

TERENCE M. SIM

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Research Interests:	Face processing : analysis, recognition, modeling, animation, rendering. Biometrics . Pattern Recognition. Computational Photography . Computer vision. Image processing.	
Education:	CARNEGIE MELLON UNIVERSITY Pittsburgh, PA Ph.D. in Electrical and Computer Engineering, June, 2002. STANFORD UNIVERSITY Palo Alto, CA Master of Science in Computer Science, Sept. 1991. MASSACHUSETTS INSTITUTE OF TECHNOLOGY Cambridge, MA Bachelor of Science in Computer Science and Engineering, Sept. 1990.	
Employment:	NATIONAL UNIVERSITY OF SINGAPORE Singapore July 2002 – present. Associate Professor at the School of Computing. Oct. 1996 – June 2002. Senior Tutor at the School of Computing. Tutored discrete mathematics course. Sponsored by NUS to pursue a Ph.D. at CMU. PLATINUM TECHNOLOGY PTE. LTD. Singapore Sept 1995 - Oct 1996. Technical Manager. DEVELOPMENT BANK OF SINGAPORE (DBS) Singapore Sept. 1991 – Aug. 1995. Senior Systems Analyst.	
Consultancy:	<ul style="list-style-type: none"> • Infinity Optics Solutions Pte. Ltd.: Aug – Dec 2016. • Hutcabb Consulting Pte. Ltd.: May 2012. • 121View Singapore: May 2009 – Feb 2011. • Ministry of Home Affairs, Singapore: June 2008 – Dec. 2008. • Stelop Private Limited, Singapore: Jan. 2008 – Jan. 2009. 	
Honors, Activities, Awards:	<ul style="list-style-type: none"> • NUS School of Computing Teaching Excellence, 2003 and 2005. • CMU Graduate Teaching Award, 2001. • NUS Overseas Scholarship for Doctorate studies 1997. • DBS Bank (Singapore) Overseas Scholarship for Undergraduate studies 1987 – 1991. • Member of Eta Kappa Nu (USA engineering honors society), 1989 – 1990. • Valedictorian at Raffles Junior College, won Chiam Tao Soon Engineering Trophy, 1984. • Ministry of Education Pre-University Scholarship 1983 – 1984. 	
Grants Received: (selected list)	<ul style="list-style-type: none"> • Fuji-Xerox grant: First Person Video Analysis, \$78.65K, May 2015 – Mar. 2016. • NUS Faculty Research Council (FRC) grant: Sketch Me If You Can, \$105.7K, Mar. 2011 – Feb. 2013. • NUS FRC grant: Wonder Twins, \$73.9K, Sept. 2009 – Aug. 2010. • NUS FRC grant: Collaborative Computational Photography, \$102.068K, Apr. 2009 – Mar. 2012. • Temasek Young Investigator's Award by the Singapore Defence Science & Technology Agency: Tallyface Project, \$700K, Apr. 2006 – Mar. 2009. 	

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Patents:	<ul style="list-style-type: none"> • US Patent No. 12/779,219 dated 13 May 2010: Enhancing Photograph Visual Quality Using Texture And Contrast Data From Near Infra-Red Images (Pending)
Selected Publications: (full list available on request)	<ul style="list-style-type: none"> • <i>BoxFlow: Unsupervised Face Detector Adaptation from Images to Videos</i>. Jianshu Li, Jiashi Feng, Luoqi Liu, and Terence Sim. IEEE International Conference on Automatic Face and Gesture Recognition, May 2017. • <i>Robust Face Recognition with Deep Multi-view Representation Learning</i>. Jianshu Li, Jian Zhao, Fang Zhao, Hao Liu, Jing Li, Shengmei Shen, Jiashi Feng, and Terence Sim. ACM Multimedia Conference, Oct. 2016. • <i>Controllable Face Privacy</i>. Terence Sim, and Li Zhang. In Workshop on De-identification for Privacy Protection in Multimedia, May 2015. • <i>Towards General Motion-based Face Recognition</i>. Ning Ye and Terence Sim. IEEE Conference on Computer Vision and Pattern Recognition, June 2010. • <i>Discriminant Subspace Analysis: A Fukunaga-Koontz Approach</i>. Sheng Zhang and Terence Sim. IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 29, No. 10, Oct. 2007, pp. 1732 – 1745. • <i>Continuous Verification Using Multimodal Biometrics</i>. Terence Sim, Sheng Zhang, Rajkumar Janakiraman, and Sandeep Kumar. IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 29, No. 4, Apr. 2007, pp. 687 – 700.
Teaching:	<p>CS1231 Discrete Structures: AY2012/13, AY2015/16, AY2016/17. CS4340 Digital Special Effects: AY2010/11, AY2011/12, AY2012/13, AY2014/15. CS5240 Theoretical Foundations in Multimedia: AY2002/03 – AY2005/06, AY2009/10, AY2010/11, AY2012/13, AY2013/14 CS4243 Computer Vision & Pattern Recognition: AY2006/07 – AY2009/10</p>
Appointments:	<ul style="list-style-type: none"> • Visiting Professor, INP-ENSEEHT Toulouse, France: June 2017. • President, PREMIA (Singapore Pattern Analysis and Machine Intelligence society): Aug. 2014 Aug. 2016. • Vice President, PREMIA: Aug 2010 – Aug 2014. • Board Member, PREMIA: Aug. 2008 – Aug. 2010. • Protem Treasurer, PREMIA: Jan. – Aug. 2004. • Vice-Chairman of the Singapore Biometrics Technical Committee (BTC): 2010 – 2014. • Chairman, Working Group on Cross-Jurisdictional and Societal Aspects, BTC: 2006 -- 2014. • Judge in the Singapore Science and Engineering Fair: 2007, 2010.
Invited Talks:	<ul style="list-style-type: none"> • Invited speaker at the Biometric Security Forum, June 2013, Singapore. • Invited instructor for the 1st International Summer School on Intelligent Multimedia Information Processing, June 2012, Bali, Indonesia. • Invited instructor for the Biometrics School (Winter Edition), Jan. 2012, Kuching, Sarawak, Malaysia. • Invited speaker at the 10th Asian High Security Printing Conference, Dec. 2011, New Delhi, India. • Invited speaker at the Biometrics Institute Annual Australian Conference, May 2010, www.biometricsinstitute.org. Title: “Motion-based Face Recognition” • Invited speaker at Governmentware 2008, 2007, 2006 (organized by the Singapore Ministry of Home Affairs, www.govware.sg). • Invited speaker at the HIDE (Homeland Security, Biometric Identification & Personal Detection Ethics) Project Workshop (www.hideproject.org/events/workshops.html), promoted by the European Commission, 2009. Title: “Privacy and Biometric Technologies”