

Xiaoming Fu, Full Professor, PhD.

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Education, Employment and Work Experience

Since 2015	Director, Sino-German Institute of Social Computing, University of Göttingen, Germany
Since 2012	International Officer – Computer Science, Faculty of Mathematics and Computer Science, University of Göttingen
2010-2012	Dean for Academic Affairs – Computer Science, Faculty of Mathematics and Computer Science, University of Göttingen
Since 2007	University Professor and Head of Computer Networks Group, University of Göttingen
Since 2005	Visiting Professor/Scholar at Tsinghua U. (2010-), Nanjing U. (2010-), Fudan U. (2011-), Hong Kong PolyU (2015), China; Columbia U. (2008, 2009), UCLA (2009), USA; Cambridge (2005, 2007), UK; Uppsala (2014, 2015), Sweden; UPMC/Paris 6 (2014, 2016), France
2003-2005	Specialist Task Force Expert (STF 256 & STF 276), European Telecommunications Standards Institute , Sophia Antipolis, France
2007	Habilitation in Computer Science, University of Göttingen
2002-2007	Assistant Professor, Institute of Computer Science, University of Göttingen
2000-2002	Member of Scientific Staff, Telecommunications Networks Group , TU Berlin , Germany
2000	PhD in Computer Science, Tsinghua University , Beijing, China
1997-2000	Research Assistant, Department of Computer Science, Tsinghua University, China
1997	Master's degree in Computer Science (with honors), Northeastern University , China
1994	Bachelor's degree in Electrical Engineering, Northeastern University, China

Awards and Honors

2014-2015	IEEE Distinguished Lecturer (Communications Society)
2014	Best Paper Award, ACM 1 st Conference on Information-Centric Networking (ICN 2014)
2013	Best Paper Award, IEEE Int'l Workshop on Local & Metropolitan Area Networks (LANMAN)
2009	Changjiang Scholar Visiting Professor, Tsinghua University, China (Awarded by the Ministry of Education, PR China)
2009	Fulbright Scholar Visiting Professor, UCLA, USA (Awarded by the US Department of State)
2009	IEEE Senior Member
2005	University of Göttingen Foundation's Prize for Exceptional Publications by Young Scientists

Professional Activities

Leaderships in Scientific Communities	<u>Chair</u> (2011-2013) and <u>Awards Committee Chair</u> (2014-) of Internet Technical Committee (ITC) , IEEE Communications Society (ComSoc) and the Internet Society (ISOC) <u>Vice Chair</u> (2010-2012), <u>Secretary</u> (2008-2010) of IEEE ComSoc TCCC <u>Coordinator & Steering Committee Chair</u> : EU FP7 GreenICN , MobileCloud , CleanSky and H2020 ICN2020 projects <u>Workpackage Leader & Steering Committee Member</u> : EU FP6 ENABLE, MING-T and VIDIOS projects
International Research Grant Committees	EU FP7 (2012) and Horizon 2020 (2014), DFG (2015), National Natural Science Foundation of China (2014), Research Foundation – Flanders, Belgium (2012), Swedish Foundation for Strategic Research (2009, 2011), Research Grants Council of Hong Kong (2010, 2014, 2015)
Scientific Editorial Board	<u>Technical Editor</u> , IEEE Communications Magazine (2013-); <u>Associate Editor</u> , IEEE Transactions on Network and Service Management (2011-); <u>Area Editor</u> , Elsevier Computer Networks (2012-2015), Computer Communications (2008-); <u>Guest Editor</u> of IEEE Communications Magazine (Feature Topic on Mobile Cloud Computing, Mar. 2015), IEEE Network (Special Issue on Implications and Control of Middleboxes in the Internet, Sept/Oct. 2008), Elsevier Computer Networks (Special Issue on Measurement-based Optimization of P2P Networking and Applications, Feb. 2012), and Computer Communications (Special Issue on Online Social Networks, Jan. 2016).

