

Browsing Unstructured Social Media Feeds on Mobile Devices: A Visual Representation Approach

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This talk addresses several important technical issues in generating graphical representation from heterogeneous unstructured multimedia feeds derived from social network contents for rendering on consumer mobile devices. We will first present several pressing technical challenges associated with creating a browsing system that can summarize information overloading unstructured social media feeds and produce a novel GIST, namely, Graphical Intelligent Semantic Transform, for effective and visually pleasing rendering on a mobile device by the social media users. We will then illustrate innovative solutions to solving a suite of interdisciplinary problems associated with developing such a system. Preliminary results will be shown to demonstrate the feasibility of creating such a GIST for graphical rendering of information overloading social media feeds on individual consumer mobile devices.



Chang Wen Chen is an Empire Innovation Professor of Computer Science and Engineering at the University at Buffalo, State University of New York since 2008. He has been Allen Henry Endow Chair Professor at the Florida Institute of Technology from July 2003 to December 2007. He was on the faculty of Electrical and Computer Engineering at the University of Rochester from 1992 to 1996 and on the faculty of Electrical and Computer Engineering at the University of Missouri-Columbia from 1996 to 2003.

He has been the Editor-in-Chief for IEEE Trans. Multimedia since January 2014. He has also served as the Editor-in-Chief for IEEE Trans. Circuits and Systems for Video Technology from 2006 to 2009. He has been an Editor for several other major IEEE Transactions and Journals, including the Proceedings of IEEE, IEEE Journal of Selected Areas in Communications, and IEEE Journal of Journal on Emerging and Selected Topics in Circuits and Systems. He has served as Conference Chair for several major IEEE, ACM and SPIE conferences related to multimedia video communications and signal processing. His research is supported by NSF, DARPA, Air Force, NASA, Whitaker Foundation, Microsoft, Intel, Kodak, Huawei, and Technicolor.

He received his BS from University of Science and Technology of China in 1983, MSEE from University of Southern California in 1986, and Ph.D. from University of Illinois at Urbana-Champaign in 1992. He and his students have received eight (8) Best Paper Awards or Best Student Paper Awards over the past two decades. He has also received several research and professional achievement awards, including the Sigma Xi Excellence in Graduate Research Mentoring Award in 2003, Alexander von Humboldt Research Award in 2009, and the University at Buffalo Exceptional Scholar – Sustained Achievement Award in 2012, and the State University of New York System Chancellor’s Award for Excellence in Scholarship and Creative Activities in 2016. He is an IEEE Fellow since 2004 and an SPIE Fellow since 2007.