
BIOGRAPHICAL SKETCH

Thanassis Rikakis

Professor

Arizona State University

Education:

Ithaca College	Music Composition	BA	1985
Columbia University	Music Composition	MA	1988
Columbia University	Computer Music/Music Composition	DMA	1994

Research and Professional Experience:

Arizona State University	2003 – Present
Professor and Director, Arts, Media and Engineering Program	
Arizona State University	2001 – 2003
Professor of Music and Director of Institute for Studies in the Arts	
Columbia University	1995 – 2001
Associate Director, Computer Music Center	
University of Thessaloniki, Greece	1992 – 2000
Director, Institute of Psychoacoustics	
Center for Contemporary Music Research, Greece	1991 – 1994
Director, Computer Music Studio	

Selected Publications:

- Y. Chen, H. Sundaram, T. Rikakis, L. Olson, T. Ingalls and J. He (2008), Experiential Media Systems – The Biofeedback Project, in Multimedia Content Analysis: Theory and Applications, A. Divakaran (eds.), Springer Verlag, Oct. 2008.
- Yinpeng Chen, Weiwei Xu, Hari Sundaram, Thanassis Rikakis, Sheng-Min Liu, Media Adaptation Framework in Biofeedback System for Stroke Patient Rehabilitation, Proc. ACM Multimedia 2007, Augsburg, Germany
- T. Rikakis, A. Spanias, H. Sundaram, Jiping He (2006), "An Arts, Sciences and Engineering Education and Research Initiative", Proc IEEE FIE 2006, Oct 2006, San Diego, CA.
- Hari Sundaram and Thanassis Rikakis (2006). Experiential Media Systems. Encyclopedia of Multimedia. B. Furth (eds). NY NY., Springer Verlag. XXVIII: 989p.
- T. Ingalls, Yu-ru Lin, B. Mechtley, J. Mumford, I. Wallis, D. Birchfield, S. Cook, A. Kelliher, L. Olson, T. Rikakis (2008); "Mediating Complexity"; ISEA 2008, Singapore
- Wallis, T. Ingalls, T. Rikakis, L. Olsen, Y. Chen, W. Xu, H. Sundaram, "Real-Time Sonification of Movement for an Immersive Stroke Rehabilitation Environment." Proceedings of the 13th International Conference on Auditory Display, Montréal, Canada, 497-506. 2007
- Yinpeng Chen, Helen Hunag, WeiWei Xu, Richard Wallis, Hari Sundaram, Thanassis Rikakis, Jiping He, Todd Ingalls, and Loren Olson (2006), "The Design Of A Real-Time, Multimodal Biofeedback System For Stroke Patient Rehabilitation", Proc. SIG ACM Multimedia 2006, Oct. 2006, Santa Barbara, CA. (also - winner of best demo award at SIG ACM MM 2006)
- Vidyarani M. Dyaberi, Hari Sundaram, Thanassis Rikakis and Jodi James (2006). The Computational Extraction Of Spatio-Temporal Formal Structures in the Interactive Dance Work '22', Proc. ACM MM 2006, Oct. 2006, Santa Barbara.
- Weiwei Xu, Yinpeng Chen, Hari Sundaram and Thanassis Rikakis (2006). Multimodal Archiving, Real-Time Collaborative Annotation and Information Visualization in a Biofeedback System for Stroke Patient Rehabilitation, Proc. 3rd Workshop on Capture Archival, Retrieval of Personal Experiences, in Conjunction with ACM MM 2006
- D. Whiteley, G. Qian, T. Rikakis, J. James, T. Ingalls, S. Wang and L. Olson, "Real-Time Tracking of Multiple People from Unlabelled Markers and Its Application in Interactive Dance," Proceedings of British Machine Vision Conference, Oxford, UK, September 5-8, 2005
- Yi Wang, G. Qian and T. Rikakis, "Robust Pause Detection Using 3D Motion Capture Data For Interactive Dance", In Proceedings of the International Conference on Acoustics, Speech, and Signal Processing, vol. 2, pp. 1173-1176, Philadelphia, PA, March 18-23, 2005