Conference	<u>General Co-Chair</u> of ACM ICN'16, IEEE ICNP'13, IEEE P2PNet'10;
Organization & Tech. Program Committees	<u>TPC Co-Chair</u> for IEEE/ACM/VDE/GI NetSys'17, ACM CFI'16, IEEE CloudNet'13, ICCN'12-AIC, ICCCN'10-ISAP, GLOBECOM'09-NGNI, ACM KDD'12-HotSocial, MobiArch'06-'07,'12, HotPlanet'09, KiVS'09-NVWS, DFG-JSPS Workshop on Future Networks and Mobile Sensing'15, DFG-NSFC Symp. on Social Computing'16, DFG-NSFC Workshop on IoT'10...;
	<u>TPC Member/Session Chair</u> for a number of conferences, incl. ACM CoNEXT, COSN, ANCS, IEEE INFOCOM, ICNP, ICDCS, IWQoS, CloudCom, CCW, ICDM, IFIP Networking, etc.;
	<u>Workshops Co-Chair</u> : ACM SIGCOMM'17, MobiCom'10, MobiHoc'10, IEEE ICNP'16;
	<u>Publicity Co-Chair</u> : IEEE ICNP'09, ICNP'11, IWQoS'10;
	<u>Steering Committee Member/Chair</u> of international conferences: ACM COSN, MobiArch, HotPlanet, IEEE INFOCOM Global Internet Symposium, INFOCOM NOM, CCW.
Keynote/Tutorials/Panelist	<u>Keynote</u> at ACM HotPOST@MobiHoc'16, IEEE Global Internet Symp.'15, SocialComputingWS'15, IFIP Networking'12, Conf. on social nets & social capitals'12; <u>panelist/panel chair</u> at LANMAN'15, ICNP'14 & PhD Forum, KDD'12-HotSocial, MobiCom'09-MobiArch, MobiCom'09-MICNET, KiVS'09;
	<u>Tutorials</u> at Networking'06, ICCCN'10, Frontiers of Journalism & Communication Summer School'12 at Renmin University of China.
PhD Supervision and External Review	Successfully supervised 16 PhDs (and 10 more are ongoing). External PhD thesis review: Waterford Inst. of Technology (2016), Telecom SudParis (2015), Aalto U (2014, 2015), U Liège (2012), VU Brussels (2011), U Helsinki (2010), Dublin City U (2010), U Oslo (2010), Tsinghua (2010)

University Services

Since 2015	Founding Director, Sino-German Institute of Social Computing, University of Göttingen
Since 2011	Steering Committee of new study program 'Master/PhD in Internet Technology and Information Systems (ITIS)', Universities of Göttingen, Hannover, Braunschweig & Clausthal
Since 2009	Board Member of Institute of Computer Science, Faculty of Mathematics and Computer Science, University of Göttingen <i>Established and coordinating cooperation and exchange agreements with several universities in USA (Columbia U., UCLA), France (UPMC), Italy (U. Roma2), and China (Tsinghua U., Peking U., Nanjing U., and Fudan U.)</i>
2014 – 2016	Hosting a Humboldt Postdoc Fellow (Dr. Xu Chen, now full professor at Sun Yat-sen University, China)
2011 – 2013	Hosting a Humboldt Postdoc Fellow (Dr. Wenzhong Li, now Associate Professor at Nanjing University, China)
Since 2005	Thesis Committee Member of "PhD in Computer Science" program, University of Göttingen

Ongoing and Supervised Doctoral Students

Candidates and thesis titles	Start	End	Further career of the candidate
Ding, Shichang	2016	Ongoing	
de Benedetto, Jacop	2016	Ongoing	
Malik, Ahsan	2016	Ongoing	
Silvestro, Alessio	2016	Ongoing	
Prasad, Abhinandan	2015	Ongoing	
Kulkarni, Sameer	2015	Ongoing	
Adhatarao, Sripriya Srikant	2015	Ongoing	
Barakat, Osamah Lutf	2015	Ongoing	
Zhao, Tao	2015	Ongoing	
Tschofenig, Hannes: IP-based Emergency Services	2009	Ongoing	Senior Research Scientist at ARM Ltd. Also: Member of Internet Architecture Board (IAB) (2010-14)
Huang, Hong: Triadic Closure and Its Influence in Social Networks. A Microscopic View of Network Structural Dynamics ('summa cum laude')	2012	2016	Senior Researcher at Institute of Computer Science, University of Göttingen

