Mehmet Şükrü Kuran, Ph.D.

RESEARCH INTERESTS

Wireless Networks and Communications, ML/AI Techniques in Optimizing Wi-Fi Networks, QoS/QoE in Computer Networks, Queuing Theory & Active Queue Management (bufferbloat), Congestion control & Transport layer algorithms, Natural Language Processing, Molecular Communications & Nanonetworking, Network Security, Intrusion Detection Systems

TEACHING INTERESTS

Broadband Wireless Networks, Introduction to Programming, Object Oriented Programming, Mobile Programming, Embedded Network Programming, Principles of Programming Languages, Data Structures & Algorithms, Molecular Communication & Nanonetworking, Computer Networks, Software Engineering, Architectures of Internet, Video Game Programming, Game Design,

EDUCATIONAL BACKGROUND

(2007- 2012)   **Boğaziçi University, Istanbul**
PhD in Computer Engineering   December 2012
Advisor: Assoc. Prof. Tuna Tuğcu

(2004-2007)   **Boğaziçi University, Istanbul**
MS in System and Control Engineering   June 2007
Advisor: Assoc. Prof. Tuna Tuğcu

(1999-2004)   **Yıldız Technical University, Istanbul**
BS in Computer Engineering   July 2004

TEACHING EXPERIENCE

(2019 - 2022)   **Assistant Professor,**
Department of Computer Engineering
Bahcesehir University, Istanbul, TURKEY
- CMP 1001 – Introduction to Programming (C++ Prog. Language) (3 semesters)
- CMP 1002 – Object Oriented Programing (C++ Prog. Language) (3 semesters)
- CMP 4323 – Wireless and Mobile Networks (3 semesters)
- CMP 4508 – Performance Evaluation of Computer Networks (1 semester)
- GEP 0629 – Digital Games and Simulation of History (1 semester)

(2006-2012)   **Graduate Research Assistant, Computer Networks Research Laboratory,**
Department of Computer Engineering
Boğaziçi University, Istanbul, TURKEY
- CMPE 150 – Introduction to Computing (C Prog. Language) (6 semesters)
- CMPE 59G – Special topics: Nanonetworking
- CMPE 591 – Special topics: Broadband Wireless Networks (2 semesters)

(2015 - 2018)   **Assistant Professor,**
Department of Computer Engineering
Abdullah Gul University, Kayseri, TURKEY
- COMP 101 – Art of Computing (SNAP and Java Prog. Languages) (6 semesters)
- COMP 104 – Exploring Computer Engineering (Prog. Languages part)

- COMP 205 – Mobile Programming (3 semesters)
- COMP 202 – Software Engineering (2 semesters)
- COMP 308 – Computer Networks
- ECE 510 – Architectures of Current and Future Internet (2 semesters)
- ARCD 301 – Playing with The Past (4 semesters)

(2015 - …) **Part-time Lecturer,**
Department of Computer Engineering
Bogazici University, Istanbul, TURKEY
- CMPE 58B – Special topics: Future Internet Opportunities (3 semesters)
- SWE 589 – Mobile Programming (1 semester)

(2016) **Visiting Lecturer,**
Department of Computer Engineering
University of Helsinki, Helsinki, FINLAND
- 582764 – A Comparison of Current & Future Internet Architectures

RESEARCH EXPERIENCE

(2022 - …) **Staff Research Engineer/Achitect,**
Research Department,
AirTies Wireless Communication, Istanbul, TURKEY
- Wireless LAN (IEEE 802.11x) technologies
- ML/AI Techniques in Optimizing Wi-Fi Networks
- Traffic Classification & QoS in Real-time Applications
- QoS/QoE in Wi-Fi Networks
- Wireless Mesh Networks

(2019 - 2022) **Assistant Professor,**
Department of Computer Engineering,
Bahcesehir University, Istanbul, TURKEY
- Wireless LAN (IEEE 802.11x) technologies
- Wireless Mesh Networks
- Molecular communication systems
- Network security – intrusion detection systems

