

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 2013	Vice Director, Center for Social Network Research, Tsinghua University, China
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-), Northeastern U. (2017-), Hong Kong PolyU (2015), China; Columbia U. (2008, 2009), UCLA (2009), USA; Cambridge (2005, 2007), UK; Uppsala (2014, 2015), Sweden; Sorbonne U./LIP6 (2014, 2016), France; Victoria U. (2018), Australia
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

2018	Member of Academia Europea
2017	Fellow of Institution of Engineering and Technology (IET)
2014-2015	IEEE Distinguished Lecturer (Communications Society)
2017	Best Paper Award, IEEE/ACM 9 th Workshop on Hot Topics in Planet-Scale Mobile Computing and Online Social Networking (HotPOST 2017)
2014	Best Paper Award, ACM 1 st Conference on Information-Centric Networking (ICN 2014)
2013	Best Paper Award, IEEE International Workshop on Local & Metropolitan Area Networks (LANMAN 2013)
2014	“Plan 111” Professor, Nanjing University, China (Awarded by the State Administration of Foreign Experts Affairs & the Ministry of Education, PR China)
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 Council'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> (2014-2017) 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; EU H2020 COFE project
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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-), Cyprus Research Promotion Foundation (2017)
Scientific Editorial Board	<u>Technical Editor</u> , IEEE Communications Magazine (2013-); <u>Associate Editor</u> , IEEE Networking Letters (2018-) <u>Associate Editor</u> , IEEE Transactions on Network and Service Management (2011-); <u>Editorial Board Member</u> , Chinese Journal of Electronics (2016-) <u>Area Editor</u> , Elsevier Computer Networks (2012-2015), Computer Communications (2008-); <u>Guest Editor</u> of IEEE Communications Magazine (Feature Topic on Information-Centric Networking Security, 2018; 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), Computer Communications (Special Issue on Online Social Networks, Jan. 2016), Springer World Wide Web Journal (Special Issue on Big Data Analytics and Social Computing, Aug. 2018).
Conference Organization & Tech. Program Committees	<u>General (Co-)Chair</u> of ACM ICN'16, IEEE ICNP'13, IEEE P2PNet'10; <u>TPC (Co-)Chair</u> for ERC Networking@SIGCOMM'18, IEEE HotICN'18, IEEE/ACM/VDE/GI NetSys'17, ACM CFI'16, IEEE CloudNet'13, ACM HotSocial@KDD'12, IEEE ICC'12-AIC, ICCCN'10-ISAP, GLOBECOM'09-NGNI, MobiArch'06-'07@SIGCOMM, MobiArch'12@MobiCom, HotPlanet'09@MobiSys, NVWS'09@ KiVS, DFG-JSPS Workshop on Future Networks and Mobile Sensing'15, DFG-NSFC Symposium 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, SIAM SDM, IFIP Networking, etc.; <u>Workshops Co-Chair</u> : ACM SIGCOMM'18, 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 HotICN'17, ACM HotPOST@MobiHoc'16, IEEE Global Internet Symp.'15, Social Computing Workshop'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 23 PhDs (and 9 are ongoing), 9 of which became faculty member. External PhD thesis review: U British Columbia (2018), UPMC/Sorbonne U (2016, 2018), U Oslo (2010, 2017), Waterford Inst. of Technology (2016), Telecom SudParis & UPMC (2015), Aalto U (2014, 2015), U Liège (2012), VU Brussels (2011), U Helsinki (2010), Dublin City U (2010), Tsinghua U (2010)

University Services

Since 2015	Founding Director, Sino-German Institute of Social Computing, University of Göttingen
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 2011	Steering Committee of new study program 'Master/PhD in Internet Technology and Information Systems (ITIS)', Universities of Göttingen, Hannover, Braunschweig & Clausthal
2010	Faculty Search Committee, Junior Professorship "Computer Security", University of Göttingen
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), Japan (National Institute of Informatics), and China (Tsinghua U., Peking U., Nanjing U., Fudan U.)</i>
2014 – 2016	Hosting a Humboldt Postdoc Fellow (Dr. Xu Chen, now Full Professor of computer science and vice director of State Joint Engineering Lab of Digital Home Interactions at Sun Yat-sen U.)
2011 – 2013	Hosting a Humboldt Postdoc Fellow (Dr. Wenzhong Li, now Assoc. Prof. at Nanjing U., China)

