

Citation Analysis

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Networking is an interdisciplinary research field. My research experience and methodology cross the boundary of Electrical Engineering, Computer Engineering, and Computer Science. As one trend in networking research community, due to the fast evolving nature of research topics, people pay more and more attention to conference publications, especially those top conferences such as INFOCOM, SIGCOMM, and SIGMETRICS, etc. As a result, top conferences are more competitive than most journals. To publish a paper in a top networking conference, authors have to do a very solid and comprehensive work, and write a lengthy paper with double column, ten or fourteen pages in nine or ten points fonts.

To faithfully reflect the impact of our papers to the networking community, I will report my citation analysis for both journal papers (using ISI Web Science) and conference papers (using Google Scholar). The acceptance ratios of selected conferences have also been reported in my CV.

1 Coauthors

During my whole research career, I am fortunate to work with a set of brilliant collaborators and publish research work in high-quality journals and highly selective top conferences. Table 2 lists in alphabetic order my co-authors in the past five years. Many research projects involve collaborative work by a group of students, postdoc, professors and researchers. The general protocol for authorship ordering that we have been following is: student/postdoc group go first, professors and researchers are in the second group; within each group, individuals are ranked by their contribution, if their contribution is comparable, they are listed in alphabetic order.

2 Journal Impact Factors

Table 1 presents the impact factors in the past three years for journals that I have published.

Table 1: Journal Impact Factors in the Past Three Years from ISI Web Science

| Journal | 2007 | 2008 | 2009 |
|---|-------------|-------------|-------------|
| IEEE/ACM Transactions on Networking | 1.831 | 2.576 | 2.051 |
| IEEE Journal On Selected Areas In Communications | 1.799 | 4.249 | 3.758 |
| IEEE Transactions on Multimedia | 1.518 | 2.288 | 1.822 |
| IEEE Transactions On Automatic Control | 2.824 | 3.293 | 2.556 |
| IEEE Communications Magazine | 1.704 | 2.799 | 2.466 |
| Computer Networks | 0.829 | 1.304 | 1.201 |
| IEEE Transactions on Parallel and Distributed Systems | 1.146 | 1.916 | 1.733 |
| ACM Transactions on Modeling and Computer Simulation | - | 1.029 | 0.684 |
| Discrete Event Dynamic Systems: Theory & Applications | 0.545 | 0.974 | 0.921 |

3 Citations

In the attachment, we first report the citations of all journal and conference papers from from Google Scholar, then we report the citations of journal papers only from ISI Web science (only citations generated by other journal papers are counted).

Table 2: Coauthors in Past Five Years

| Last Name | First Name | Affiliation | Project |
|-----------|------------|-------------------------------------|---------------------------------|
| Bolot | Jean | Researcher in Sprint Labs | Measurement |
| Bu | Tian | Researcher in Bell Labs | TCP-friendly VoIP |
| Buford | John | Researcher in Panasonic Labs | Streaming Relay |
| Fu | Zhenghua | Researcher in IBM Watson | P2P VoD |
| Ge | Zihui | Researcher in AT&T Labs | Traffic Engineering |
| Gong | Weibo | Professor, ECE UMass, PhD Adviser | Fluid Model, Congestion Control |
| Guo | Yang | Researcher, Thomson Labs | P2P & Social Networks |
| Hei | Xiaojun | Postdoc (Keith), CSE Poly | P2P |
| Hua | Sha | PhD (Shiv), ECE Poly | Wireless Video |
| Hu | Hao | PhD (Yao), ECE Poly | Scalable Video |
| Huang | Yong | PhD, ECE UMass | Fluid Queueing |
| Kurose | Jim | Professor, CS UMass, Postdoc Mentor | Robust Network Design |
| Kumar | Rakesh | PhD (Keith & Shiv), ECE Poly | P2P |
| Le | Tan | My PhD Student | Wireless Opportunistic Routing |
| Liang | Chao | My PhD Student | P2P, Traffic Engineering |
| Liang | Jian | PhD (Keith), CSE Poly | P2P |
| Liu | Hang | Researcher, Thomson Labs | P2P & Wireless Video |
| Misra | Vishal | Professor, CS Columbia | Fluid Model, Self-similarity |
| Mobius | MarKus | Professor, Economics, Harvard | P2P Incentive |
| Panwar | Shiv | Professor, ECE Poly | P2P, Wireless Video |
| Ross | Keith | Professor, CSE Poly | P2P |
| Towsley | Don | Professor, CS UMass, Postdoc Mentor | Fluid Model, Measurement |
| Wang | Angela | PhD (Keith), CSE Poly | Streaming Relay |
| Wang | Yao | Professor, ECE Poly | P2P Incentive |
| Wolf | Tilman | Professor, ECE UMass | TCP Pacing |
| Wu | Chai | Researcher in IBM Watson | P2P VoD |
| Wu | Di | Postdoc (Keith), CSE Poly | P2P |
| Yang | Xiwang | My PhD Student | Social Networks |
| Ye | Tao | Researcher in Sprint Labs | Measurement |
| Zhang | Chun | Researcher in IBM | Robust Network Design |
| Zhang | Honggang | Professor, Suffolk University | Overlay Optimization |
| Zink | Michael | Professor, ECE UMass | Sensor Networks |

