

- Z. Li, Q. Sun, Y. Lian and C.W. Chen, “Joint source-channel-authentication resource allocation and unequal authenticity protection for multimedia over wireless networks”, in *IEEE Trans. Multimedia*, Vol. 9, No. 4, p837-850, Jun. 2007 (*2008 Multimedia Communications Best Paper Award, IEEE Communications Society*).
- Z. Li, Q. Sun and Y. Lian, “Design and analysis of a scalable watermarking scheme for the scalable audio coder”, in *IEEE Trans. Signal Processing*, Vol. 54, No. 8, p3064-3077, August 2006.

Conference Papers

- Z. Li, A. Khisti and B. Girod, “Correcting erasure bursts with minimum decoding delay”, to appear in Asilomar 2011.
- Z. Li, A. Begen and B. Girod, “Delay-optimal burst erasure codes for parallel links”, in *Proc. International Symposium on Network Coding*, Jul. 2011.
- Z. Li, A. Khisti and B. Girod, “Forward error correction for low-delay packet video”, in *Proc. Packet Video Workshop*, Dec. 2010.
- Z. Li, A. Begen, Z. Zhu and B. Girod, “Accelerated IPTV channel change with transcoded unicast bursting”, in *Proc. ACM Conference on Multimedia*, Oct. 2010.
- Z. Li, X. Zhu, A.C. Begen and B. Girod, “IPTV multicast with peer-assisted lossy error control”, in *Proc. Visual Communications and Image Processing (VCIP)*, June 2010.
- Z. Li, F. Wu and J. Wright, “On the systematic measurement matrix for compressed sensing in the presence of gross errors”, in *Proc. Data Compression Conference, 2010 (Capocelli prize finalist)*.
- Z. Li, X. Zhu, A. Begen and B. Girod, “Peer-assisted packet loss repair for IPTV multicast”, in *Proc. ACM Conference on Multimedia*, 2009.
- V. Chandrasekhar, D. M. Chen, Z. Li, G. Takacs, S. S. Tsai, R. Grzeszczuk, and B. Girod, “Low-rate image retrieval with tree histogram coding”, in *Proc. 5th International Mobile Multimedia Communications Conference (MobiMedia)*, 2009, London, U.K., Sep. 2009.
- Z. Li, X. Zhu, A. Begen and B. Girod, “Forward and retransmitted Systematic Lossy Error Protection for IPTV video multicast”, in *Proc. International Packet Video Workshop*, 2009.
- Z. Li, Y.-C. Lin, D. Varodayan, P. Baccichet and B. Girod, “Distortion-aware retransmission and concealment of video packets using a Wyner-Ziv-coded thumbnail”, in *Proc. IEEE Workshop on Multimedia Signal Processing*, 2008.
- Z. Li, X. Zhu, Y. Lian and Q. Sun, “Constructing secure content-dependent watermarking scheme using homomorphic encryption”, in *Proc. IEEE Int. Conf. Multimedia and Expo*, 2007. (*Best Student Paper Award*)
- Z. Li, Y. Lian, Q. Sun and C.W. Chen, “Authenticating multimedia transmitted over wireless networks: a content-aware stream-level approach”, in *Proc. IEEE Int. Conf. Multimedia and Expo*, 2006.
- Z. Li, Q. Sun and Y. Lian, “Unequal authenticity protection (UAP) for rate-distortion-optimized secure streaming of multimedia over wireless networks”, in *Proc. IEEE Int. Sym. Circuits and Systems*, 2006.
- Z. Li, Q. Sun and Y. Lian, “An adaptive scalable watermark scheme for high-quality audio archiving and streaming applications”, in *Proc. IEEE Int. Conf. on Multimedia and Expo*, 2005.
- Z. Li, Q. Sun, Y. Lian and D.D. Giusto, “An association-based graphical password design resistant to shoulder-surfing attack”, in *Proc. IEEE Int. Conf. on Multimedia and Expo*, 2005.

Invited Talks

- Correcting erasure bursts with minimum decoding delay, Special Session on Delay Sensitive Communication, Asilomar Conference on Signals, Systems and Computers, Nov. 2011, Pacific Grove, CA.

- Towards a realistic HTTP adaptive streaming simulator, Cisco Workshop on Adaptive Video Streaming over IP Networks, Nov. 2010, Boxborough, MA.
- Forward and Retransmitted SLEP and its extension to peer-assisted packet repair for IPTV deployment, Cisco Workshop on Real-Time Video Distribution over IP Networks, Nov. 2008, Atlanta.

SKILLS

Primary: C/C++, Matlab, ns-2

Familiar with: Java, TCL, Javascript, HTML, L^AT_EX, PHP, Flash/Actionscript

Environment: Linux, Windows

Languages: Mandarin Chinese (native), English (fluent)

HONORS

Multimedia Communications Best Paper Award, IEEE ComSoc 2008

Best Student Paper Award, IEEE ICME 2007 2007

John Linvill Graduate Fellowship, Stanford University 2007

Singapore Indian Chamber of Commerce Medal, National University of Singapore 2005

Graduate Scholarship, National University of Singapore 2005

Undergraduate Scholarship, Ministry of Education, Singapore 2001