Ongoing and Supervised Doctoral Students

Candidates and thesis titles	Start	End	Further career of the candidate
Zhang, Peihua	2018	Ongoing	
Shao, Yachao	2018	Ongoing	
Zhang, Jiaquan	2017	Ongoing	
Ding, Shichang	2016	Ongoing	
de Benedetto, Jacopo	2016	Ongoing	
Malik, Ahsan (extern, Huawei Research Europe)	2016	Ongoing	
Adhatarao, Sripriya Srikant	2015	Ongoing	
Barakat, Osamah Lutf	2015	Ongoing	
Zhao, Tao	2015	Ongoing	
Zhao, Bo (co-supervise with Ramin Yahpour)	2014	Ongoing	
Tschofenig, Hannes (extern, ARM UK): IP-based Emergency Services	2009	Ongoing	Senior Research Scientist at ARM Ltd. Also: Member of Internet Architecture Board (IAB) (2010-2014)
Kulkarni, Sameer: Resource Management for Efficient, Scalable and Resilient Network Function Chains (“summa cum laude”)	2015	2018	Postdoc at NET Group, Univ Göttingen
Prasad, Abhinandan: Automated Provisioning of Fairly Priced Resources	2015	2018	Assistant Professor at National Institute of Engineering, Mysore, India
Silvestro, Alessio: Architectural Support for Implementing Service Function Chains in the Internet	2015	2018	Senior Research Scientist at Philip Morris International, Bologna, Italy
Zhang, Fei (co-supervise with Ramin Yahpour): Challenges and New Solutions for Live Migration of Virtual Machines in Cloud Computing Environments	2014	2018	Researcher at NUDT, China
Stango, Antonietta (co-supervised with Dario Farina, University Medical Center Göttingen/ Imperial College London): Increasing the Robustness of Active Upper Limb Prostheses	2013	2016	Researcher at Institute of Neuro-rehabilitation Systems, University Medical Center Göttingen
Huang, Hong: Triadic Closure and Its Influence in Social Networks. A Microscopic View of Network Structural Dynamics (‘summa cum laude’)	2012	2016	Assistant Professor of Computer Science, Huazhong University of Science and Technology, China
Xu, Ren (co-supervised with Dario Farina, University Medical Center Göttingen/Imperial College London): Short-Latency Brain-Computer Interface Using Movement-Related Cortical Potentials	2012	2016	Research Scientist at Guger Technologies, Austria
Pu, Lingjun (co-supervised with Jingdong Xu, Nankai University): On Service Design and Key Issues in 5G Edge Network Architecture	2011	2016	Assistant Professor of Computer Science, Nankai University, China
Tao, Narisu: Data Driven Network Analysis and Applications	2011	2015	Data Scientist at E.ON, Munich, Germany
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	2014	Data Scientist at Continental Co. Ltd., Hannover, Germany
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 ('summa cum laude')	2010	2014	Assistant Professor of Computer Science at University of Oregon, USA
Zhu, Konglin: Social-based Data Routing Strategies in Delay Tolerant Networks	2010	2014	Associate 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 ('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)
Arumathurai, 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	Lecturer (Assistant Professor) at Institute of Technology Carlow, Ireland
Steinleitner, Niklas: Firewall Traversal in Mobile IPv6 Networks	2006	2008	Director, Department of Information and Communications Technologies, Lower Saxony State Authority for Road Construction and Transportation, Germany
Kuo, Fang-Chun: Exploiting Network Coding in Lossy Wireless Networks	2005	2009	Research Innovation Manager, Traveling GmbH, Germany
Lei, Jun: Media Distribution Using Overlay Multicast and Peer-to-Peer Technologies ('summa cum laude')	2004	2008	Research Scientist at Nokia Solutions Networks

Other Collaborated (Post)doctoral Researchers

Name	Start	End	Further career of the researcher
Yuan, Yali	2018	Ongoing	
Yang, Song (CleanSky ITN Experienced Researcher)	2015	2017	Associate Professor, Department of Computer Science, Beijing Institute of Technology, China
Chen, Xu (Humboldt Scholar)	2014	2016	Professor, School of Data and Computer Sciences, Sun Yat-sen University, China
Stephan Sigg	2013	2015	Assistant Professor, Department of Communications and Networking, Aalto University, Finland
Li, Wenzhong (Humboldt Scholar)	2011	2013	Associate Professor, Department of Computer Science, Nanjing University, China
Xu, Tianyin (research fellow)	2010	2011	Assistant Professor, Department of Computer Science, University of Illinois at