Google Scholar Citations for Yong Liu's Papers

| Citations | Paper |
|-----------|--|
| 505 | Xiaojun Hei, Chao Liang, Jian Liang, Yong Liu and Keith Ross, "A Measurement Study of a Large-Scale P2P IPTV System", in IEEE Transactions on Multimedia, Volume 9, Number 8, Pages 1672 -- 1687, December, 2007 |
| 150 | Rakesh Kumar, Yong Liu and Keith Ross, "Stochastic Fluid Theory for P2P Streaming Systems", in the Proceedings of IEEE Conference on Computer and Communications (INFOCOM), Pages 919 -- 927, May, 2007 (Acceptance Ratio: 18%) |
| 104 | Yong Liu, Francesco Lo Presti, Vishal Misra, Don Towsley and Yu Gu, "Fluid Models and Solutions for Large-Scale IP Networks", in the Proceedings of ACM International Conference on Measurement and Modeling of Computer Systems (SIGMETRICS)'03, Pages 91 -- 101, San Diego, June 2003. (Acceptance Ratio: 11.7%) |
| 84 | Xiaojun Hei, Yong Liu and Keith Ross, "Inferring Network-Wide Quality in P2P Live Streaming Systems", in IEEE Journal on Selected Areas in Communications, special issue on advances in P2P streaming, Volume 25, Number 9, Pages 1640 -- 1654, December 2007 |
| 81 | Xiang Yu, Chunming Qiao and Yong Liu, "TCP Implementations and False Time Out Detection in Optical Burst Switching Networks", in the Proceedings of IEEE Conference on Computer and Communications (INFOCOM)'04, Pages 774 -- 784, Hong Kong, March 2004. (Acceptance Ratio: 18.4%) |
| 65 | Christopher Hollot, Yong Liu, Vishal Misra and Don Towsley, "Unresponsive Flows and AQM Performance", in the Proceedings of IEEE Conference on Computer and Communications (INFOCOM)'03, Volume 22, No. 1, Pages 85 -- 95, San Francisco, April 2003, (Acceptance Ratio: 20.8%) |
| 63 | Yong Liu, Yang Guo and Chao Liang, "A Survey on Peer-to-Peer Video Streaming Systems", in Journal of Peer-to-Peer Networking and Applications, (Springer), Pages 18 -- 28, February, 2008 |
| 59 | Xiaojun Hei, Yong Liu and Keith Ross, "IPTV over P2P Streaming Networks: the Mesh-pull Approach", in IEEE Communications Magazine, Pages 86 -- 92, February, 2008 |
| 54 | Yong Liu, "On the Minimum Delay Peer-to-Peer Video Streaming: how realtime can it be?", in the Proceedings of ACM Multimedia, Pages 127 -- 136, September, 2007 (Acceptance Ratio: 19%) |
| 50 | Weibo Gong, Yong Liu, Vishal Misra and Don Towsley, "On the Tails of Web File Size Distributions", in the Proceedings of 39th Annual Allerton Conference on Communication, Control and Computing, October 2001 |
| 48 | Yu Gu, Yong Liu and Don Towsley, "On Integrating Fluid Models with Packet Simulation", in the Proceedings of IEEE Conference on Computer and Communications (INFOCOM)'04, Pages 2856 -- 2866, Hong Kong, March 2004. (Acceptance Ratio: 18.4%) |
| 44 | Weibo Gong, Yong Liu, Vishal Misra and Don Towsley, "Self-Similarity and Long Range Dependence on the Internet: A second look at the evidence, origins and implications", in Computer Networks Journal, Volume 48, Issue 3, Pages 377 -- 399, June 2005 |
| 37 | Yong Liu, Honggang Zhang, Weibo Gong and Don Towsley, "On the Interaction Between Overlay Routing and Traffic Engineering", in the Proceedings of IEEE Conference on Computer and Communications (INFOCOM)'05, Volume 4, Pages 2543 -- 2553, Miami, March 2005 (Acceptance Ratio: 17.2%) |