(2019 - 2022) **Senior Research Consultant,**
Research Department,
AirTies Wireless Communication, Istanbul, TURKEY
- Wireless LAN (IEEE 802.11x) technologies
- Wireless Mesh Networks

(2018 - 2019) **Senior Research Engineer,**
Research Department,
AirTies Wireless Communication, Istanbul, TURKEY
- Wireless LAN (IEEE 802.11x) technologies
- Wireless Mesh Networks

(2015 - 2018) **Assistant Professor,**
Department of Computer Engineering,
Abdullah Gul University, Kayseri, TURKEY

- Information-centric networking
- Molecular communication systems
- Network security – intrusion detection systems

(2014-2015) **Post-doc Researcher, Computer Networks Research Laboratory (NETLAB),**
Department of Computer Engineering,
Boğaziçi University, Istanbul, TURKEY
- Signal shaping in Molecular communication systems
- Routing in Information-centric Networkings

(2013-2014) **Post-doc Researcher, LINCS (Laboratory of Information, Networking and Communication Sciences),**
Telecom ParisTech, Paris, FRANCE
- Charging scheduling of Electric Vehicles in Smart Grid
- Vehicular Ad Hoc Networks

(2013-2013) **Researcher,**
PROVUS Bilişim, Istanbul, TURKEY
- RF systems, Internet of Things

(2010-2010) **Visiting PhD Student, N3CAT (NanoNetworking Center in Catalunya),**
Universitat Politècnica de Catalunya, Barcelona, SPAIN
- Modulation systems for diffusion-based molecular communication system

(2007-2012) **PhD Student, Computer Networks Research Laboratory (NETLAB),**
Department of Computer Engineering,
Boğaziçi University, Istanbul, TURKEY
- Design of Molecular communication systems, diffusion-based communication and calcium signaling
- Energy modeling and physical layer issues in diffusion-based molecular communication (i.e., Interference and modulation analysis)
- Telecommunications Research Center (TAM project, funded by the State Planning Organization of Turkey - DPT)
- Calcium Signaling project (funded by the Boğaziçi University Research Fund BOUN BAP)

(2004-2007) **MS Student, Computer Networks Research Laboratory (NETLAB),**
Department of Computer Engineering,
Boğaziçi University, Istanbul, TURKEY
- Design of scheduling and routing solutions for the Mesh mode of IEEE 802.16 standard (WiMAX)
- Simulation design for Mesh mode of IEEE 802.16 standard
- Next generation broadband wireless systems (funded by the Scientific and Technical Research Council of Turkey, TUBITAK)

ADMINISTRATIVE EXPERIENCE

- Member of University Education Committee, Abdullah Gul University, 2017
- Planning and Organization of Undergraduate and Graduate Courses and Other Educational Activities, Rectorate of Abdullah Gul University, 2016 – 2017.
- Management of Social Activities of Student Clubs and Societies, Deanship of Student Affairs of

Abdullah Gul University, 2015 – 2017.

- Curriculum Committee of Computer Engineering Department, Abdullah Gul University, 2015 – 2017.
- Advisor of Gaming Club of Abdullah Gul University, Deanship of Student Affairs of Abdullah Gul University, 2015 – 2017.
- Advisor of Computer Society of Abdullah Gul University, Deanship of Student Affairs of Abdullah Gul University, 2017.

PUBLICATIONS
Journal Papers:

1. (Accepted) **(Q2)** M. S. Kuran, O. K. Koksal, M. Kılıç, D. Ece Susuz, A. U. İlter, G. E. Nehas, and S. Öztürk, "MDU-CACS: A Coordinated Forecasting-based Cloud-assisted Dynamic Channel Assignment Mechanism for Wi-Fi Network Clusters", submitted to IEEE Transactions on Network and Service Management.
2. **(Q1)** F. Canbal, Y. B. Ozgun, M. S. Kuran, G. Venkatesan, and N. Canpolat, "Wi-Fi QoS Management Program: Bridging the QoS Gap of Multimedia Traffic in Wi-Fi Networks", IEEE Communications Magazine, DOI: 10.1109/MCOM.003.2300264. 2023.
3. **(Q4)** A. Karakoc, H. Birkan Yilmaz, and M. S. Kuran, "More WiFi for Everyone: Increasing Spectral Efficiency in WiFi6 Networks using a Distributed OBSS/PD Mechanism," Turkish Journal of Electrical Engineering and Computer Sciences, vol. 31, no. 3, pp. 660 – 677, 2023.
4. **(Q2)** H. Ozkan, R. Temelli, A. K. Ipekoren, F. Canbal, B. D. Karahan, M. S. Kuran, and O. Gurbuz, "Multimedia Traffic Classification with Mixture of Markov Components", Elsevier Ad Hoc Networks, vol. 121, pp. 102608, 2021.
5. **(Q1)** M. S. Kuran, H. Birkan Yilmaz, Ilker, Demirkol, Nariman Farsad, and Andrea Goldsmith, "A Survey on Modulation Techniques in Molecular Communication via Diffusion", IEEE Surveys & Tutorials, vol. 23, pp. 7- 28, 2021.
6. **(Q2)** M. Turan, B. C. Akdeniz, M. S. Kuran, H. B. Yilmaz, İ. Demirkol, A. E. Pusane, and T. Tugcu, "Transmitter Localization in Vessel-like Diffusive Channels using Ring-shaped Moleculer Receivers," IEEE Communication Letters, Early Access, September 2018.
7. (N/A) H. Birkan Yilmaz, M. S. Kuran, and S. Eryigit, "Service Class Differentiation in Scheduling of Electrical Vehicle Recharging," Telecommunications Review, vol. 25, no. 4, pp. 592 – 604, 2015.
8. **(Q2)** B. Tepekule, A. E. Pusane, M. S. Kuran, and T. Tugcu, "A Novel Pre-Equalization Method for Molecular Communication via Diffusion in Nanonetworks," IEEE Communications Letters, vol. 19, no. 8, pp. 1311 – 1314, 2015.
9. (N/A) A. Onen and M. S. Kuran, "Current and Future Electrical Grids," (in Turkish), Tubitak Bilim ve Teknik, no. 371, pp. 84 – 87, June 2015.
10. **(Q1)** M. S. Kuran, A. C. Viana, L. Iannone, D. Kofman, G. Mermoud, and J. P. Vasseur, "A Smart Parking Lot Management System for Scheduling the Recharging of Electric Vehicles," IEEE Transactions on Smart Grid, vol. 6, no. 6, pp. 2942 – 2953, November 2015.
11. **(Q1)** M. S. Kuran, T. Tugcu, B. Ozerman, "Calcium Signaling: Overview and Research Directions of a Molecular Communication Paradigm," IEEE Wireless Communications Magazine, vol. 19, no. 5, pp. 20 – 27, October 2012.
12. **(Q2)** M. S. Kuran, H. B. Yilmaz, T. Tugcu, I. F. Akyildiz, "Interference Effects on Modulation Techniques in Diffusion Based Nanonetworks," Elsevier Nano Communication Networks, vol. 3, no. 1, pp. 65-73, March 2012.
13. **(Q2)** M. S. Kuran, H. B. Yilmaz, T. Tugcu, and B. Ozerman, "Energy Model for Communication via Diffusion in Nanonetworks," Elsevier Nano Communication Networks, vol. 1, no. 2, pp. 86-95, July 2010.
14. **(Q1)** M. S. Kuran, G. Gur, T. Tugcu, and F. Alagoz, "Applications of Cross-Layer Paradigm for Improving the Performance of WiMAX," IEEE Wireless Communications Magazine, vol. 17, no. 3,

pp. 86-95, June 2010.

15. **(Q1)** M. S. Kuran and T. Tugcu, "A Survey on Emerging Broadband Wireless Access Technologies," Elsevier Computer Networks, vol. 51, no. 11, pp. 3013-3046, August 2007.