Chen, Yang	2009 2011	Associate Professor, School of Computer Science, Fudan University, China
Lübben, Ralf	2008 2009	Professor at University of Applied Sciences Flensburg, Germany
Yang, Xiaodong	2007 2008	Associate Professor and Head, Department of Communication Technology, Zhejiang Gongshang University, China

Research Grants

Project title and funding sources	Start	End
COSAFE - Cooperative Connected Intelligent Vehicles for Safe and Efficient Road Transport, funded by EU H2020 RISE program (PI), €828K (EU) / €202K (UGOE)	2018	2022
Detection and Prevention of Data Exfiltration by Insiders in Big Data Environments, funded by Universities Australia - German DAAD Joint Research Cooperation Scheme (PI), €11K	2018	2019
ICN2020 – Advancing ICN towards real-world deployment through research, innovative applications, and global scale experimentation, funded by EU H2020 ICT EU-Japan (coordinator), €1.3M (EU)+€1.3M (JP) / €510K (UGOE)	2016	2019
SocialBD – Social Networks in Big Data, funded by Lindemann Foundation, Germany, €10K	2016	2017
DFG-NSFC Symposium on Social Computing, funded by DFG-NSFC Sino-German Center, €45K	2016	2016
DFG-JSPS Symposium on Future Network and Pervasive Computing, funded by DFG, €15K	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), €3.24M (EU) / €810K (UGOE)	2014	2018
MobileCloud – Linking Sino-European Research Institutions in Mobile Cloud Computing Era, funded by EU FP7 MC-IRSES (coordinator), €481K (EU) / €300K (UGOE)	2014	2016
GreenICN – Architecture and Applications of Green Information Centric Networking, funded by EU FP7 ICT EU-Japan (coordinator), €1.5M (EU)+€1.5M (JP) / €430K (UGOE)	2013	2016
SWZ – Simulation Research Center, funded by State Lower Saxony & Volkswagen Foundation, €50K	2013	2016
Conference: International Conference on Network Protocols (ICNP 2013), funded by DFG, €25K	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, €10K	2012	2013
Principles and Design of Next-Generation Internet Media Streaming (w/ Fudan University), funded by DAAD/CSC PPP-China, €27K	2011	2013
DFG-NSFC Symposium on Internet of Things, funded by DFG-NSFC Sino-German Center, €34K	2010	2010
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, €16K	2008	2009
ADVMM – Advanced Mobility Management in 4G Networks, funded by Huawei Research, €80K	2007	2008
MING-T – Multistandard integrated network convergence for global mobile and broadcast technologies, funded by EU FP6 IST STREP, €1.7M (EU) / €201K (UGOE)	2007	2009
ENABLE – Enabling Efficient and Operational Mobility in Large Heterogeneous IP Networks, funded by EU FP6 IST STREP, €2.45M (EU) / €420K (UGOE)	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, Co-PI, €13.8M / €200K (UGOE)	2006	2008

PTLS - Performance Study of Transport Layer Security, funded by Siemens Research, €20K	2005	2006
VIDIOS – Video Distribution over MPLS Networks supporting heterogeneous format environments, funded by EU FP6 Eureka Celtic and Deutsche Telecom (PI), €3.7M / €274K (UGOE)	2005	2006
MobiAuth – QoS and Authentication Issues in IP Mobility, funded by Panasonic Princeton Lab, USA (PI), \$15K	2003	2004

Teaching (<https://wiki.net.informatik.uni-goettingen.de/wiki/Teaching>)