Tao, Narisu: Data Driven Network Analysis and Applications	2011	2015	Data Scientist at SAP
Zhang, Yuan: Dynamic Resource Scheduling in Cloud Data Centers	2011	2015	Assistant Professor at Chinese University of Communications (CUC), Beijing, China
Koll, David: Towards a Robust and Secure Decentralized Online Social Network ('summa cum laude')	2011	2015	Senior Researcher at Institute of Computer Science, University of Göttingen
Chen, Jiachen: A Content-Oriented Architecture for Publish/Subscribe Systems ('summa cum laude')	2010	2015	Research Associate at WinLab, Rutgers University, USA
Jiao, Lei: Online Social Network Data Placement over Clouds	2010	2014	Tenure-Track Assistant Professor at University of Oregon, USA
Zhu, Konglin: Social-based Data Routing Strategies in Delay Tolerant Networks	2010	2014	Assistant Professor at Beijing University of Posts and Telecommunications (BUPT), China
Hameed, Sufian: Leveraging Email based Social Networks to Prevent Spam - Framework, System Design and Evaluation	2009	2012	Assistant Professor at FAST-NUCES , Pakistan
Tegeler, Florian: Content Agnostic Malware Detection in Networks (grade: 'summa cum laude')	2008	2012	R&D Manager at Mahr GmbH, Germany
Neumann, Niklas: Decentralized Network Based Mobility Management: Framework, System Design and Evaluation	2007	2011	Consultant
Stiemerling, Martin: Cooperative Internet Access in Resource Constrained Environments	2007	2011	Professor at University of Applied Sciences Darmstadt, Germany. Also: IESG Member and IETF Transport Area Director (2012-2016)
Arumaithurai, Mayutan: Network Friendly Congestion Control: Framework, Protocol Design and Evaluation	2007	2010	Junior Research Group leader at NET Group, University of Göttingen
Shi, Lei: On the Network Monitoring and Fault Management of Next Generation Networks	2007	2010	Senior Research Scientist at Telecommunication Software and Systems Group (TSSG), Waterford Inst. of Tech., Ireland
Steinleitner, Niklas: Firewall Traversal in Mobile IPv6 Networks	2006	2008	Consultant
Kuo, Fang-Chun: Exploiting Network Coding in Lossy Wireless Networks	2005	2009	Senior Research Scientist at European Center for Information and Communication Technologies (EICT)
Lei, Jun: Media Distribution Using Overlay Multicast and Peer-to-Peer Technologies ('summa cum laude')	2004	2008	Research Scientist at Nokia Solutions Networks

Research Grants

Project title and funding sources	Start	End
ICN2020 – Advancing ICN towards real-world deployment through research, innovative applications, and global scale experimentation, funded by EU H2020 ICT EU-Japan (coordinator)	2016	2019
SocialBD – Social Networks in Big Data, funded by Lindemann Foundation, Germany	2016	2017
DFG-NSFC Symposium on Social Computing, funded by DFG	2016	2016
DFG-JSPS Symposium on Future Network and Pervasive Computing, funded by DFG	2015	2015
Socially-Motivated Cooperative Device-to-Device Communications, funded by Alexander von Humboldt Foundation	2014	2016
CleanSky – Network for Cloud Computing Eco-System, funded by EU FP7 MC-ITN (coordinator)	2014	2018
MobileCloud – Linking Sino-European Research Institutions in the Mobile Cloud Computing Era, funded by EU FP7 MC-IRSES (coordinator)	2014	2016

GreenICN – Architecture and Applications of Green Information Centric Networking, funded by EU FP7 ICT STREP (coordinator)	2013	2016
SWZ – Simulation Research Center, funded by State Lower Saxony & Volkswagen Foundation	2013	2016
Conference: International Conference on Network Protocols (ICNP 2013), funded by DFG	2013	2013
Collaborative Data Dissemination in Delay Tolerant Mobile Ad Hoc Networks, funded by Alexander von Humboldt Foundation	2012	2014
SocialNets – Structure, Functionality and Dynamics of Social Networks, funded by Lindemann Foundation, Germany	2012	2013
Principles and Design of Next-Generation Internet Media Streaming (w/ Fudan University), funded by DAAD/CSC PPP-China	2011	2013
Future Internet Mobility and Routing, funded by Fulbright Foundation/US Department of State	2009	2009
New Advances and Applications of Next Generation Internet Signaling (w/ Columbia University), funded by DAAD PPP-USA	2008	2009
ADVMM – Advanced Mobility Management in 4G Networks, funded by Huawei Research	2007	2008
MING-T – Multistandard integrated network convergence for global mobile and broadcast technologies, funded by EU FP6 (IST STREP)	2007	2009
ENABLE – Enabling Efficient and Operational Mobility in Large Heterogeneous IP Networks, funded by EU FP6 (IST STREP)	2006	2008
Daidalos-II – Designing Advanced network Interfaces for the Delivery and Administration of Location independent, Optimised personal Services, funded by EU FP6 (IST Integrated Project)	2006	2008
PTLS - Performance Study of Transport Layer Security, funded by Siemens Research	2005	2006
VIDIOS – Video Distribution over MPLS Networks, funded by EU FP6 Eureka Celtic and Deutsche Telecom	2005	2006
MobiAuth – QoS and Authentication Issues in IP Mobility, Panasonic Princeton Lab, USA	2003	2004