Book Chapters:

1. A. E. Tozoğlu and M. S. Kuran, "What if You are a Medieval Monarch?": A Crusader Kings III Experience to Learn Medieval History", Book chapter in "Teaching the Middle Ages through Modern Games", R. Houghton (Eds.) Berlin, Boston: De Gruyter Oldenbourg. pp. 87-110, 2022.

2. M. S. Kuran, "Journey of Next Generation Boardgames and Eurogames in Turkey", (in Turkish) Book chapter in "Game Studies from Turkey and in Turkey", E. Süngü, B. Bostan (Eds.) Nobel. 2020.

3. H. B. Yilmaz, M. S. Kuran, and İ. Demirkol, "Modulation in Molecular Signaling," Book chapter in Encyclopedia of Wireless Networks, Springer-Nature, 2018

4. B. Acar, A. Akkaya, G. Genc, H. B. Yilmaz, M. S. Kuran, and T. Tugcu, "Understanding Communication via Diffusion: Simulation Design and Intricacies," Book chapter in Modeling, Methodologies, and Tools for Molecular and Nano-scale Communications J. Suzuki, T. Nakano, M. J. Moore (Eds.) Springer. 2017

5. M. S. Kuran, F. Alagoz, T. Tugcu. "MAC Layers of WMAN Technologies," Book chapter in Wireless Metropolitan Area Networks: WiMAX and Beyond. Y. Zhang and H.-W. Chen (Eds.) Auerbach Publications, CRC Press. 2006

Conference Papers:

1. M. S. Kuran, O. K. Koksal, M. Kılıç, A. U. İlter, G. E. Nehas, and S. Öztürk, "Forecasting-based Cloud-assisted Dynamic Channel Assignment Mechanism for Mesh WiFi Networks", 18th International Conference on Network and Service Management, Thessaloniki, Greece, October 2022.

2. M. S. Kuran, A. Dilmac, O. Topal, B. Yamansavascilar, S. Avallone, and T. Tugcu, "Throughput-maximizing OFDMA Scheduler for IEEE 802.11ax Networks," IEEE International Conference on Personal, Indoor and Mobile Radio Communications (PIMRC '20), London, United Kingdom, August 2020.

3. R. D. Aksoy, H. Birkan Yilmaz, M. S. Kuran, A. Wipat, A. E. Pusane, G. Misirli, and T. Tugcu, "Receiver Design using Genetic Circuits in Molecular Communication," Workshop on Molecular Communications, (MolCom '19), Linz, Austria, April 2019.

4. M. Turan, M. S. Kuran, H. B. Yilmaz, İ. Demirkol, and T. Tugcu, "Channel Model of Molecular Communication via Diffusion in a Vessel-like Environment Considering a Partially Covering Receiver," IEEE International Black Sea Conference on Communications and Networking (BlackSeaCom '18), Batumi, Georgia, June 2018.

5. M. S. Kuran, A. E. Tozoğlu, and C. Tavernari, "History-Themed Games in History Education: Experiences on a Blended World History Course," International Conference on Information Technology Based Higher Education and Training (ITHET ' 18), Algarve, Portugal, April 2018.

6. M. S. Kuran, J. M. Pedersen, N. van Hattum-Janssen, and J. Sole Pareta, "Opportunities and Challenges in Designing a Blended International Student Project Activity: Experiences from the EPIC Project," International Conference on Information Technology Based Higher Education and Training (ITHET '18), Algarve, Portugal, April 2018.

7. M. Turan, M. S. Kuran, H. B. Yilmaz, C-B. Chae, and T. Tugcu, "MOL-Eye: A New Metric for the Performance Evaluation of a Molecular Signal," IEEE Wireless Communications and Networking Conference (WCNC '18), Barcelona, Spain, April 2018.

