Suleyman Uludag

University of Michigan - Flint
Department of Computer Science, Engineering and Physics
303 E. Kearsley Street Flint, MI 48502
Tel : (734) 363-8001, uludag@umich.edu[1]

Educational Experience

Ph.D. in Computer Science *June 2007*
School of Computer Science, Telecommunications and Information Systems,
DePaul University, Chicago, IL USA
Thesis Title: "Quality-of-Service Routing via Statistical Guarantees"

M.Sc. in Computer Science in Telecommunication Systems, *December 1996*
School of Computer Science, Telecommunications and Information Systems,
DePaul University, Chicago, IL USA

M.B.A. in Operations Management, *December 1992*
Stuart School of Business,
Illinois Institute of Technology, Chicago, IL USA

B.A. in Business Administration in Finance, *June 1991*
Faculty of Business Administration,
Marmara University, Goztepe, Istanbul, Turkey

Professional Experience

Fulbright Scholar and Visiting Professor, *September 2018 - August 2019*
The University of Sarajevo, Sarajevo, Bosnia & Herzegovina
Faculty of Electrical Engineering.

Interim Associate Chair, The University of Michigan - Flint, MI *December 2017 - June 2018*
Department of Computer Science, Engineering and Physics.

Associate Professor, The University of Michigan - Flint, MI *September 2012 - Present*
Department of Computer Science, Engineering and Physics.

Affiliated Faculty, The University of Michigan, Ann Arbor, MI *February 2016 - Present*
Michigan Institute for Data Science (MIDAS)

Visiting Associate Professor,
The Union of Chambers and the Commodity Exchanges of Turkey (TOBB),
Economics and Technology University (ETU) Ankara, Turkey *May - Aug 2015, May - Aug 2016*
Department of Electrical and Electronics Engineering.

Visiting Scholar, The University of Illinois at Urbana-Champaign, IL *August 2013 - August 2014*
Information Trust Institute (ITI), Trustworthy Cyber Infrastructure for the Power Grid (TCIPG), MONET Research Group at the Department of Computer Science under Professor Klara Nahrstedt.

Fulbright Scholar and Visiting Associate Professor,
The Union of Chambers and the Commodity Exchanges of Turkey,
Economics and Technology University (ETU) Ankara, Turkey *September 2012 - August 2013*
Department of Computer Engineering.

[1] All text in this CV in blue font color is clickable to take the reader directly to the corresponding Web site.

Assistant Professor, The University of Michigan - Flint, MI *August 2006 - August 2012*
Department of Computer Science, Engineering and Physics.

Adjunct Faculty, DePaul University, Chicago, IL *January 1998 - June 2006*
School of Computer Science, Telecommunications and Information Systems.

Instructor, Illinois Institute of Technology, Chicago, IL *June 1997 - November 1997*
Information Technology Certificate Program

Creative and/or Scholarly Work

Research Interest Synopsis

Secure data collection, lightweight cryptography, Smart Grid communications, Smart Grid privacy, Smart Grid optimization, demand response bidding privacy, Denial-of-Service in the Smart Grid, cybersecurity education and curriculum development, routing and channel assignment in Wireless Mesh Networks, Quality-of-Service (QoS) routing in wired and wireless networks, topology aggregation, Statistical guarantees and stochastic shortest path algorithms in data networks, probabilistic modeling of Internet link metrics, distributed recovery in mobile sensor and actor networks, automatic time-series model, mobile applications development, introducing programming to non-CS majors, teaching networks.

Links to my Google Scholar Citation page and ResearchGate Profile.

Refereed Publications

*The URLs (links) below in sea blue font color are active and you can click on them to see the Digital Library where the corresponding paper is published. The names of the student co-authors are highlighted in **blue font**.*

[1] M. Karakus, E. Guler, and S. Uludag, "QoSChain: Provisioning Inter-AS QoS in Software-Defined Networks with Blockchain," *IEEE Transactions on Network and Service Management*, 2021, *Accepted for publication.*

[2] Doshi, Keval, Y. Yilmaz, and S. Uludag, "Timely Detection and Mitigation of Stealthy DDoS Attacks via IoT Networks," *IEEE Transactions on Dependable and Secure Computing*, pp. 1–1, 2021. [Online]. Available: https://ieeexplore.ieee.org/document/9316792/

[3] A. Huseinović, S. Mrdović, K. Bicakci, and S. Uludag, "A survey of denial-of-service attacks and solutions in the smart grid," *IEEE Access*, vol. 8, pp. 177 447–177 470, 2020. [Online]. Available: https://ieeexplore.ieee.org/document/9205862

[4] N. Aydin, B. Yildiz, and S. Uludag, " A Class of Weak Keys for the QCMDPC Cryptosystem," in *IEEE Seventeenth International Workshop on Algebraic and Combinatorial Coding Theory (ACCT 2020)*, October 2020. [Online]. Available: http://www.math.bas.bg/moiuser/~ACCT2020/