Selected Journal Publications

1. Song Yang, Philipp Wieder, Ramin Yahyapour, Stojan Trajanovski, Xiaoming Fu, Reliable Virtual Machine Placement and Routing in Clouds, **IEEE Transactions on Parallel and Distributed Systems**, DOI: 10.1109/TPDS.2017.2693273, in press.
2. Lingjun Pu, Xu Chen, Jingdong Xu, Xiaoming Fu, Content Retrieval at the Edge: A Social-aware and Named Data Cooperative Framework, **IEEE Transactions on Emerging Topics in Computing**, DOI: 10.1109/TETC.2016.2581704, in press.
3. Lingjun Pu, Xu Chen, Jingdong Xu, Xiaoming Fu, Crowd Foraging: A QoS-oriented Self-organized Mobile Crowdsourcing Framework over Opportunistic Networks, **IEEE Journal on Selected Areas in Communications (JSAC)**, Special Issue on Human-In-The-Loop Mobile Networks, 35(4): 1-15, Apr. 2017.
4. Yang Chen, Shining Wu, Jun Li, Xiaoming Fu, NCShield: Protecting Decentralized, Matrix Factorization-Based Network Coordinate Systems, **IEEE Transactions on Services Computing**, 10(2): 244-257, Mar.-Apr. 2017.
5. Lingjun Pu, Xu Chen, Jingdong Xu, Xiaoming Fu, D2D Fogging: An Energy-efficient and Incentive-aware Task Offloading Framework via Network-assisted D2D Collaboration, **IEEE Journal on Selected Areas in Communications (JSAC)**, Series on Green Communications and Networking, 34(12): 3887-3901, Nov 2016
6. Xu Chen, Lei Jiao, Wenzhong Li, Xiaoming Fu, Efficient Multi-User Computation Offloading for Mobile-Edge Cloud Computing, **IEEE/ACM Transactions on Networking**, 24(5): 2795-2808, Oct 2016
7. Lei Jiao, Jun Li, Tianyin Xu, Wei Du, Xiaoming Fu, Optimizing Cost for Online Social Networks on Geo-Distributed Clouds, **IEEE/ACM Transactions on Networking**, 24(1): 99-112, Jan. 2016.
8. Hong Huang, Jie Tang, Lu Liu, JarDer Luo, Xiaoming Fu, Triadic Closure Pattern Analysis and Prediction in Social Networks, **IEEE Transactions on Knowledge and Data Engineering**, 27(12): 3374-3389, Dec 2015.
9. Wei Du, Yongjun Liao, Narisu Tao, Pierre Geurts, Xiaoming Fu, Guy Leduc, Rating Network Paths for Locality-Aware Overlay Construction and Routing, **IEEE/ACM Transactions on Networking**, 23(5): 1661-1673, Oct 2015.
10. Wenzhong Li, Yuefei Hu, Xiaoming Fu, Sanglu Lu, Daoxu Chen, Cooperative Positioning and Tracking in Disruption Tolerant Networks, **IEEE Transactions on Parallel and Distributed Systems**, 26(2): 382-391, Feb 2015.
11. Qi Li, Xinwen Zhang, Qingji Zheng, Ravi Sandhu, Xiaoming Fu, LIVE: Lightweight Integrity Verification and Content Access Control for Named Data Networking, **IEEE Transactions on Information Forensics and Security**, 10(2): 308-320, Feb 2015.
12. Konglin Zhu, Wenzhong Li, Xiaoming Fu, SMART: A Social and Mobile Aware Routing Strategy for Disruption Tolerant Networks, **IEEE Transactions on Vehicular Technology**, 63(7): 3423-3434, Sept. 2014.
13. Hao Liu, Yaoyue Zhang, Yuezhi Zhou, Xiaoming Fu, Laurence Yang, Receiving Buffer Adaptation for High-speed Data Transfer, **IEEE Transactions on Computers**, 62(11): 2278-2291, Nov. 2013.
14. Dan Li, Hongze Zhao, Mingwei Xu, Xiaoming Fu, Revisiting the Design of Mega Data Centers: Considering Heterogeneity among Containers, **IEEE/ACM Transactions on Networking**, 22(3): 1503-1515, Oct. 2013.
15. Yang Chen, Xiao Wang, Cong Shi, Eng Keong Lua, Xiaoming Fu, Beixing Deng, Xing Li, Phoenix: A Weight-