8. M. S. Kuran, J. M. Pedersen, and R. Elsner, "Learning Management Systems on Blended Learning Courses: An Experience-based Observation", International Conference on Image Processing and Communications, 9th (IPC '17).

9. J. M. Pedersen and M. S. Kuran, "Moodle: Practical Advices for University Teachers", International

Conference on Image Processing and Communications, 9th (IPC '17).

10. J. M. Pedersen, M. S. Kuran, J. Frick, and L. Mank, "Colibri: An International Blended Learning Experience based on Real-World Problems," International Symposium on Project Approaches in Engineering Education (PAEE) – Active Learning in Engineering Education Workshop (ALE) '16, Guiaraes, Portugal, 2016.

11. M. S. Kuran, A. C. Viana, L. Iannone, D. Kofman, G. Mermoud, and J. P. Vasseur, "Smart Cities Recharged: Improving Electrical Vehicles Recharging by Routine-Aware Scheduling," International Workshop on Smart City and Ubiquitous Computing Applications (SCUCA '14) in conjunction with IEEE International Conference on Wireless and Mobile Computing, Networking, and Communications, Larnaca, Cyprus, 2014.

12. F. N. Kilicli, M. T. Ozsahin, H. B. Yilmaz, M. S. Kuran, T. Tugcu, "Models for Communication via Diffusion Communication in Nanonetworks," (in Turkish) Conference on Academic Information (Akademik Bilisim 2013), Antalya, Turkey, January 2013.

13. M. S. Kuran, H. B. Yilmaz, T. Tugcu, "A Tunnel-based Approach for Signal Shaping in Molecular Communication," IEEE International Workshop on Molecular and Nano-scale Communications (MONACOM '13) in conjunction with IEEE ICC, Budapest, Hungary, 2013

14. A. C. Heren, M. S. Kuran, H. B. Yilmaz, T. Tugcu, "Channel Capacity of Calcium Signaling Based on Inter-cellular Calcium Waves in Astrocytes," IEEE International Workshop on Molecular and Nano-scale Communications (MONACOM '13) in conjunction with IEEE ICC, Budapest, Hungary, 2013

15. M. S. Kuran, T. Tugcu, "Co-channel Interference for Communication via Diffusion System in Molecular Communication," 6th International ICST Conference on Bio-Inspired Models of Network, Information, and Computing Systems (BIONETICS), York, United Kingdom, December 2011.

16. M. S. Kuran, H. B. Yilmaz, T. Tugcu, I. F. Akyildiz, "Modulation Techniques for Communication via Diffusion in Nanonetworks," IEEE International Conference on Communications (ICC '11), Kyoto, Japan, June 2011.

17. M. S. Kuran, H. B. Yilmaz, T. Tugcu "Effects of Routing for Communication via Diffusion System in the Multi-node Environment," IEEE International Workshop on Molecular and Nano-scale Communications (MONACOM '11) in conjunction with IEEE INFOCOM, Shanghai, China, April 2011.

18. M. S. Kuran, T. Tugcu, "Nanonetworks and Molecular Communication Techniques," (in Turkish) Conference on Academic Information (Akademik Bilisim 2011), Malatya, Turkey, February 2011.

19. M. I. Ulutas, M. S. Kuran, T. Tugcu "Hybrid Frame Structure for Improving Network Throughput in WiMAX Mesh Networks" 5th International Conference on Broadband and Biomedical Communications (IB2COM), Malaga, Spain, December 2010.

20. M. S. Kuran, G. Gur, T. Tugcu, and F. Alagoz, "Cross-Layer Routing-Scheduling in IEEE 802.16 Mesh Networks," International Conference on MOBILe Wireless MiddleWARE, Operating Systems, and Applications (Mobilware'08), Innsbruck, Austria, Feb 2008.

21. M. S. Kuran, H. B. Yilmaz, F. Alagoz, and T. Tugcu, "Quality of Service in Mesh Mode IEEE 802.16 Networks," 14th International Conference on Software, Telecommunications and Computer Networks (SoftCOM '06), Split-Dubrovnik, Croatia, 2006.