- Winter Semester 2018/19: Computer Networks (BSc), Seminar Advanced Topics in Mobile Communications (MSc/PhD), Seminar on Internet Technologies (BSc/MSc)
- Summer Semester 2018: Advanced Practical Course Data Science (MSc), Practical Course Networking Lab (BSc), Advanced Computer Networks (MSc)
- Winter Semester 2017/18: Computer Networks (BSc), Practical Course: Data Science (MSc/PhD/BSc), Practical Course Networking Lab (BSc), Seminar on Internet Technologies (BSc/MSc)
- Summer Semester 2017: Advanced Practical Course Data Science (MSc/BSc), Seminar on Internet Technologies (Summer 2017) (MSc), Advanced Computer Networks (MSc), Practical Course Networking Lab (BSc)
- Winter Semester 2016/17: Practical Course Networking Lab (BSc), Computer Networks (BSc), Practical Course on Data Science for Computer Networks (MSc), Seminar on Internet Technologies (BSc/MSc)
- Summer Semester 2016: Practical Course Networking Lab (BSc), Practical Course Advanced Networking: Data Science Edition (MSc), Advanced Topics in Social Network in Mobile Big Data (MSc), Seminar on Internet Technologies (BSc/MSc), Advanced Computer Networks (MSc)
- Winter Semester 2015/16: Practical Course Networking Lab (BSc), Practical Course Advanced Networking (MSc), Advanced Topics in Mobile Communications (AToMIC) (MSc), Seminar on Internet Technologies (BSc/MSc), Advanced Computer Networks (MSc), Machine Learning and Pervasive Computing (MSc)
- Summer Semester 2015: Practical Course Networking Lab (BSc), Practical Course Advanced Networking (MSc), Advanced Topics in Mobile Communications (AToMIC) (MSc), Seminar on Internet Technologies (BSc/MSc), Advanced Computer Networks (MSc), Machine Learning and Pervasive Computing (MSc)
- Winter Semester 2014/15: Advanced Topics in Computer Networking (MSc), Practical Course Networking Lab (BSc), Practical Course Advanced Networking (MSc), Seminar on Internet Technologies (BSc/MSc), Computer Networks (BSc), Machine Learning and Pervasive Computing (MSc)
- Summer Semester 2014: Advanced Topics in Social Network and Big Data Methods (MSc), Advances in Mobile Applications and Mobile Cloud Computing (MSc), Practical Course Networking Lab (BSc), Practical Course Advanced Networking (MSc), Seminar on Internet Technologies (BSc/MSc), Advanced Computer Networks (MSc)
- Winter Semester 2013/14: Advanced Topics in Computer Networking (MSc), Practical Course Networking Lab (BSc), Practical Course Advanced Networking (MSc), Seminar on Internet Technologies (BSc/MSc), Computer Networks (BSc), Selected Topics in Pervasive Computing (MSc)
- Summer Semester 2013: Advanced Topics in Mobile Communications (AToMIC) (MSc), Practical Course Networking Lab (BSc), Practical Course Advanced Networking (MSc), Seminar on Internet Technologies (BSc/MSc), Computer Networks (BSc), Advanced Computer Networks (MSc)
- Winter Semester 2012/13: Advanced Topics in Computer Networking (MSc), Practical Course Networking Lab (BSc), Practical Course Advanced Networking (MSc), Seminar on Internet Technologies (BSc/MSc), Computer Networks (BSc), Social Networks Seminar (MSc)
- Summer Semester 2012: Advanced Topics in Mobile Communications (AToMIC) (MSc), Practical Course Networking Lab (BSc), Practical Course Advanced Networking (MSc), Seminar on Internet Technologies (BSc/MSc), Computer Networks (BSc), Advanced Computer Networks (MSc)
- Winter Semester 2011/12: Advanced Topics in Computer Networking (MSc), Practical Course Networking Lab (BSc), Practical Course Advanced Networking (MSc), Seminar on Internet Technologies (BSc/MSc), Computer Networks (BSc), Social Networks Colloquium (BSc/MSc)
- Summer semester 2011: Advanced Topics in Mobile Communications (AToMIC) (MSc), Practical Course Networking Lab (BSc), Practical Course Advanced Networking (MSc), Seminar on Internet Technologies (BSc/MSc), Computer Networks (BSc)
- Winter Semester 2010/11: Advanced Topics in Computer Networking (MSc), Practical Course Networking Lab (BSc), Practical Course Advanced Networking (MSc), Seminar on Internet Technologies (BSc/MSc), Computer Networks (previously Telematik) (BSc), Seminar on Mathematical Models (MSc/PhD)
- Summer semester 2010: Seminar Advanced Topics in Mobile Communications, Seminar Internet Technologies; Practical Course Networking Lab.
- Winter semester 2009/10: seminars [Internet Technologies](#) and [Advanced Topics in Computer Networking, Practical Course Networking Lab](#), and lecture [Computer Networks](#).
- Summer semester 2009: Seminar Advanced Topics in Mobile Communications, Seminar on Internet Technologies; Practical Course Networking Lab.