- based Network Coordinate System Using Matrix Factorization, **IEEE Transactions on Network and Service Management**, 8(4): 334-347, Dec 2011.
16. Xiaoming Fu, Henning Schulzrinne, Hannes Tschofenig, Christian Dickmann and Dieter Hogrefe, Overhead and Performance Study of the General Internet Signaling Transport (GIST) Protocol, **IEEE/ACM Transactions on Networking**, 17(1): 158-171, Feb. 2009.
 17. Qazi Mussabbir, Wenbing Yao, Zeyun Niu and Xiaoming Fu, Optimized FMIPv6 using IEEE 802.21 MIH Services in Vehicular Networks, **IEEE Transactions on Vehicular Technology**, 56(6): 3397-3407, Nov 2007.
 18. Farshid Hassani Bijarbooneh, Wei Du, Edith Ngai, Xiaoming Fu, Jiangchuan Liu, Cloud-Assisted Data Fusion and Sensor Selection for Internet-of-Things, **IEEE Internet of Things Journal**, 3(3): 257-268, June 2016.
 19. Xiaoming Fu, Signaling in IP-based Networks: Retrospect and Prospect -- From QoS Resource Reservation to Software-Defined Networking, **IEEE Internet Computing**, 20(3): 80-88, May 2016.
 20. Deguang Le, Xiaoming Fu and Dieter Hogrefe. A Review of Mobility Support Paradigms for the Internet, **IEEE Communications Surveys and Tutorials**, 8(1): 38-51, 1st Quarter 2006.
 21. Xiaoming Fu, Henning Schulzrinne, Attila Bader, Dieter Hogrefe, Cornelia Kappler, Georgios Karagiannis, Hannes Tschofenig and Sven Van den Bosch. NSIS: a New Extensible IP Signaling Protocol Suite, **IEEE Communications Magazine**, 43(10): 133-141, Oct. 2005.
 22. Konglin Zhu, Wenzhong Li, Xiaoming Fu, Jan Nagler, How do online social networks grow? **PLoS One**, June 18, 2014.
 23. Fang-Chun Kuo and Xiaoming Fu, Probe-Aided MULTCP: An Aggregate Congestion Control Mechanism, **ACM SIGCOMM Computer Communication Review**, 38(1): 19-28, Jan 2008.
 24. Song Yang, Philipp Wieder, Ramin Yahyapour, Xiaoming Fu, Energy-Aware Provisioning in Optical Cloud Networks. **Computer Networks**, 118: 78-95, Elsevier, May 2017.
 25. Konglin Zhu, Wenzhong Li, Xiaoming Fu, Lin Zhang, Data routing strategies in opportunistic mobile social networks: Taxonomy and open challenges, **Computer Networks**, 93: 183–198, Elsevier, Dec. 2015.
 26. Haomin Yang, Yaoxue Zhang, Yuezhi Zhou, Xiaoming Fu, Hao Liu, Athanasios V. Vasilakos, Provably Secure Three-Party Authenticated Key Agreement Protocol Using Smart Cards, **Computer Networks**, 58(15): 29-38, Elsevier, Jan 2014.
 27. Xiaoming Fu, Hannes Tschofenig and Dieter Hogrefe, Beyond QoS Signaling: A New Generic IP Signaling Framework, **Computer Networks**, 50(17): 3416-3433, Elsevier, Dec. 2006.
 28. David Koll, Jun Li, Xiaoming Fu, The Good Left Undone: Advances and Challenges in Decentralizing Online Social Networks, **Computer Communications** (accepted), Elsevier, April 2017.
 29. Konglin Zhu, Wenzhong Li, Xiaoming Fu, Rethinking Routing Information in Mobile Social Networks: Location-based or Social-based?, **Computer Communications**, 42: 24-37, Elsevier, Apr. 2014.
 30. Jun Lei, Xiaoming Fu, Dieter Hogrefe, D-MORE: Dynamic Mesh-based Overlay Peer-to-Peer Infrastructure, **Computer Communications**, 33(10): 1191-1201, Elsevier, June 2010.