- T. Ingalls, T. Rikakis et al. *A Movement Recognition Engine for the Development of Interactive Multimedia Works*. AISB 2004 convention: Motion, Emotion and Cognition
- Hari Sundaram, T. Rikakis, Harini Sridharan, *Computational Models for Experience in the Arts and Multimedia*, 1st ACM Workshop on Experiential Telepresence, ACM Multimedia 2003

Interactive Media Projects:

- T. Rikakis, H. Sundaram, J. He, T. Ingalls and L. Olson; A Mixed Reality System for Stroke Rehabilitation; <http://ame.asu.edu/research/mrrehab.php>
- H. Thornburg, T. Rikakis, Loren Olson, Shawn Cook, T. Ingalls, G. Coleman, D. Birchfield; Mediating Complexity and Sustainability; <http://ame.asu.edu/research/mcs.php>
- T. Rikakis, Trisha Brown, Bill T. Jones, P. Kaiser, R. Reynolds, C. Bahn, G. Qian et al. *Motione*, presented at Monaco Dance Forum (2006), Lincoln Center (2004), Nelson Fine Arts Center (2004); <http://ame.asu.edu/motione>
- T. Rikakis, Brad Garton, P. Kaiser et al (2000-01), *JPMorganChase Kids Digital Dance and Sound project* www.music.columbia.edu/kids

Original Music Compositions:

Over 30 original music compositions performed in the USA, Europe and Asia. The following is a selected list:

- *Midday Dream*, for computer generated tape; Neuma Records, Electroacoustic Music Series (VII), 2005
- *The song of the tree I*, for computer generated tape; Premiered in Miller Theater, NY 2001
- *Asymphony of characters*, for computer generated tape; Music for the film Asymphony of Characters, 1998
- *Orgia*, for computer generated tape; Incidental music for Pierre Paolo Pazolini's play "Orgia", 1996
- *Krisis*, for flute, bassoon, cello and trombone ; Premiered at the Metropolitan Concert Hall in Athens, March 1994
- *Komvos II*, for chamber orchestra Premiered in New York, American Microtonal Festival, June 1991

Synergistic Activities:

- Founding Director of the Arts, Media and Engineering Program at ASU; an interdisciplinary arts, sciences and engineering graduate research and education program. Lead the development of the vision, research and education models of the program, the creation of joint curricula with ten units at ASU and the development of a transdisciplinary Media Arts and sciences PhD degree. Have overseen the hiring of an interdisciplinary faculty body and the recruiting of an interdisciplinary student body.
- Principal Investigator, NSF Integrated Graduate Research and Education Traineeship program (IGERT) award for interdisciplinary research and education in experiential media; \$3,000,000; September 2005 - current
- Co-Principal Investigator, NSF CISE Research Infrastructure award for motion analysis; \$1, 400,000; July 2004 - current
- Co-Principal Investigator, Kauffman Foundation grant for ASU "University as Entrepreneur" initiative; \$5,000,000; April 2007 - current
- Principal investigator, State of Arizona ASU/UoA collaborative biomedical grant program; A Digital Media Based Biofeedback System for Neural Rehabilitation; \$330,000; January 2007 – current
- Co-Chair, workshop, "Success factors in fostering creativity in IT research and education", Tempe, Arizona, Sponsored by NSF Creative IT program, January 2008;
- Co-Chair, workshop, "Media Arts and Sciences and Technology", Santa Barbara, CA, Sponsored by NSF IGERT program, January 2009
- Principal Investigator; NEA "Technology: Resources for Change" award for motione project; \$150,000, September 2003
- Co-Editor, IEEE Multimedia, Special Issue on Multisensory Experience through Multimedia, 2003
- Chair, New Technologies Day, 3rd World Summit on Media for Children (2001)
- Director, "Masterpieces of Electronic Music; a multimedia presentation", Lincoln Center Festival 2000
- Director, 1997 International Computer Music Conference (ICMC97)