

Book Chapter:

- S. Krishna, V. Balasubramanian, J. Black and S. Panchanathan, “**Person-Specific Characteristic Feature Selection for Face Recognition**” in *Biometrics – Theory, Methods and Applications*, Wiley-IEEE Press, March 2009. ISBN - 978-0470247827.

Journal Publication:

- S. Krishna and S. Panchanathan, “**On the Detection of Stereotypic Body Mannerisms Using Embodied Motion Sensors**”, Submitted to *Journal of Multimedia*.
- J. Rosenthal, N. Edwards, D. Villanueva, S. Krishna, T. McDaniel and S. Panchanathan “Design, Implementation and Case Study of a Vibrotactile Haptic Device”, Submitted to *IEEE Trans. on Instrumentation and Measurement*.
- L. Gade, S. Krishna and S. Panchanathan, “**Person Localization In A Wearable Camera Platform Towards Assistive Technology For Social Interactions**”, Special Issue on Media Solutions that Improving Accessibility to Disabled Users, Ubiquitous Computing and Communication Journal, Feb 2010.
- V. Balasubramanian, S. Krishna, and S. Panchanathan, “**Person-Independent Head Pose Estimation using Biased Manifold Embedding**,” *EURASIP Special Issue on Advanced Signal Processing and Pattern Recognition for Biometrics*, Vol. 2008 (2008), Article ID 283540, November 2007.

Conference Publications and Technical Reports:

- S. Krishna, B. Patel, S. Panchanathan, “**Enriching Interpersonal Human Interactions towards Effective Personal and Professional Communications**”, Accepted for publication in the 2010 NIPS Workshop on Modeling Human Communication Dynamics.
- S. Krishna, S. Bala, S. Panchanathan, “**Exploring the Dorsal Surface of the Fingers for Visuo-Haptic Sensory Substitution**”, Accepted for publication in the IEEE Intl. Workshop on Haptics Audio-Visual Environments and Games, Tempe AZ, 2010.
- T. McDaniel, D. Villanueva, S. Krishna and S. Panchanathan, “**MOVeMENT: A Framework for Systematically Mapping Vibrotactile Stimulations to Fundamental Body Movements**”, Accepted for publication in the IEEE Intl. Workshop on Haptics, Audio-Visual Environments and Games, Tempe AZ, 2010.
- S. Krishna, V. Balasubramanian and S. Panchanathan, “**Enriching Social Situational Awareness: Insights and Inspirations from Disability Focused Research**”, Accepted for publication in ACM MultiMedia 2010 Brave New Ideas session for oral presentation.
- S. Krishna and S. Panchanathan, “**Assistive Technologies as Effective Mediators in Interpersonal Social Interactions for Persons with Visual Disability**,” *Computers Helping People with Special Needs*, Austria: Springer, 2010, pp. 316 - 323.
- S. Krishna, S. Bala, S. McGuire, T. McDaniel and S. Panchanathan, “**VibroGlove: An Assistive Technology Aid for Conveying Facial Expressions**”, *Computer Human Interaction, Work-in-Progress*, Accepted for publication, 2010.
- T. McDaniel, D. Villanueva, S. Krishna, D. Colbry and S. Panchanathan, “**Heartbeats: A Methodology to Convey Interpersonal Distance through Touch**”, *Computer Human Interaction, Work-in-Progress, Extended Abstract*, Accepted for publication, 2010.
- S. Krishna, T. McDaniel and S. Panchanathan, “**Embodied Social Interaction Assistant**”, *Technical Report TR-10-001*, Arizona State University, Tempe, 2010.

- V. Balasubramanian, S. Chakraborty, S. Krishna, S. Panchanathan, "**Human-Centered Machine Learning in a Social Interaction Assistant for Individuals with Visual Impairments**", Symposium on Assistive Machine Learning for People with Disabilities at Neural Information Processing Systems (NIPS), Dec 2009.
- Edwards, N.; Rosenthal, J.; Moberly, D.; Lindsay, J.; Blair, K.; Krishna, S.; McDaniel, T.; Panchanathan, S.; , "**A pragmatic approach to the design and implementation of a vibrotactile belt and its applications**," *Haptic Audio visual Environments and Games*, 2009. *HAVE 2009. IEEE International Workshop on* , vol., no., pp.13-18, 7-8 Nov. 2009.
- S. Krishna, N. C. Krishnan and S. Panchanathan, "**Detecting Stereotype Body Rocking Behavior through Embodied Motion Sensors**", *Annual Conference of Rehabilitation Engineering and Assistive Technology Society of North America*, June 2009.
- T. McDaniel, S. Krishna and S. Panchanathan, "**Using Tactile Rhythm to Convey Interpersonal Distances to Individuals who are Blind**", *27th International Conference on Computer Human Interaction*, 2009, April 2009.
- S. Krishna, T. McDaniel and S. Panchanathan, "**Haptic Belt For Delivering Nonverbal Cues To People Who Are Blind/Visually Impaired**", *24th Annual International Technology and Persons with Disabilities Conference (CSUN 2009)*, Los Angeles, CA, March 2009.
- S. Krishna, D. Colbry, J. Black, V. Balasubramanian, S. Panchanathan, "**A Systematic Requirements Analysis and Development of an Assistive Device to Enhance the Social Interaction of People Who are Blind or Visually Impaired**", *Workshop on Computer Vision Applications for the Visually Impaired conducted along with European Computer Vision Conference (ECCV 2008)*, Marseille, France, 2008.
- S. Panchanathan, N.C. Krishnan, S. Krishna, T. McDaniel, and V.N. Balasubramanian, "**Enriched human-centered multimedia computing through inspirations from disabilities and deficit-centered computing solutions**," *Proceeding of the 3rd ACM international workshop on Human-centered computing*, Vancouver, British Columbia, Canada: ACM, 2008, pp. 35-42.
- S. Panchanathan, S. Krishna, J. Black, and V. Balasubramanian, "**Human Centered Multimedia Computing: A New Paradigm for the Design of Assistive and Rehabilitative Environments**," *International Conference on Signal Processing, Communications and Networking*, 2008. *ICSCN '08*, 2008, pp. 1-7.
- T. McDaniel, S. Krishna, V. Balasubramanian, D. Colbry, S. Panchanathan, "**Using a haptic belt to convey non-verbal communication cues during social interactions to individuals who are blind**," , *IEEE International Workshop on Haptic, Audio and Visual Environments and Games*, 2008. *HAVE 2008*, 13-18.
- S. Krishna, S. Panchanathan, "**Combining Skin-Color Detector and Evidence Aggregated Random Field Models towards Validating Face Detection Results**," *Sixth Indian Conference on Computer Vision, Graphics & Image Processing*, 2008, 466-473.
- S. Krishna; V. Balasubramanian, C. Krishnan Narayanan, T. Hedgpeth, and S. Panchanathan, "**The iCARE Ambient Interactive Shopping Environment**", *23rd Annual International Technology and Persons with Disabilities Conference (CSUN 2008)*, Los Angeles, CA, March 2008.
- S. Krishna, V. Balasubramanian, N. C. Krishnan, J. Colin, T. Hedgpeth, and S. Panchanathan, "**A Wearable Wireless RFID Systems for Accessible Shopping**

Environments,” *Third International Conference on Body Area Networks (BodyNets08)*, Tempe, AZ, April 2008.

- C. Raju, S. Zabuawala, S. Krishna, J. Yadegar, “**A Hybrid System for Information Fusion with Application to Passive Ranging**”, *International Conference on Image Processing, Computer Vision, and Pattern Recognition*, 2007, 402-406.
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