- Winter semester 2009/10: seminars [Internet Technologies](#) and [Advanced Topics in Computer Networking](#), Practical Course Networking Lab, and lecture [Computer Networks](#).
- Summer semester 2009: Seminar Advanced Topics in Mobile Communications, Seminar on Internet Technologies; Practical Course Networking Lab (based on Prof. Jorg Liebeherr and Prof. Magda El Zarki's book "Mastering Networks: An Internet Lab Manual).
- Winter semester 2008/09: [Praktikum-Advanced Networking](#), seminars [Internet Technologies](#), [Advanced Topics in Computer Networking](#), and lectures [Computer Networks](#).
- Summer semester 2008: [Praktikum-Telematik](#), seminars [Internet Technologies - Selected Topics on Multimedia and Peer-to-Peer Networking](#), [Advanced Topics in Mobile Communications](#), and lecture "[Mobile Communications II](#)".
- Winter semester 2007/08: practical course "[Practical Course on Computer Networks](#)", lecture [Computer Networks](#) and seminar [Advanced Topics in Computer Networking](#).
- Summer semester 2007: practical course "[Practical Course on Computer Networks](#)", seminars [Advanced Topics in Computer Networking](#) and [Digital Video Broadcasting \(DVB\)](#).
- Winter semester 2006/07: practical course "[Praktikum-Telematik](#)", lecture [Computer Networks](#) and seminar [Advanced Topics in Mobile Communications](#).
- Summer semester 2006: Seminar [Advanced Topics in Internet Research](#) and practical course "[Praktikum-Telematik](#)".
- Winter semester 2005/06: Seminar [Advanced Topics in Mobile Communications](#), Lecture [Computer Networks](#), practical course "[Praktikum-Telematik](#)".
- Summer semester 2005: Seminar [Advanced Topics in Computer Networking](#) and practical course "[Praktikum-Telematik](#)".
- Winter semester 2004/05: Lecture [Computer Networks](#) and practical course "[Praktikum-Telematik](#)".
- Summer semester 2004: Seminar [Advanced Topics in Mobile Communications](#).
- Winter semester 2003/2004: Lecture [Telematik \(Computer Networks\)](#).
- Summer semester 2003: Lecture [Informatik II \(Computer Science-II\)](#).
- Winter semester 2002/2003: Lecture [Telematik \(Computer Networks\)](#).

Journal Publications (Selected)

1. 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, June 2016 (in press).
2. Shuai Yu, Rami Langar, [Xiaoming Fu](#), Li Wang, Zhu Han, Computation Offloading with Data Caching Enhancement for Mobile Edge Computing, **IEEE Transactions on Vehicular Technology**, 67(11): 11098-11112, Nov. 2018.
3. Xu Chen, Wenzhong Li, Sanglu Lu, Zhi Zhou, [Xiaoming Fu](#), Efficient Resource Allocation for On-Demand Mobile-Edge Cloud Computing, **IEEE Transactions on Vehicular Technology**, 67(9): 8769-8780, Sept 2018.
4. Hong Huang, Yuxiao Dong, Jie Tang, Hongxia Yang, Nitesh V. Chawla, [Xiaoming Fu](#), Will Triadic Closure Strengthen Ties in Social Networks? **ACM Transactions on Knowledge Discovery from Data**, 12(3), Article No. 30, Jan. 2018.
5. 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**, 28(10): 2965-2978, Oct. 2017.
6. 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.
7. 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.
8. 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 & Networking, 34(12): 3887-3901, Nov. 2016
9. 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
10. 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.
11. 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.
12. 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.
13. 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.

14. 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.
15. 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.
16. Hao Liu, Yaoxue 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.
17. 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.
18. 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.
19. [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.
20. 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.
21. Sripriya Srikant Adhatarao, Mayutan Arumathurai, Dirk Kutscher, [Xiaoming Fu](#), ISI: Integrate Sensor Networks to Internet with ICN, **IEEE Internet of Things Journal**, 5(2): 491-499, Apr 2018
22. 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.
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Current/Recent Collaborators (Selected)

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- Henning Schulzrinne, Columbia University and FCC, USA
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