Selected Peer-Reviewed Conference Papers

1. Sameer G Kulkarni, Wei Zhang, Jinho Hwang, Shriram Rajagopalan, K. K. Ramakrishnan, Timothy Wood, Mayutan Arumathurai, Xiaoming Fu, NFVnice: Dynamic Backpressure and Scheduling for NFV Service Chains, **ACM SIGCOMM 2017**.
2. Fengli Xu, Zhen Tu, Yong Li, Pengyu Zhang, Xiaoming Fu, Depeng Jin, Trajectory Recovery From Ash: User Privacy Is NOT Preserved in Aggregated Mobility Data, **WWW 2017**.
3. Yang Chen, Cong Ding, Jiyao Hu, Ruichuan Chen, Pan Hui, Xiaoming Fu, Building and Analyzing a Global Co-Authorship Network Using Google Scholar Data, **WWW 2017 Companion - 4th WWW Workshop on Big Scholarly Data (BigScholar 2017)**.
4. Prasad S Abhinandan, David Koll, Jesus Omana Iglesias, Jordi Arjona Aroca, Volker Hilt and Xiaoming Fu, Optimal Resource Configuration of Complex Services in the Cloud, 17th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (IEEE/ACM **CCGrid 2017**).
5. Jiachen Chen, Mayutan Arumathurai, Xiaoming Fu, K. K. Ramakrishnan, SAID: A Control Protocol for Scalable and Adaptive Information Dissemination in ICN, **ACM ICN 2016**.
6. Lingjun Pu, Xu Chen, Jingdong Xu, Xiaoming Fu, Crowdlet: Optimal Worker Recruitment for Self-Organized Mobile Crowdsourcing, **IEEE INFOCOM 2016**.
7. Chao Wu, Xu Chen, Yuezhi Zhou, Ningyuan Lee, Xiaoming Fu, Yaoxue Zhang, Spice: Socially-Driven Learning-Based Mobile Media Prefetching, **IEEE INFOCOM 2016**.
8. Narisu Tao, Xu Chen, Xiaoming Fu, AS Path Inference: From Complex Network Perspective, **IFIP Networking 2015**.
9. David Koll, Jun Li, Xiaoming Fu, SOUP: An Online Social Network by the People, for the People, 15th ACM/IFIP/USENIX International Middleware Conference (**Middleware 2014**).
10. Mayutan Arumathurai, Jiachen Chen, Edo Monticelli, Xiaoming Fu, K. K. Ramakrishnan, Exploiting ICN for Flexible Management of Software-Defined Networks, 1st ACM Conference on Information-Centric Networking (**ICN 2014**) (best paper award)
11. Hong Huang, Jie Tang, Sen Wu, Lu Liu, Xiaoming Fu, Mining Triadic Closure Patterns in Social Networks, 23rd International World Wide Web Conference (**WWW 2014**)

12. Lei Jiao, Jun Li, Wei Du, [Xiaoming Fu](#), Multi-Objective Data Placement for Multi-Cloud Socially Aware Services, **IEEE INFOCOM 2014**.
13. Hao Liu, Yaoxue Zhang, Yuezhi Zhou, Di Zhang, [Xiaoming Fu](#), K. K. Ramakrishnan, Mining Checkins from Location-sharing Services for Client-independent IP Geolocation, **IEEE INFOCOM 2014**.
14. David Koll, Jun Li, Joshua Stein, [Xiaoming Fu](#), On the State of OSN-based Sybil Defenses, **IFIP Networking 2014**.
15. Yu Cao, Mingwei Xu, [Xiaoming Fu](#), Enhuan Dong, Explicit Multipath Congestion Control for Data Center Networks, 9th ACM Int'l Conf. on emerging Networking EXperiments and Technologies (**CoNEXT 2013**).
16. Florian Tegeler, [Xiaoming Fu](#), Giovanni Vigna and Christopher Krügel, BotFinder: Finding Bots in Network Traffic without Deep Packet Inspection, **ACM CoNEXT 2012**.
17. Yu Cao, Mingwei Xu, [Xiaoming Fu](#), Delay-based Congestion Control for Multipath TCP, **IEEE ICNP 2012**.
18. Lei Jiao, Jun Li, Tianyin Xu, [Xiaoming Fu](#), Cost Optimization for Online Social Networks on Geo-Distributed Clouds, **IEEE International Conference on Network Protocols (ICNP 2012)**.
19. Jiachen Chen, Mayutan Arumathurai, [Xiaoming Fu](#), K. K. Ramakrishnan, Coexist: Integrating Content Oriented Publish/Subscribe Systems with IP, **ACM/IEEE ANCS 2012**.
20. Jiachen Chen, Mayutan Arumathurai, [Xiaoming Fu](#), and K. K. Ramakrishnan, G-COPSS: A Content Centric Communication Infrastructure for Gaming, **IEEE ICDCS 2012**.
21. Shining Wu, Yang Chen, [Xiaoming Fu](#), Jun Li, NCSHield: Securing Decentralized, Matrix Factorization-Based Network Coordinate Systems, **IEEE/ACM IWQoS 2012**.
22. Cong Ding, Yang Chen, Tianyin Xu, [Xiaoming Fu](#), CloudGPS: A Scalable and ISP-Friendly Server Selection Scheme in Cloud Computing Environments, **IEEE/ACM IWQoS 2012**.
23. Tianyin Xu, Yang Chen, Lei Jiao, Ben Y. Zhao, Pan Hui, [Xiaoming Fu](#), Scaling Microblogging Services with Divergent Traffic Demands, **ACM/IFIP/USENIX Middleware 2011**.
24. Jiachen Chen, Mayutan Arumathurai, Lei Jiao, [Xiaoming Fu](#), K. K. Ramakrishnan, COPSS: An Efficient Content Oriented Publish/Subscribe System, **ACM/IEEE ANCS 2011**.
25. Dan Li, Mingwei Xu, Hongze Zhao, [Xiaoming Fu](#), Building Mega Data Centers from Heterogeneous Containers, **IEEE ICNP 2011**.
26. Jin Zhao, Xinya Zhang, Xin Wang, Yiaodong Deng, and [Xiaoming Fu](#), Exploiting Graphics Processors for High-performance IP Lookup in Software Routers, **IEEE INFOCOM 2011**, mini-conference.
27. Tianyin Xu, Baoliu Ye, Qinhui Wang, Wenzhong Li, Sanglu Lu, [Xiaoming Fu](#), APEX: A Personalization Framework to Improve Quality of Experience for DVD-like Functions in P2P VoD Applications, **IEEE IWQoS 2010**.
28. Jianhua He, [Xiaoming Fu](#) and Zuoying Tang, End-to-End Versus Hop-by-Hop Soft State Refresh for Multi-hop Signaling System, **IEEE ICNP 2009**.
29. [Xiaoming Fu](#), and Jon Crowcroft, GONE: an Infrastructure Overlay for Resilient, DoS-Limiting Networking, **ACM NOSSDAV 2006**.
30. [Xiaoming Fu](#), Henning Schulzrinne, Hannes Tschofenig, Christian Dickmann and Dieter Hogrefe. Overhead and Performance Study of the General Internet Signaling Transport (GIST) Protocol, **IEEE INFOCOM 2006**.
31. [Xiaoming Fu](#), Dieter Hogrefe and Sebastian Willert. Implementation and Evaluation of the Cross-Application Signaling Protocol (CASP), **IEEE ICNP 2004**.
32. [Xiaoming Fu](#), Holger Karl, Cornelia Kappler, QoS-Conditionalized Handoff for Mobile IPv6, **IFIP Networking 2002**.