Google Scholar Citations for Yong Liu's Papers

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| 33 | Yong Liu, Francesco Lo Presti, Vishal Misra, Don Towsley and Yu Gu, "Scalable Fluid Models and Simulations for Large-Scale IP Networks", in ACM Transactions on Modeling and Computer Simulation, Vol. 14, No. 3, Pages 305 -- 324, July 2004 |
| 32 | Chun Zhang, Zihui Ge, Jim Kurose, Yong Liu, and Don Towsley, "Optimal Routing with Multiple Traffic Matrices: Tradeoff between Average Case and Worst Case Performance", in the Proceedings of 13th IEEE International Conference on Network Protocols (ICNP), Pages 215 -- 224, November, 2005 (Acceptance Ratio: 17%) |
| 32 | Chun Zhang, Yong Liu, Weibo Gong, Jim Kurose, Robert Moll and Don Towsley, "On Optimal Routing with Multiple Traffic Matrices", in the Proceedings of IEEE Conference on Computer and Communications (INFOCOM)'05, Volume 1, Pages 607 -- 618, Miami, March 2005. (Acceptance Ratio: 17.2%) |
| 30 | Di Wu, Yong Liu and Keith Ross, "Queuing Network Models for Multi-Channel P2P Live Streaming Systems", in the Proceedings of IEEE Conference on Computer and Communications (INFOCOM), Pages 73 -- 81, April, 2009, (Acceptance Ratio: 19%, bf sole winner of the Best Paper Award) |
| 27 | Yong Liu and Weibo Gong, "Perturbation Analysis for Stochastic Fluid Queueing Systems", in Discrete Event Dynamic Systems: Theory and Applications, Volume 12, No. 4, Pages 391-- 416, 2002 |
| 27 | Chao Liang, Yang Guo and Yong Liu, "Is Random Scheduling Sufficient in P2P Video Streaming?", in the Proceedings of the 28th International Conference on Distributed Computing Systems (ICDCS), Pages 53 -- 60, June, 2008 (Acceptance Ratio: 16%) |
| 25 | Yong Liu, Yu Gu, Honggang Zhang, Weibo Gong and Don Towsley, "Application Level Relay for High-bandwidth Data Transport", in the Proceedings of the First Workshop on Networks for Grid Applications (GridNets), Pages 1 -- 10, San Jose, October 2004, bf sole winner of the Best Paper award |
| 24 | Di Wu, Chao Liang, Yong Liu and Keith Ross, "View-Upload Decoupling: A Redesign of Multi-Channel P2P Video Systems", in the Proceedings of IEEE Conference on Computer and Communications (INFOCOM) Mini-Conference, Pages 2726 -- 2730, April, 2009, (Acceptance Ratio: 26%) |
| 21 | Yang Guo , Chao Liang, and Yong Liu, "Adaptive Queue-based Chunk Scheduling for P2P Live Streaming", in the Proceedings of IFIP Networking, Pages 433 -- 444, May, 2008 |
| 18 | Yong Liu, Weibo Gong and Prashant Shenoy, "On the Impact of Concurrent Downloads", in Proceedings of Winter Simulation Conference, Pages 1300 -- 1305, Arlington, December 2001 |
| 16 | Yong Liu, Don Towsley, Tao Ye and Jean Bolot, "An Information-Theoretic Approach to Network Monitoring and Measurement", in the Proceedings of ACM SIGCOMM Internet Measurement Conference (IMC), Pages 159 -- 172, October, 2005 (Acceptance Ratio: 15%) |
| 15 | Tian Bu, Yong Liu, and Don Towsley, "On the TCP-Friendliness of VoIP Traffic", in the Proceedings of IEEE Conference on Computer and Communications (INFOCOM), April, 2006 (Acceptance Ratio: 18%) |

