

## Biographical Sketch: Sen-ching Samson Cheung

### Professional Preparation

University of Washington	Computer Engineering	B.S. (summa cum laude)	1992
University of California, Berkeley	Electrical Engineering	Ph.D.	2002
Lawrence Livermore National Lab.	Scientific Data Mining	Post-doctoral	2002-2004

### Appointments

2010 - Present	Associate Professor, Department of Electrical & Computer Engineering and Center for Visualization & Virtual Environments, University of Kentucky
2008 - 2008	Adjunct Professor, Electrical Engineering, Joint Institute of University of Michigan and Shanghai Jiao Tong University, Shanghai, China
2004 - 2010	Assistant Professor, Department of Electrical & Computer Engineering and Center for Visualization & Virtual Environments, University of Kentucky
2002 - 2004	Researcher, Center for Applied Scientific Computing, Lawrence Livermore National Lab
1998 - 2002	Research Assistant, Electrical Engineering and Computer Sciences, UC Berkeley
1995 - 1998	Research Engineer, VTEL (formerly Compression Labs), San Jose, California
1992 - 1995	Research Assistant, Electrical Engineering and Computer Sciences, UC Berkeley

### Ten selected publications since 2012:

1. Shen, J., C. Ti, A. Raghunathan, S.-C. Cheung, and R. Patel. 2014. Automatic Video Self Modeling for Voice Disorder. **Multimedia Tools and Applications**. DOI. 10.1007/s11042-014-2015-1
2. Sajid, H. and S.-C. Cheung. 2014. Background Subtraction under Sudden Illumination Change. In **IEEE International Workshop on Multimedia Signal Processing (MMSP 2014)**, Sept. 22-24, 2014, DOI: 10.1109/MMSP.2014.6958814.
3. Wang, Z., Y. Luo and S.-C. Cheung. 2014. Efficient Multi-party Computation with Collusion-deterred Secret Sharing. In **IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2014)**, May 4-9, 2014, pp. 7401-7405.
4. Zhao, J., D. Hawkes, R. Yoshida, and S.-C. Cheung. 2013. *Approximate techniques in solving optimal camera placement problems*. **International Journal of Distributed Sensor Networks**. Vol. 2013(2013) Article ID 241913.
5. Shen, J., S.-C. Cheung, and J. Zhao. 2013. Virtual Mirror by Fusing Depth and Color Cameras. **IEEE Transactions on Image Processing**, vol. 22, issue 9, pp. 1-16.
6. Shen, J., and S.-C. Cheung. 2013. Layer Depth Denoising and Completion for Structured-Light RGB-D Cameras. In **IEEE Conference on Computer Vision and Pattern Recognition (CVPR 2013)**, June 25-27, 2013, pp. 1187-1194.
7. Ukaobah, N., J. Shen and S.-C. Cheung. 2013. MEBOOK: a novel device using video self-modeling to enhance literacy among children with ASD. In **International Meeting for Autism Research (IMFAR)**, May 2-4, 2013.
8. Zhao, J. and S.-C. Cheung. 2012. Human Segmentation by Geometrically Fusing Visible-light and Thermal Imaginary. **Multimedia Tools and Applications**. DOI 10.1007/s11042-012-1299-2.
9. Paruchuri, J., Y. Luo and S.-C. Cheung, 2012. Preserving and Managing Privacy Information in Video Surveillance Systems. Chapter 5 in **Effective Surveillance for Homeland Security: Balancing Technology and Social Issues**, edited by F. Flammini, R. Setola & G. Franceschetti, CRC Press/Taylor & Francis, pp. 87-109.
10. Luo, Y., S.-C. Cheung, R. Lazzeretti, T. Pignata, and M. Barni. 2012. An Efficient Protocol for Private Iris-code Matching using Garbled Circuits. In **IEEE International Conference on Image Processing (ICIP 2012)**, Sept. 30-Oct. 3, 2012, pp. 2653-2656

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### Synergistic Activities

1. Lead PI of the NSF I-Corps project on “*Video Interface for Behavioral Evaluation*” (NSF-1444022, 2014)
2. Lead PI of the NSF-funded project on “*SHB: Type II(INT): Synthesizing Self-Model and Mirror Feedback Imageries with Applications to Behavior Modeling for Children with Autism*”. (NSF-1237134, 2012-2016). The PI team has 4 PIs over two different institutions.
3. Sole PI of the NSF-funded project on “*CIF: Small: Privacy Protection of Multimedia Processing*” (NSF-1018241, 2010-2014).
4. Lead Guest Editor of Special Issue on
  - a. Privacy and Trust Management in Cloud and Distributed Systems in IEEE Transactions on Information Forensics and Security (2012)
  - b. Enhancing Privacy Protection in Multimedia Systems in EURASIP Journal of Information Security (2009)
5. Associate Editor of
  - a. IEEE Transactions on Information Forensics and Security since 2013
  - b. Signal Processing: Image Communications since 2011
  - c. IEEE Transactions of Multimedia (2011-2013)
  - d. American Statistical Association Journal on Statistical Analysis and Data Mining since 2009.
  - e. EURASIP Journal on Information Security since 2008
6. Member of
  - a. Multimedia Signal Processing Technical Committee, IEEE Signal Processing Society (since 12/2013)
  - b. Information Forensics & Security Technical Committee, IEEE Signal Processing Society (since 10/2012)
  - c. Multimedia Communications Technical Committee, IEEE Communication Society, (since 11/2010)
  - d. Multimedia Systems & Applications Technical Committee, IEEE Circuits and Systems Society (since 9/2007)
7. Chair of
  - a. TPC Area on Image and Video Biometric Analysis for IEEE International Conference on Image Processing (ICIP 2015)
  - b. Information forensics and Security Track for IEEE China Summit and International Conference on Signal and Information Processing 2015 (ChinaSIP 2015)
  - c. TPC Area on for IEEE International Conference on Multimedia and Expo (ICME 2015)
  - d. Special Session on “3D Imaging for health monitoring and interventions” in IEEE International Conference on Multimedia and Expo (ICME 2015)
  - e. Session on “Multimedia Encryption, Secure Computations, and Data Hiding” in IEEE International Conference on Acoustics, Sound, and Signal Processing 2014 (ICASSP 2014)
  - f. TPC Area on Multimedia Security, Privacy and Forensics for IEEE International Conference of Multimedia and Expo 2013 (ICME 2013)
  - g. Publicity (US) for the Fifth IEEE/ACM International Conference of Distributed Smart Cameras (ICDSC 2011)
  - h. Session on “Techniques and Applications for Smart Cameras (part II)” in Fourth IEEE/ACM International Conference of Distributed Smart Cameras (ICDSC 2010)