

Duan-Shin Lee

Journal Publications

- [1] Cheng-Shang Chang, Chih-Jung Chang, Wen-Ting Hsieh, Duan-Shin Lee, Li-Heng Liou, and Wanjiun Liao, "Relative Centrality and Local Community Detection," accepted by *Network Science*, Cambridge University Press.
- [2] Cheng-Shang Chang, Jay Cheng, Tien-Ke Huang, Xuan-Chao Huang, Duan-Shin Lee, and Chao-Yi Chen, "Bit-Stuffing Algorithms for Crosstalk Avoidance in High Speed Switching," *accepted by IEEE Trans. on Computer.*
- [3] Cheng-Shang Chang, J. Cheng, T.-K. Huang, and Duan-Shin Lee, "Constructions of Memoryless Crosstalk Avoidance Codes via C-Transform," *IEEE Trans. on Very Large Scale Integration (VLSI) Systems*, Vol. 22, No. 9, pp. 2030-2033, Sept. 2014.
- [4] Ching-Min Lien, Cheng-Shang Chang and Duan-Shin Lee, "A Universal Stabilization Algorithm for Multicast Flows with Network Coding," *IEEE Transactions on Communications*, vol. 61, no. 2, pp. 712-721, February 2013.
- [5] J. Cheng, X.-C. Huang, C.-H. Cheng, H.-H. Chou, C.-S. Chang, and Duan-Shin Lee, "Average Number of Recirculations in SDL Constructions of Optical Priority Queues," *IEEE Communications Letters*, Vol. 15, No. 8, pp. 899-901, 2011. (5-year-if=1.380, rank-in-telecommunications=29/80)
- [6] J. Cheng, H.-C. Chiu, C.-S. Chang and Duan-Shin Lee, "Constructions of Optical Priority Queues with Multiple Inputs and Multiple Outputs," *IEEE Trans. on Information Theory*, Vol. 57, Number 7, pp. 4274-4301, July 2011. (5-year-if=4.313, rank-in-Computer Science, Information systems=12/128)
- [7] Cheng-Shang Chang, Jay Cheng, Duan-Shin Lee, Chi-Feung Wu, "Quasi-Output-Buffered Switches", *IEEE Trans. on Parallel and Distributed Systems*, vol. 22, no. 5, pp. 833-846, May 2011. (5-year-if=1.992, rank-in-Computer Science, Information systems=28/97)
- [8] Duan-Shin Lee, Cheng-Shang Chang, Jay Cheng, Hung-Shih Chueh, Kuan-Ting Wang, "Emulation of a Flexible Delay Line by Parallel Variable Optical Delay Lines", *IEEE Communications Letters*, Vol. 14, No. 8, pp. 770-772, 2010. (5-year-if=1.380, rank-in-telecommunications=29/80)
- [9] Yi-Ting Chen, Jay Cheng, and Duan-Shin Lee, "Constructions of Linear Compressors, Nonovertaking Delay Lines, and Flexible Delay Lines for Optical Packet Switching," *IEEE Transactions on Networking*, Vol. 17, No. 6, pp. 2014-2027, December 2009.(SCI,EI) (5-year-if=3.322, rank-in-telecommunications=9/76)
- [10] Chao-Lin Yu, Cheng-Shang Chang and Duan-Shin Lee, "CR Switch: A Load-Balanced Switch with Contention and Reservation," *IEEE Transactions on Networking*, Vol. 17, No. 5, pp. 1659-1671, October 2009. (SCI,EI) (5-year-if=3.322,

rank-in-telecommunications=9/76)