22. M. S. Kuran, T. Tugcu, "Performance Analysis of Congestion Control Techniques in Next Generation Satellite Networks," (in Turkish) GAP Engineering Congress, Sanliurfa, Turkey, April 2005.

PROJECTS

1. (Completed), "MU MAC Çerçevesi Destekli Wi-Fi 6 Çift Bantlı Kablosuz Erişim Noktası", Tübitak 1503 Project, Industry Supervisor, AirTies Wireless Networks, 2019 – 2020.

2. (Completed), "Bulut Teknolojileri ile Ağ Erişim Noktalarının Kanal Seçimlerini En İyileyecek Dünyada Yenilikçi Bir Yazılım Çözümü (Araç) Geliştirilmesi", Tübitak 1511 Project, Industry Supervisor, AirTies Wireless Networks, 2018 – 2020.

3. (Completed), "Çoklu Erişim Noktaları Ağlarında (MultiAP Network) Yenilikçi Yazılım Tanımlı Ağ Yapısının Geliştirilmesi", Tübitak 1511 Project, Industry Researcher, AirTies Wireless Networks, 2018 – 2020.

4. (Completed), "EPIC: Improving Employability through Internationalization and Collaboration", Erasmus+ EU Project, Researcher & Lecturer, in conjunction with Aalborg University – Denmark, Stiching Saxion – Netherlands, Technical University of Hamburg – Germany, UPC – Spain, UTP – Poland, University of Stavanger – Norway, Riga Technical University – Latvia, Abdullah Gul University – Turkey, 2017 – 2020.

5. (Completed), "COLIBRI: Collaboration and Innovation for Better, Personalized and IT-Supported Teaching", Erasmus+ EU Project, Researcher & Lecturer, in conjunction with Aalborg University – Denmark, Technical University of Hamburg – Germany, UPC – Spain, UTP – Poland, University of Stavanger – Norway, Riga Technical University – Latvia, Bogazici University – Turkey, 2014 – 2017.

6. (Completed), "Örüntü Tanıma ve Analiz Yöntemleri ile Hizmet Kalitesinin Arttırılmasına Yönelik Anormallik Tespit Uygulaması Geliştirilmesi", Tübitak 1501 Project, Academic Advisor, in conjunction with Turk.NET and Bogazici University, 2015 – 2017.

7. (Completed), "Abdullah Gul University Teaching Quality Assurance Applications Infrastructure", Abdullah Gul University BAP Project, Coordinator, In conjunction with SK Technology, Bogazici University, 2015 – 2017.

8. (Completed), "Molecular Communications Approach to Nanonetworking", Bogazici University BAP Project, Researcher, Bogazici University, 2012 – 2013.

9. (Completed), "MoleCom: Molecular Communications in Nano-Communication Networks", Tübitak 1001 Project, Researcher, Bogazici University, 2011 – 2013.

10. (Completed), "Gelecek Kuşak Telsiz Sistemleri: Mimari, Sınama Ortamı, Konum Bilgisi ve Kaynak Yönetimi", Tübitak 1001 Project, Researcher, Bogazici University, 2005 – 2009.

PATENTS

1. (Patent Published) "Dynamic Channel Capability", USPTO, Pub. number: WO 2024/038381A1, 2024
2. (Patent Published) "Dynamic Coordinated Channel Allocation System for Clusters of Wireless Networks", USPTO, Pub. Number: WO 2024/079659 Al, 2024
3. (Applied) "Markov Bileşenlerinin Kullanıldığı Bir Multimedya Trafik Sınıflandırma Yöntemi Ve Onu Uygulayan Sistem", Turkish Patent and Trademark Office, Patent No: 2022/011407, 2022.
4. (Applied) "Multimedia Traffic Classification Method Using Markov Components And System Implementing the Same", U.S. Patent office, US 17/864,444 , 2021.
5. (Patent Published) "System and Method for OFDMA Scheduling in Wireless Networks", U.S. Patent office, PCT/IB2021/056522, 2021