Google Scholar Citations for Yong Liu's Papers

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| 14 | Chun Zhang, Jim Kurose, Yong Liu, Don Towsley and Michael Zink, "A Distributed Algorithm for Joint Sensing and Routing in Wireless Networks with Non-Steerable Directional Antennas", in the Proceedings of 14th IEEE International Conference on Network Protocols (ICNP), Pages 218 -- 227, November, 2006 (Acceptance Ratio: 14.2%) |
| 12 | Yong Liu and Weibo Gong, "On Fluid Queueing System with Strict Priority", in IEEE Transactions on Automatic Control, Volume 48, No. 12, Pages 2079 -- 2088, December, 2003 |
| 11 | Chao Liang, Yang Guo and Yong Liu, "Hierarchically Clustered P2P Streaming System", in the Proceedings of IEEE Global Communications Conference (GLOBECOM), Pages 236 -- 241, November, 2007 |
| 7 | Songlin Cai, Yong Liu and Weibo Gong, "Analysis of an AIMD Based Collision Avoidance Protocol in Wireless Data Networks", in the Proceedings of IEEE Conference on Decision and Control (CDC)'03, Volume 1, Pages 104 -- 109, Hawaii, December 2003 |
| 6 | Chao Liang, Zhenghua Fu, Yong Liu, and Chai Wah Wu, "iPASS: Incentivized Peer-assisted System for Asynchronous Streaming", in the Proceedings of IEEE Conference on Computer and Communications (INFOCOM) Mini-Conference, Pages 2741 -- 2745, April, 2009, (Acceptance Ratio: 26%) |
| 5 | Chao Liang, Yang Guo and Yong Liu, "Investigating the Scheduling Sensitivity of P2P Video Streaming: an experimental study", in IEEE Transactions on Multimedia, Volume 11, Number 3, Pages 348 -- 360, April 2009 |
| 5 | Yang Guo, Chao Liang, and Yong Liu, "dHCPS: Decentralized Hierarchically Clustered P2P Video Streaming", in the Proceedings of ACM International Conference on Image and Video Retrieval (CIVR), Pages 655 -- 662, July, 2008 |
| 4 | John Buford, Angela Wang, Xiaojun Hei, Yong Liu and Keith Ross, "Discovery of In-Band Streaming Services in Peer-to-Peer Overlays", in the Proceedings of IEEE Global Communications Conference (GLOBECOM), Pages 242 -- 247, November, 2007 |
| 3 | Yong Huang, Yong Liu, Weibo Gong and Don Towsley, "Two-level Stochastic Fluid Tandem Queueing Model for Burst Impact Analysis", in the Proceedings of IEEE Conference on Decision and Control (CDC), Pages 3042 -- 3047, December, 2007 |
| 3 | Xiaojun Hei, Chao Liang, Jian Liang, Yong Liu and Keith Ross, "Insight into PPLive: A Measurement Study of a Large-Scale P2P IPTV System", WWW 2006 workshop of IPTV services over World Wide Web, May 2006 |
| 2 | Yan Cai, Yong Liu, Weibo Gong and Tilman Wolf, "Impact of Arrival Burstiness on Queue Length: An Infinitesimal Perturbation Analysis", in the Proceedings of IEEE Conference on Decision and Control (CDC), Pages 7068 -- 7073, December, 2009 |
| 2 | Tan Le and Yong Liu, "On the Capacity of Hybrid Wireless Networks with Opportunistic Routing", in the Proceedings of International Conference on Wireless Algorithms, Systems and Applications, Pages 210 -- 223, August, 2009 |
| 2 | Chao Liang, Yong Liu, and Keith Ross, "Topology Optimization in Multi-Tree Based P2P Streaming System", in the Proceedings of International Conference on Tools with Artificial Intelligence, Pages 806 -- 813, November, 2009 |
| 1 | Yong Liu, "Delay Bounds of Chunk-based Peer-to-Peer Video Streaming", in IEEE/ACM Transactions on Networking, Volume 18, Number 4, Pages 1195 -- 1206, August 2010 |