- [11] Cheng-Shang Chang, Tsz-Hsuan Chao, Jay Cheng, Duan-Shin Lee, "Constructions of Fault Tolerant Linear Compressors and Linear Decompressors," *IEEE Trans. on Communications*, Vol. 57, no. 4, April 2009, pp. 1140-1150. (SCI, EI) (5-year-if=2.549, rank-in-telecommunications=15/76)
- [12] C.-C. Chen and D.-S. Lee, "A Distributed Subset Selection Algorithm for a Set of Mobile Links with Power Control," *IEEE Trans. on Wireless Communications*, Vol. 7, No. 6, p. 2221-2230, June 2008. (SCI, EI) (5-year-if=2.570, rank-in-telecommunications=12/76)
- [13] Cheng-Shang Chang, Duan-Shin Lee, Y.-J. Shih, and Chao-Lin Yu, "Mailbox Switch: A Scalable Two-Stage Switch Architecture for Conflict Resolution of Ordered Packets," *IEEE Trans. on Communications*, Vol. 56, No. 1, p. 136-148, January 2008. (SCI, EI) (5-year-if=2.549, rank-in-telecommunications=15/76)
- [14] H.-C. Chiu, C.-S. Chang, J. Cheng and Duan-Shin Lee, "A Simple Proof for the Constructions of Optical Priority Queues," *QUEUEING SYSTEMS: Theory and Applications*, Vol. 56, p. 73-77, June 2007. (SCI) (5-year-if=1.103, rank-in-computer-science-interdisciplinary-applications=76/95)
- [15] Po-Kai Huang, C.-S. Chang, Jay Cheng, Duan-Shin Lee, "Recursive Constructions of Parallel FIFO and LIFO Queues with Switched Delay Lines," *IEEE Trans. on Information Theory*, Vol. 53, No. 5, p. 1778-1798, May 2007. (EI, SCI) (5-year-if=3.936, rank-in-engineering-electrical-electronic=28/245)
- [16] Duan-Shin Lee, C.-M. Chen and C.-Y. Tang, "Weighted Fair Queueing and Compensation Techniques for Wireless Packet Switched Networks," *IEEE Trans. on Vehicular Tech*, Vol. 56, No. 1, p. 297-311, January 2007. (EI, SCI) (5-year-if=2.006, rank-in-engineering-electrical-electronic=74/245)
- [17] C.-C. Chou, C.-S. Chang, Duan-Shin Lee, J. Cheng, "A Necessary and Sufficient Condition for the Construction of 2-to-1 Optical FIFO Multiplexers by a Single Crossbar Switch and Fiber Delay Lines," *IEEE Trans. on Information Theory*, Vol. 52, no. 10, pp. 4519-4531, October 2006. (SCI, EI) (5-year-if=3.936, rank-in-engineering-electrical-electronic=28/245) (Based on this paper, Prof. J. Cheng received a best paper award by Far Eastern Y.Z. Hsu Science and Technology Memorial Foundation in 2007.)
- [18] Cheng-Shang Chang, Yi-Ting Chen, Duan-Shin Lee, "Constructions of Optical FIFO Queues," *IEEE Trans. on Information Theory*, Vol. 52, No. 6, p. 2838-2843, June 2006. (EI, SCI) (5-year-if=3.936, rank-in-engineering-electrical-electronic=28/245)
- [19] Cheng-Shang Chang, Duan-Shin Lee, and Chi-Yao Yue, "Providing Guaranteed Rate Services in the Load Balanced Birkhoff-von Neumann Switches," *IEEE Trans. on Networking*, Vol. 14, No. 3, p. 644-656, June 2006. (EI, SCI) (5-year-if=3.322,

rank-in-telecommunications=9/76)