Edited Conference Proceedings and Journal Special Issues

1. Xiaoming Fu, Andrea Passarella, Daniele Quercia, Alessandra Sala, Thorsten Strufe. Special Issue on "Online Social Networks". *Computer Communications*, Elsevier, 73: 163-166, 2016
2. Jun Guo, Sung Ho Cho, Xiaoming Fu, Nirwan Ansari, Hong Ji. Special Issue on "Mobile Internet: content, security and terminal". *International Journal of Communication Systems*, Wiley & Sons, 29(14), 2016
3. Xiaoming Fu, Stefano Secci, Dijiang Huang, Rittwik Jana. Feature Topic on "Mobile cloud computing", *IEEE Communications Magazine*, 53(3), 2015
4. Xiaoming Fu, Yang Chen, Guy Leduc, Laurent Mathy. Special Issue on "Measurement-based optimization of P2P networking and applications". *Computer Networks*, Elsevier, 56(3), 2012
5. Xiaoming Fu, Martin Stiemerling, Henning Schulzrinne, Special Issue on "Implications and Control of Middleboxes in the Internet", *IEEE Network*, Sept/Oct 2008.
6. Xiaoming Fu, Michael Welzl, Volker Hilt, Dieter Hogrefe, David Koll, Ruichuan Chen (eds), Proc. of 20th IEEE/ACM/GI/ITG Conference on Networked Systems (NetSys'17), Göttingen, Germany, Mar 13-16, 2017
7. Tohru Asami, Xiaoming Fu, Jeff Burke, Dario Rossi, Ioannis Psaras. Proc. of 3rd ACM Conference on Information-Centric Networking (ICN'16), Kyoto, Japan, Sept 26-28, 2016. ISBN 978-1-4503-4467-8
8. Jun Bi, Sonia Fahmy, Xiaoming Fu, Keisuke Uehara, Guang Cheng, Serge Fdida (eds.), ACM Conference on Future Internet (CFI 2016), Nanjing, China, June 15-17, 2016. ISBN 978-1-4503-4181-3
9. Xiaoming Fu, Puneet Sharma, Dijiang Huang, Deep Medhi (eds.), Proc. of IEEE 2nd International Conference on Cloud Networking (CloudNet'13), San Francisco, CA, USA, Nov. 11-13, 2013. ISBN 978-1-4799-0566-9
10. Xiaoming Fu, Volker Hilt, Tilman Wolf, Lixia Zhang, and Zhi-Li Zhang (eds.). Proc. of 21st IEEE International Conference on Network Protocols (ICNP'13), Göttingen, Oct. 7-10, 2013. ISBN 978-1-4799-1270-4