Google Scholar Citations for Yong Liu's Papers

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| 1 | Zhengye Liu, Hao Hu, Yong Liu, Keith Ross, Yao Wang, and Markus Mobius, "P2P Trading in Social Networks: The Value of Staying Connected", in the Proceedings of IEEE Conference on Computer and Communications (INFOCOM), Pages 2489 -- 2497, March, 2010 (Acceptance Ratio: 17.4%) |
| 1 | Sha Hua, Yang Guo, Yong Liu, Hang Liu, and Shivendra Panwar, "Scalable Video Multicast in Hybrid 3G/Ad-hoc Networks", in the Proceedings of IEEE IEEE Global Communications Conference (GLOBECOM), Pages 4662 -- 4667, November, 2009 |
| 1 | Yong Liu and Weibo Gong, "Challenges to Congestion Control posed by Concurrent Downloads", in the Proceedings of 41st IEEE Conference on Decision and Control (CDC)'02, Volume 2, Pages 2017-2022, Las Vegas, December 2002 |
| 0 | Chao Liang, Zhenghua Fu, Yong Liu and Chai Wah Wu, "iPASS: Incentivized Peer-assisted System for Asynchronous Streaming", in IEEE Transactions on Parallel and Distributed Systems, Volume 21, Number 9, Pages 1354 -- 1367, September, 2010 |
| 0 | Tan Ba Le and Yong Liu, "On the Capacity of Hybrid Wireless Networks with Opportunistic Routing", in EURASIP Journal on Wireless Communications and Networking, Volume 2010, Pages 32 -- 40, January 2010 |
| 0 | Zhiyong Huang, Xiaoping Zeng, and Yong Liu, "Detecting and Blocking P2P Botnets through Contact Tracing Chains", in International Journal of Internet Protocol Technology, Volume 5, No.1/2, Pages 44 -- 54, 2010 |
| 0 | Hao Hu, Yang Guo, and Yong Liu, "Mesh-based Peer-to-Peer Layered Video Streaming With Taxation", in the Proceedings of ACM Workshop on Network and Operating System Support for Digital Audio and Video (NOSSDAV), Pages 27 -- 32, June, 2010 |
| 0 | Chao Liang, Zihui Ge and Yong Liu, "Joint Traffic Blocking and Routing under Network Failures and Maintenances", in the Proceedings of IEEE Global Communications Conference (GLOBECOM), Pages 2752 -- 2756, November, 2007 |
| 0 | Songlin Cai, Yong Liu and Weibo Gong, "Client-Controlled Slow TCP and Denial of Service", in the Proceedings of IEEE Conference on Decision and Control (CDC)'04, Volume 1, Pages 81 -- 86, December 2004 |

Record 1 of 12

Author(s): Hei, XJ (Hei, Xiaojun); Liang, C (Liang, Chao); Liang, J (Liang, Jian); Liu, Y (Liu, Yong); Ross, KW (Ross, Keith W.)

Title: A measurement study of a large-scale P2P IPTV system

Source: IEEE TRANSACTIONS ON MULTIMEDIA, 9 (8): 1672-1687 DEC 2007

Times Cited: 92

ISSN: 1520-9210

DOI: 10.1109/TMM.2007.907451

Record 2 of 12

Author(s): Hei, XJ (Hei, Xiaojun); Liu, Y (Liu, Yong); Ross, KW (Ross, Keith W.)

