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[Ryerson Multimedia Research Laboratory](#)

Courses

[EE8108: Multimedia Processing and Communication](#)

Ling Guan

Professor

- BSc, Tianjin University, China, 1982
- MSc, University of Waterloo, 1985
- PhD, University of British Columbia, 1989
- 1988-1992, Array Systems Computing, Inc, Canada
- 1992-2001, University of Sydney, Australia
- 2001-, Ryerson University, Canada

RESEARCH INTERESTS

Multimedia processing and communications, reality computing, image and video processing, machine learning, pattern recognition, human-compute information mining, intelligent healthcare systems, smart living, e-heritage.

AWARDS AND RECOGNITION

- Fellow of the IEEE
- Fellow of the Canadian Academy of Engineering
- Fellow of the Engineering Institute of Canada
- Tier I Canada Research Chair in Multimedia (2001-2015)
- IEEE Transactions on CSVT Best Paper Award (2005)
- IEEE Canada C.C. Gotlieb Computer Medal (2014)
- IEEE CAS Society Distinguished Lecturer (2010-2011)
- Ryerson FEAS Research Excellence Award (2004)
- Ontario Outstanding Researcher Award (2002)
- Invitation Fellowship, Australian Academy of Science/Japan Society for the Promotion of Science (1999)
- British Telecom Research Fellowship (1994)
- IEEE Pacific-Rim Conference on Multimedia Best Student Paper Award (2000)
- Pacific-Rim Conference on Multimedia Best Paper Award (2007)
- IEEE Workshop on Multimedia Signal Processing Top 10% Paper Award (2012)
- IEEE International Conference on Image Processing Top 10% Paper Award (2015)
- IEEE International Workshop on Intelligent Multimedia Application and Design for Quality Living Best Paper Award (2017)
- IEEE International Symposium on Multimedia Top 5% Paper (2017)

SELECTED PAPERS

Y. He, I. Lee and L. Guan, "Optimized video multicast in wireless ad hoc network using distributed algorithm," *IEEE Transactions on Circuits and Systems*, vol. 19, no. 6, pp. 796-807, June 2009.

Y. Tie and L. Guan, "Automatic face detection in video sequences using local normalization and optimal adaptive correlation," *Pattern Recognition*, vol. 42, no. 10, pp. 1868, May 2009.

Y. Wang and L. Guan, "Recognizing human emotional state from audiovisual signals," *IEEE Transactions on Multimedia*, vol. 10, no. 5, pp. 936 - 946, Aug 2008.

M. Kyan, K. Jarrah, P. Muneesawang and L. Guan, "Self-organizing trees and forests: Strategies for unsupervised multimedia processing," *IEEE Comput* vol. 1, no.2, pp. 27-40, May 2006.

R.D. Green and L. Guan, "Quantifying and recognizing human movement patterns from monocular video images - Part I: A new framework for modeli
IEEE Trans. on Circuits and Systems for Video Technology, vol. 14, no. 2, pp. 179-190, February 2004.

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