- [20] Cheng-Shang Chang, Duan-Shin Lee, and Chao-Kei Tu, "Using Switched Delay Lines for Exact Emulation of FIFO Multiplexers with Variable Length Bursts," *IEEE Journal on Selected Areas in Communications*, Vol. 24, No. 4, p. 108-117, April 2006. (EI, SCI) (5-year-if=4.626, rank-in-telecommunications=2/76)
- [21] Duan-Shin Lee and C.-C. Chen, "QoS and Call Admission Control of Multimedia Traffic in a PCS Network," *International Journal of Communication Systems*, Vol. 17, No. 6, pp. 513 – 533, 2004. (EI, SCI) (SCI impact factor 0.178)
- [22] C.-S. Chang, Duan-Shin Lee and C.-K. Tu, "Recursive construction of FIFO optical multiplexers with switched delay lines," *IEEE Trans. on Information Theory*, Vol. 50, No. 12, pp. 3221-3233, December 2004 (EI, SCI) (SCI impact factor 2.245) **(Based on this paper, Duan-Shin Lee received a best paper award by Far Eastern Y.Z. Hsu Science and Technology Memorial Foundation in 2006.) (26/206 in the category of ENGINEERING, ELECTRICAL & ELECTRONIC)**
- [23] C.-J. Chen and Duan-Shin Lee, "Optimal OVSF Code Assignment and Reassignment in WCDMA Systems," *Journal of the Chinese Institute of Engineers*, Vol. 11, No. 4, pp. 311-325, Nov. 2004. (SCI, EI) (SCI impact factor 0.208)
- [24] Duan-Shin Lee and C.-C. Lin, "Window Adaptive TCP for EGPRS Networks," *Journal of Information Science and Engineering*, Vol. 20, No. 5, pp. 805 - 820, September 2004. (EI, SCI) (SCI impact factor 0.163)
- [25] Duan-Shin Lee and Yun-Hsiang Hsueh, "A Bandwidth Reservation Scheme Based on Road Information for the Next Generation Cellular Networks," *IEEE Trans. on Vehicular Technology*, Vol. 53, No. 1, pp. 243-252, January 2004. (EI, SCI) (SCI impact factor 0.611)
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- [27] C.-S. Chang, D.S. Lee and C.-M. Lien, "Load Balanced Birkhoff-von Neumann Switches, Part II: Multi-stage Buffering," *Computer Communications*, Vol. 25, Issue 6, pp. 623-634, 2002. (EI, SCI) (SCI impact factor 0.465)
- [28] Duan-Shin Lee, "On the Optimality and the Asymptotic Optimality of the Smallest Weighted Available Buffer Policy," *Advances Applied Prob.*, 31, 1118-1150, December 1999. (EI, SCI)
- [29] Duan-Shin Lee, "A Single Server Queue with Semi-Markovian Service Interruption," *Queueing Systems*, Vol. 27, pp. 153--178, 1997. (SCI)
- [30] R. Izmailov, Duan-Shin Lee and B. Sengupta, "Design and Analysis of a Congestion-Free Overlay on a High-Speed Network," *IEEE Trans. on Networking*, Vol. 5, No. 6, pp. 970-980, December 1997. (EI, SCI) **(6/59 in the category of**

TELECOMMUNICATIONS)

- [31] Duan-Shin Lee, "Analysis of a Two-Queue Model with Bernoulli Schedules," *J. of Applied Prob.*, Vol. 34, pp. 176-191, March 1997. (EI, SCI)
- [32] A. Iwata, R. Izmailov, Duan-Shin Lee, G. Ramamurthy and B. Sengupta, "ATM Routing Algorithms with Multiple QOS Requirements for Multimedia Internetworking," *IEICE Trans. on Communications*, Vol. E79-B, No. 8, August 1996. (EI, SCI)
- [33] Duan-Shin Lee, "A Two-Queue Model with Exhaustive and Limited Service Disciplines," *Stochastic Models*, Vol. 12, No. 2, pp. 285-305, 1996.
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- [35] Duan-Shin Lee and B. Sengupta, "Queueing Analysis of a Threshold Based Priority Scheme for ATM Networks," *IEEE Trans. on Networking*, Vol. 1, No. 6, pp. 709-717, December 1993. (EI, SCI) (6/59 in the category of TELECOMMUNICATIONS)
- [36] Duan-Shin Lee, B. Melamed, A. Reibman and B. Sengupta, "TES Modeling for Analysis of a Video Multiplexer," *Performance Evaluation*, Vol. 16, pp. 21-34, 1992. (EI, SCI)
- [37] Duan-Shin Lee and B. Sengupta, "An Approximate Analysis of a Cyclic Server Queue with Limited Service and Reservations," *Queueing Systems*, Vol. 11, pp. 153-178, 1992. (EI, SCI)
- [38] Duan-Shin Lee and B. Sengupta, "A Reservation Based Cyclic Server Queue with Limited Service," *Performance Evaluation Review*, Vol. 20, No. 1, pp. 70-77, 1992. (EI)
- [39] Duan-Shin Lee, K.-H. Tzou and S.-Q. Li, "Control and Analysis of Video Packet Loss in ATM Networks," *Optical Engineering*, Vol. 30, No.7, pp. 955-964. (EI, SCI)
- [40] Duan-Shin Lee and S.-Q. Li, "Transient Analysis of Multi-Server Queues with Markov-Modulated Poisson Arrivals and Overload Control," *Performance Evaluation*, Vol. 16, pp. 49-66, 1992. (EI, SCI)
- [41] Duan-Shin Lee and S.-Q. Li, "Transient Analysis of Switched Poisson Arrival Queue under Overload Control," *Performance Evaluation*, Vol. 17, pp. 13-29, 1993. (EI, SCI)