Title: Inferring network-wide quality in P2P live streaming systems

Source: IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, 25 (9): 1640-1654 DEC 2007

Times Cited: 21

ISSN: 0733-8716

DOI: 10.1109/JSAC.2007.071204

Record 3 of 12

Author(s): Gong, WB; Liu, Y; Misra, V; Towsley, D

Title: Self-similarity and long range dependence on the internet: a second look at the evidence, origins and implications

Source: COMPUTER NETWORKS, 48 (3): 377-399 JUN 21 2005

Times Cited: 20

ISSN: 1389-1286

Record 4 of 12

Author(s): Hei, XJ (Hei, Xiaojun); Liu, Y (Liu, Yong); Ross, KW (Ross, Keith W.)

Title: IPTV over P2P streaming networks: The mesh-pull approach

Source: IEEE COMMUNICATIONS MAGAZINE, 46 (2): 86-92 FEB 2008

Times Cited: 11

ISSN: 0163-6804

Record 5 of 12

Author(s): Liu, Y; Gong, WB

Title: Perturbation analysis for stochastic fluid queueing systems

Source: DISCRETE EVENT DYNAMIC SYSTEMS-THEORY AND APPLICATIONS, 12 (4): 391-416 OCT 2002

Times Cited: 5

ISSN: 0924-6703

Record 6 of 12

Author(s): Liu, Y; Gong, WB

Title: On fluid queueing systems with strict priority

Source: IEEE TRANSACTIONS ON AUTOMATIC CONTROL, 48 (12): 2079-2088 DEC 2003

Times Cited: 4

ISSN: 0018-9286

DOI: 10.1109/TAC.2003.820060

Record 7 of 12

Author(s): Liang, C (Liang, Chao); Guo, Y (Guo, Yang); Liu, Y (Liu, Yong)

Title: Investigating the Scheduling Sensitivity of P2P Video Streaming: An Experimental Study

Source: IEEE TRANSACTIONS ON MULTIMEDIA, 11 (3): 348-360 APR 2009

Times Cited: 1

ISSN: 1520-9210

DOI: 10.1109/TMM.2009.2012909

Record 8 of 12

Author(s): Liu, Y (Liu, Yong)

Title: Delay Bounds of Chunk-Based Peer-to-Peer Video Streaming

Source: IEEE-ACM TRANSACTIONS ON NETWORKING, 18 (4): 1195-1206 AUG 2010

Times Cited: 0

ISSN: 1063-6692

DOI: 10.1109/TNET.2009.2038155

Record 9 of 12

Author(s): Wu, D (Wu, Di); Liu, Y (Liu, Yong); Ross, KW (Ross, Keith W.)

Title: Modeling and Analysis of Multichannel P2P Live Video Systems

Source: IEEE-ACM TRANSACTIONS ON NETWORKING, 18 (4): 1248-1260 AUG 2010

Times Cited: 0

ISSN: 1063-6692

DOI: 10.1109/TNET.2009.2038910

Record 10 of 12

Author(s): Wu, D (Wu, Di); Liang, C (Liang, Chao); Liu, Y (Liu, Yong); Ross, KW (Ross, Keith W.)

Title: Redesigning multi-channel P2P live video systems with View-Upload Decoupling

Source: COMPUTER NETWORKS, 54 (12): 2007-2018 Sp. Iss. SI AUG 26 2010

Times Cited: 0

ISSN: 1389-1286

DOI: 10.1016/j.comnet.2010.03.024

Record 11 of 12

Author(s): Liang, C (Liang, Chao); Fu, ZH (Fu, Zhenghua); Liu, Y (Liu, Yong); Wu, CW (Wu, Chai Wah)

Title: Incentivized Peer-Assisted Streaming for On-Demand Services

Source: IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS, 21 (9): 1354-1367 SEP 2010

Times Cited: 0

ISSN: 1045-9219

DOI: 10.1109/TPDS.2009.167

Record 12 of 12

Author(s): Le, T (Le, Tan); Liu, Y (Liu, Yong)

Title: On the Capacity of Hybrid Wireless Networks with Opportunistic Routing

Source: EURASIP JOURNAL ON WIRELESS COMMUNICATIONS AND NETWORKING: Art. No. 202197 2010

Times Cited: 0

ISSN: 1687-1499

Article Number: 202197

DOI: 10.1155/2010/202197

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