

## Ashok Veeraraghavan

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### PUBLICATIONS      **Book Chapters**

1. Rama Chellappa, S. Srinivasan, Gaurav Aggarwal and Ashok Veeraraghavan. Image Sequence Stabilization, Mosaicking and Super-Resolution. Handbook of Image and Video Processing, 2nd Edition, A. Bovik (Ed.), Academic Press, 2005

### **Journal Articles**

1. Pavan Turaga, Ashok Veeraraghavan and Rama Chellappa. "Videos to Verbs: View and Rate Invariant Clustering of Video Sequences", Under Review for the Elsevier Journal for Computer Vision and Image Understanding (CVIU).
2. Rama Chellappa, Aswin C. Sankaranarayanan and Ashok Veeraraghavan. "Distributed Detection, Tracking and Classification using a network of Video Cameras", Invited Paper submitted to the Proceedings of the IEEE - Special Issue on Distributed Smart Cameras.
3. Ashok Veeraraghavan, Ramesh Raskar, Amit Agrawal, Ankit Mohan, Jack Tumblin. "Dappled Photography: Mask Enhanced Cameras For Heterodyned Light Fields and Coded Aperture Refocussing" in ACM Transactions on Graphics (Proceedings of SIGGRAPH) 2007.
4. Ashok Veeraraghavan, Rama Chellappa and Mandyam Srinivasan. Shape and Behavior Encoded Tracking of Bee Dances. Accepted for Publication at IEEE Transactions on Pattern Analysis and Machine intelligence 2007(PAMI).
5. Ashok Veeraraghavan, Amit Roy Chowdhury and Rama Chellappa. Matching Shape Sequences in Video with an application to Human Movement Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI), Dec 2005. (15 citations<sup>1</sup>)
6. Ashok Narayanan and K.M.M.Prabhu. 2003. The fractional Fourier transform: Theory, implementation and error analysis, Elsevier Journal on Microprocessors and Microsystems, Volume 27, Issue 10, 3 Nov 2003, Pages 511-521. (3 citations)

### **Highly Selective Conference Proceedings**(Acceptance rates similar to major journals)

1. Mahesh Ramachandran, Ashok Veeraraghavan and Rama Chellappa. "Fast Bilinear SFM with side information", Presented at IEEE International Conference on Computer Vision (ICCV) 2007.
2. Pavan Turaga, Ashok Veeraraghavan and Rama Chellappa. Mining Videos for Events using a cascade of dynamical systems: From videos to verbs, Presented at IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR), June 2007.
3. Ashok Veeraraghavan, Rama Chellappa and Amit K. Roy-Chowdhury. "The Function Space of an Activity", Oral Presentation at IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR), June 2006. (9 citations)
4. Ashok Veeraraghavan, Amit Roy Chowdhury and Rama Chellappa. "Role of Shape and Kinematics in Human Movement Analysis", IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR), June 2004. (29 citations)

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<sup>1</sup>All citation information according to Google Scholar as on Nov 29, 2007: Query Index: Ashok Veeraraghavan

5. Amit Agrawal, Ashok Veeraraghavan and Ramesh Raskar. "Shield Fields: Occluders in Light Transport", Under Review for Eurographics 2008.
6. Ashok Veeraraghavan, Ramesh Raskar, Amit Agrawal, Rama Chellappa, Ankit Mohan and Jack Tumblin. "Non-Refractive modulators for encoding and capturing scene appearance", In Preparation for IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR), 2008.
7. Pavan Turaga, Ashok Veeraraghavan and Rama Chellappa. "Distance measures on the Stiefel and Grassman Manifolds: Applications in Vision", In Preparation for IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR), 2008.

#### **Other Refereed Conference Papers**

1. Ashok Veeraraghavan, Mahesh Ramachandran, Rama Chellappa and Manohar Mareboyana. "Homography based multi-video coding for a network of cameras", Under review for IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) 2008.
2. Ashok Veeraraghavan, Ramesh Raskar, Amit Agrawal, Ankit Mohan and Jack Tumblin. "Non-Refractive Modulators for Coding and Capturing Scene Appearance", University of Maryland, UMIACS Tech Report UMIACS-TR-2007-21.
3. Ashok Veeraraghavan, Rama Chellappa and Amit K.Roy-Chowdhury. "Learning the function space of an Activity", Snowbird Learning Workshop Apr 2006.
4. Ashok Veeraraghavan, Mandyam Srinivasan, Rama Chellappa, Emily Baird and Richard Lamont. "Motion Based Correspondence for 3D Tracking of Multiple Dim Objects", In Proceedings of IEEE International Conference on Acoustics, Speech and Signal Processing 2006 (ICASSP).
5. Rama Chellappa, Ashok Veeraraghavan and Gaurav Aggarwal. "Pattern Recognition in Video". Invited paper in International Conference on Pattern Recognition and Machine Intelligence(PReMI), 2005. Published in Lecture Notes in Computer Science, Volume 3776, Dec 2005, Pages 11-20.
6. Gaurav Aggarwal, Ashok Veeraraghavan and Rama Chellappa. "3D Facial Pose Tracking in Uncalibrated Videos". International Conference on Pattern Recognition and Machine Intelligence(PReMI), 2005. Published in Lecture Notes in Computer Science, Volume 3776, Dec 2005, Pages 515-520. (3 citations)
7. Ashok Veeraraghavan and Rama Chellappa. Tracking Bees in a hive. Snowbird Learning Workshop 2005. (Invited Paper)
8. Sankalita Saha, Chung-Ching Shen, Chia-Jui Hsu, Gaurav Aggarwal, Ashok Veeraraghavan, Alan Sussman, Shuvra S. Bhattacharyya, "Model-Based OpenMP Implementation of a 3D Facial Pose Tracking System". ICPP Workshops 2006: 66-73. (1 citation)