PRESENTATIONS

1. "COLIBRI: A Blended Learning Experience on Future Internet Opportunities", Presentation in

Bogazici University, Istanbul, Turkey, December 2016.
2. "COLIBRI: A Blended Learning Experience on Future Internet Opportunities", Presentation in Gebze Technical University, Istanbul, Turkey, November 2016.
3. "History of Internet", in Conjunction with ISMAIL 2015 Workshop in Bogazici University, Istanbul, Turkey, August 2015.
4. "History of Internet", Presentation in Riga Technical University, Riga, Latvia, July 2015.
5. "Introduction to Information-Centric Networking", Presentation in Bogazici University, Istanbul, Turkey, November 2014.
6. "Smart Cities Recharged: Improving Electrical Vehicles Recharging by Routine-Aware Scheduling," International Workshop on Smart City and Ubiquitous Computing Applications (SCUCA '14) in conjunction with IEEE International Conference on Wireless and Mobile Computing, Networking, and Communications, Larnaca, Cyprus, 2014.
7. "Improving EV Recharging by Routine-Aware Scheduling", Presentation in Abdullah Gul University, Kayseri, Turkey, April 2014.
8. "Overview and Research Directions for Calcium Signaling", Presentation in 3rd NaNoNetworking Summit 2012, Universitat Politecnica de Catalunya, Barcelona, Spain, June 2012.
9. "Nanonetworks and Molecular Communication", Seminar in University of Pavia, Pavia, Italy, September 2011. (Invited Speaker)
10. "Co-channel Interference for Communication via Diffusion System in Molecular Communication," 6th International ICST Conference on Bio-Inspired Models of Network, Information, and Computing Systems (BIONETICS), York, United Kingdom, December 2011.
11. "Modulation Techniques for Communication via Diffusion in Nanonetworks," IEEE International Conference on Communications (ICC '11), Kyoto, Japan, June 2011.
12. "Effects of Routing for Communication via Diffusion System in the Multi-node Environment," IEEE International Workshop on Molecular and Nano-scale Communications (MONACOM '11) in conjunction with IEEE INFOCOM, Shanghai, China, April 2011.
13. "Cross-Layer Routing-Scheduling in IEEE 802.16 Mesh Networks," International Conference on MOBILe Wireless MiddleWARE, Operating Systems, and Applications (Mobilware'08), Innsbruck, Austria, February 2008.

TECHNICAL ACTIVITIES

- Workshop Chair, "Applications, Testbeds, and Simulation Design for Molecular Communication (ATSDMC '20), part of Bio-inspired Information and Communication Technologies (BICT '10) Conference.
- Conference Scientific Committee in "6th International Conference on Managing Intellectual Property in Universities (IP '16), Istanbul, Turkey.
- Conference Scientific Committee in "5th International Conference on Managing Intellectual Property in Universities (IP '15), Istanbul, Turkey.
- Reviewer in Elsevier COMNET, Elsevier ADHOC Networks, Elsevier NANOCOMNET, IEEE Transactions on Vehicular Technologies, IEEE Communication Letters, EURASIP JWCN, IEEE

ICC, IEEE WCNC, ISCIS, NTMS, IEEE/ACM MASCOTS, ISCC, ACM MSWiM, IEEE PIMRC, ICST Mobilware, IMMERSCOM.

- Local organization committee in IEEE/ACM MASCOTS, ISCIS, IEEE ISCN, ICST Mobilware

NON-TECHNICAL ACTIVITIES

- Head of Organization Committee for "AGÜ ClubFest 2017", Student Summer Festival.
- Head of Organization Committee for "AGÜ ClubFest 2016", Student Summer Festival.
- Student Head of Organization Committee for "YTÜ Bahar Şenliği 2004", Student Summer Festival.
- President of Student Clubs of Yıldız Technical University 2004.
- President of IT Club of Yıldız Technical University 2003.