11. Xiaoming Fu, Peter Gloor, and Jie Tang (eds.). Proc. of 1st ACM International Workshop on Hot Topics on Interdisciplinary Social Networks Research (HotSocial 2012), ACM KDD 2012, Beijing, China, Aug. 2012. ISBN 978-1-4503-1549-4
12. Xiaoming Fu, Rittwik Jana, and K. K. Ramakrishnan (eds.). Proc. of 7th ACM Workshop on Mobility in the Evolving Internet Architecture (MobiArch'12), Istanbul, Turkey, Aug. 2012. ISBN 978-1-4503-1526-5
13. Xiaoming Fu and Pan Hui (eds.). Proceedings of 1st ACM International Workshop on Hot Topics of Planet-Scale Mobility Measurements (HotPlanet'09), Krakow, Poland, June 2009. ISBN 978-1-60558-689-2
14. Xiaoming Fu, Katherine Guo, Sue Moon, Ryuji Wakikawa (eds.), Proc. of 2nd ACM Workshop on Mobility in the Evolving Internet Architecture (MobiArch'06), SIGCOMM 2007, Kyoto, Japan, Aug. 2007. ISBN 978-1-59593-784-8
15. Xiaoming Fu, Katherine Guo and Jon Crowcroft (eds.). Proc. of 1st ACM/IEEE Workshop on Mobility in the Evolving Internet Architecture (MobiArch'06), San Francisco, CA, Dec 2006. ISBN 1-59593-566-5

Other Publications

1. Xiaoming Fu, Jar-Der Luo, and Margarete Boos (eds.), Social Network Analysis: Interdisciplinary Approaches and Case Studies, CRC Press, Taylor & Francis Group, Mar. 2017. ISBN 9781498736640.
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Current/Recent Collaborators (Selected)

Computer Science (Academia):

- Henning Schulzrinne, Columbia University and FCC, USA
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- Ben Y. Zhao, UCSB, USA
- Jun Li, Univ of Oregon, USA
- Jiangchuan Liu, Simon Fraser University, Canada
- Jianping Pan, University of Victoria, Canada
- Jon Crowcroft, University of Cambridge, UK
- George Pavlou, University College London, UK
- Nishanth Sastry, King's College London, UK
- Jianhua He, Aston University, UK
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- Guido Maier & Achille Pattavina, Politecnico di Milano, Italy
- Stefano Secci, UPMC, France
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- Jussi Kangasharju, Univ. Helsinki, Finland
- Edith Ngai, Uppsala Univ., Sweden
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- Matthias Wählisch, Freie Universität Berlin, Germany
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- Roy Friedman, Technion, Israel
- Toru Hasegawa, Osaka Univ, Japan
- Tohru Asami, Univ. Tokyo, Japan
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- Sue Moon, KAIST, South Korea
- Hua Wang, Victoria University, Australia
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- Dongyan Zhao, Xingong Zhang, Lei Zou & Zhong Chen, Peking Univ., China
- Wenzhong Li, Lei Xie & Sanglu Lu, Nanjing Univ, China
- Xin Wang, Jin Zhao, Yang Chen, Xiang Li & Xiangyang Xue, Fudan Univ, China
- XiangYang Li, Univ of Sci & Tech of China
- Xu Chen, Sun Yat-sen Univ, China
- Pan Hui, Hong Kong University of Science and Technology, Hong Kong
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- Luca Muscariello & Dario Rossi, Cisco, France
- Stephane Senecal, Orange Labs, France
- Ivano Guardini, Telecom Italia Lab, Italy
- Börje Ohlman, Ericsson Research, Sweden
- Hannes Tschofenig, ARM Ltd, UK/Austria

- Zhong Fan, Toshiba Research, UK
- Volker Hilt, Nokia Bell Labs, Germany
- Rüdiger Geib, Deutsche Telekom, Germany
- Dirk Kutscher, Huawei Research, Germany
- Hendrik-Jörn Günther, Volkswagen, Germany
- Florian Jomrich, Opel, Germany
- Fabian Schneider, NEC Europe Labs, Germany
- Stefan Aust, NEC Communication Systems, Ltd, Japan
- Atsushi Tagami, KDDI Labs, Japan
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