Conference Publications

- [1] Kuei-Hsiang Peng, Li-Heng Liou, Cheng-Shang Chang, Duan-Shin Lee, "Predicting Personality Traits of Chinese Users Based on Facebook Wall Posts," accepted by *WOCC 2015*.
- [2] Ching-Min Lien, Cheng-Shang Chang and Duan-Shin Lee, "A Necessary and Sufficient Closure Property for Two-Stage Constructions of Switching Networks," *IEEE ICC 2015*, London.
- [3] Chun-Hao Fu, Cheng-Shang Chang and Duan-Shin Lee, "A Proximity Measure for Link Prediction in Social User-Item Networks," *IEEE International Workshop on Data*

Integration and Mining, 2014.

- [4] Duan-Shin Lee, Cheng-Shang Chang, Wen-Gui Ye and Min-Chien Cheng, ``Analysis of Clustering Coefficients of Online Social Networks by Duplication Models," *IEEE ICC 2014 conference*, Sydney, Australia.
- [5] H.-S. Chueh, C.-M. Lien, C.-S. Chang, J. Cheng, and D.-S. Lee, ``Load-balanced Birkhoff-von Neumann switches and fat-tree networks," *Proceedings IEEE International Conference on High Performance Switching and Routing (HPSR'13)*, Taipei, Taiwan, July 8-11, 2013.
- [6] Ching-Min Lien, Shu-Hao Chang, Cheng-Shang Chang and Duan-Shin Lee, ``Anchored Desynchronization," *IEEE Infocom 2012*, mini-symposium.
- [7] Cheng-Shang Chang, Chin-Yi Hsu, Jay Cheng and Duan-Shin Lee, ``A General Probabilistic Framework for Detecting Community Structure in Networks," *IEEE Infocom 2011*.
- [8] Ching-Min Lien, Cheng-Shang Chang, J. Cheng and Duan-Shin Lee, ``Maximizing Throughput in Wireless Networks with Finite Buffers," *IEEE Infocom 2011*.
- [9] Hung-Shih Chueh, Ching-Min Su, Chia-Tung Kuo, Cheng-Shang Chang, and Duan-Shin Lee, ``Prototype Design and Implementation of a Load-Balanced Birkhoff-von Neumann Switch," *Proc. of 2010 IEEE Intern. Symposium on Circuits and Systems*, pp. 3909-3912, 2010.
- [10] C.-M. Lien, C.-S. Chang, J. Cheng, D.-S. Lee, J.-T. Liao, ``Using Banyan Networks for Load-balanced Switches with Incremental Update," *IEEE ICC 2010*.
- [11] Cheng-Shang Chang, Jay Cheng, Tien-Ke Huang, Xuan-Chao Huang, and Duan-Shin Lee, ``A Bit-Stuffing Algorithm for Crosstalk Avoidance in High Speed Switching," *IEEE Infocom 2010*.
- [12] Ching-Min Lien, Cheng-Shang Chang, Jay Cheng, Duan-Shin Lee and Jou-Ting Liao, ``Twister Networks and Their Applications to Load-Balanced Switches," *IEEE Infocom 2010*.
- [13] Duan-Shin Lee, Kai-Jie Hsu, Cheng-Shang Chang, Jay Cheng, ``Emulation and Approximation of a Flexible Delay Line by Parallel Non-overtaking Delay Lines", *IEEE Infocom 2009*.
- [14] Cheng-Shang Chang, Yu-Hao Hsu, Jay Cheng, and Duan-Shin Lee, ``Dynamic Frame Sizing Algorithms for CICQ Switches with Logarithm Delay," *IEEE Infocom 2009*.
- [15] Cheng-Shang Chang, Jay Cheng and Duan-Shin Lee, ``SDL Constructions of FIFO, LIFO and Absolute Contractors," *IEEE Infocom 2009*.
- [16] Hao-Wei Lan, Cheng-Shang Chang, Jay Cheng and Duan-Shin Lee, ``Constructions and Analysis of Crosstalk-free Optical Queues," *IEEE HPSR 2008*.
- [17] Duan-Shin Lee, Cheng-Shang Chang, Jay Cheng, Horng-Sheng Yan, ``Queueing Analysis of Loss Systems with Variable Optical Delay Lines," *IEEE Infocom 2008*.

