian Workshop on Digital Communications, Viareggio, Italy, "Vector Quantization using Artificial Neural Network Models,"
- 1994* 1994 Brazilian Conference on Supercomputing, Porte Allegre, Brazil "Mapping Neural Networks to Supercomputers: Applications and Examples,"
- 1994 SPIE Conference, Orlando, FL "Real-time Video Compression using Entropy-biased ANN Codebooks,"
- 1993* Universidad Polytechnica de Madrid, ETSI de Telecomunicacion, seminar series, Madrid, Spain, "Image Compression using Vector Quantization based on ANN Models,"
- 1993* EEC Research Programme WG.2 Workshop on Adaptive Algorithms, Vigo, Spain "Image Compression, ANN models and Vector Quantization,"

- 1992 Neural Networks for Physicists Workshop, Theoretical Physics Institute, University of Minnesota, Minneapolis, MN Robust High-fidelity Coding based on Entropy Biased ANN Codebooks,”
- 1991 Kent State University, seminar series, Kent, OH: “Video Data Compression using the FSCL Neural Network,”
- 1991* EEC Research Programme WG.2 Workshop on Adaptive Algorithms, invited tutorial, Vigo, Spain “Speech and Image Rate Reduction using ANN Vector Quantization”.
- 1991* Universidad Polytechnica de Madrid, ETSI de Telecomunicacion, seminar series, Madrid, Spain: “Speech and Image Rate Reduction using ANN Vector Quantization,”
- 1990 Supercomputing World Conference, panelist, San Diego, CA: “Neural Networks and Supercomputing,”
- 1989 Supercomputer Research Center, Bethesda, MD, “Adaptive Vector Quantization,”
- 1988 Neural Information Processing Conference and Workshop, Discussion Leader, Denver, CO
- 1988 Ohio State University, Department of Optometry seminar series, Columbus, OH, “Neural Networks: Background and Applications,”
- 1988 Ohio State University, Department of Nuclear Engineering seminar series, Columbus, OH, “Neural Networks: Background and Applications,”