- [18] Jay Cheng, Cheng-Shang Chang, Tsz-Hsuan Chao, Duan-Shin Lee, and Ching-Min Lien, "On Constructions of Optical Queues with a Limited Number of Recirculations," *IEEE Infocom 2008*.
- [19] Cheng-Shang Chang, Jay Cheng, Duan-Shin Lee and Chi-Feung Wu, "Quasi-output-buffered switches," *IEEE Infocom 2008*.
- [20] Lesley Tsz-Hsuan Chao, Cheng-Shang Chang, Duan-Shin Lee and Jay Cheng, "Constructions of Multicast Flexible Delay Lines and Optical Multicast Switches with 100% Throughput," *IEEE Globecom*, 2007.
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- [26] C.-C. Chen and Duan-Shin Lee, "A Joint Design of Distributed QoS Scheduling and Power Control for Wireless Networks," *IEEE Infocom 2006*, Barcelona, Spain.
- [27] Chih-Ying Tu, Cheng-Shang Chang, Duan-Shin Lee, and Ching-Te Chiu, "Design a Simple and High Performance Switch Using a Two-stage Architecture," *IEEE Globecom 2005*, St. Louis, Missouri, USA.
- [28] C.-S. Chang and Duan-Shin Lee, "Quasi-circuit Switching and Quasi-circuit Switches," *ITRE 2005*.
- [29] Cheng-Shang Chang, Duan-Shin Lee, and Chao-Lin Yu, "Generalization of the Pollaczek-Khinchin Formula for Throughput Analysis of Input-buffered Switches," *IEEE Infocom 2005*, Miami, Florida, USA.
- [30] Keslassy, C.-S. Chang, N. McKeown and Duan-Shin Lee, "Optimal Load-Balancing," *IEEE Infocom 2005*, Miami, Florida, USA.
- [31] C.-J. Chen and Duan-Shin Lee, "Optimal OVSF Code Assignment and Reassignment in WCDMA Systems," *The 10-th Mobile Computing Workshop*, Taichung, 2004. (Best paper award)

- [32] C.-S. Chang, Duan-Shin Lee and Y.-J. Shih, "Mailbox Switch: A Scalable Two-Stage Switch Architecture for Conflict Resolution of Ordered Packets", *IEEE Infocom 2004*, Hong Kong.
- [33] Duan-Shin Lee and C.-S. Liu, "TFC Selection for MAC Scheduling in WCDMA", *IEEE VTC 2003 Fall conference*, Orlando, Florida, USA.
- [34] Cheng-Shang Chang, Duan-Shin Lee, and Chao-Kei Tu, "Using Switched Delay Lines for Exact Emulation of FIFO Multiplexers with Variable Length Bursts", *IEEE Infocom 2003*, San Francisco, USA.
- [35] Cheng-Shang Chang, Duan-Shin Lee, and Chi-Yao Yue, "Providing Guaranteed Rate Services in the Load Balanced Birkhoff-von Neumann Switches", *IEEE Infocom 2003*, San Francisco, USA.
- [36] Duan-Shin Lee and C.-C. Chen, "QoS of Data Traffic with Voice Handoffs in a PCS Network," *IEEE Globecom 2002*, Taipei, Taiwan.
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- [44] R. Izmailov, Duan-Shin Lee and B. Sengupta, "'An Architecture for Lossless service on a Packet Switched Network," *IEEE Globecom'96*, pp. 1652--1658.
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- [55] Duan-Shin Lee and S.-Q. Li, "Transient Analysis of Multi-Server Queues with Markov-Modulated Poisson Arrivals and Overload Control," *IEEE International Infocom 1991*.
- [56] Duan-Shin Lee and S.-Q. Li, "Transient Analysis of Switched Poisson Arrival Queue under Overload Control," *1990 Conference on Information Sciences and Systems*.
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BOOKS

- [1] Cheng-Shang Chang and Duan-Shin Lee, "*Principles, architectures and mathematical theories of high performance packet switches*," National Tsing Hua University Press, 2008.