[5] Y. Yılmaz and S. Uludag, "Timely detection and mitigation of iot-based cyberattacks in the smart grid," *Journal of the Franklin Institute*, 2019. [Online]. Available: http://www.sciencedirect.com/science/article/pii/S0016003219301413

[6] Nuh Aydin, Bahattin Yildiz and Suleyman Uludag, "Coding Theory based Cryptography for the Internet-of-Things," in *The 16th Annual IEEE Consumer Communications and Networking Conference (CCNC '19) Tutorials*, Las Vegas, NV, USA, Jan 2019, *Accepted for publications*. [Online]. Available: http://ccnc2019.ieee-ccnc.org/program/tutorials

[7] Butkovic, Asmir, S. Mrdovic, S. Uludag, and A. Tanovic, "Geographic Profiling for serial cybercrime investigation," *Elsevier Digital Investigation*, Dec 2018. [Online]. Available: https://www.sciencedirect.com/science/article/pii/S1742287618301452{#}!

[8] Huseinovic, Alvin, S. Mrdovic, K. Bicakci, and S. Uludag, "A Taxonomy of the Emerging Denial-of-Service Attacks in the Smart Grid and Countermeasures," in *2018 26th IEEE Telecommunication Forum (TELFOR)*, Belgrade, Serbia, Nov 2018, pp. 1–4.

[9] H. Bisgin, M. Mani, and S. Uludag, "Delineating factors that influence student performance in a data structures course," in *2018 IEEE Frontiers in Education Conference (FIE)*, Oct 2018, pp. 1–9. [Online]. Available: https://ieeexplore.ieee.org/abstract/document/8659300

[10] Balli, Muhammed Fatih, S. Uludag, A. A. Selcuk, and B. Tavli, "Distributed Multi-Unit Privacy Assured Bidding (PAB) for Smart Grid Demand Response Programs," *IEEE Transactions on Smart Grid*, vol. 9, no. 5, pp. 4119–4127, Sep 2018. [Online]. Available: https://ieeexplore.ieee.org/document/7812774/

[11] Suleyman Uludag, "Classification, Solutions, and Challenges of Denial of Service Attacks on the Smart Grid," in *The 15th Annual IEEE Consumer Communications and Networking Conference (CCNC '18) Tutorials*, Las Vegas, NV, USA, 2018. [Online]. Available: http://ccnc2018.ieee-ccnc.org/program/tutorials

[12] Y. Yilmaz and S. Uludag, "Mitigating IoT-based Cyberattacks on the Smart Grid," in *ICMLA 2017 - 16th IEEE International Conference on Machine Learning and Applications, Special Session on Machine Learning in Smart Grid*, Dec 2017. [Online]. Available: https://ieeexplore.ieee.org/document/8260683/

[13] Kement, Cihan Emre, H. Gultekin, B. Tavli, T. Girici, and S. Uludag, "Comparative Analysis of Load Shaping Based Privacy Preservation Strategies in Smart Grid," *IEEE Transactions on Industrial Informatics*, pp. 1–1, 2017, *Accepted for publication.* [Online]. Available: http://ieeexplore.ieee.org/document/7956260/

[14] Cayirpunar, Omer, B. Tavli, E. Kadioglu-Urtis, and S. Uludag, "Optimal Mobility Patterns of Multiple Base Stations for Wireless Sensor Network Lifetime Maximization," *IEEE Sensors Journal*, pp. 1–1, 2017, *Accepted for publication.* [Online]. Available: http://ieeexplore.ieee.org/document/8022916/

[15] Suleyman Uludag, "Classification, Solutions, and Challenges of Denial of Service Attacks on the Smart Grid," in *The 14th Annual IEEE Consumer Communications and Networking Conference (CCNC '17) Tutorials*, Las Vegas, NV, USA. [Online]. Available: http://ccnc2017.ieee-ccnc.org/content/tutorials

[16] S. Uludag, "Opportunities and Challenges of the Smart Cities of the Future," in *9th Transist Istanbul Transport Congress and Exhibition*, Istanbul, Turkey, Nov 2016.

[17] Y. Yilmaz, S. Uludag, E. Dilek, and Ayozen, Yunus Emre, "A Preliminary Work on Predicting Travel Times and Optimal Routes Using Istanbul's Real Traffic Data," in *9th Transist Istanbul Transport Congress and Exhibition*, Istanbul, Turkey, Nov 2016.

[18] Akbas, A, H. U. Yildiz, B. Tavli, and S. Uludag, "Joint Optimization of Transmission Power Level and Packet Size for WSN Lifetime Maximization," *IEEE Sensors Journal*, vol. 16, no. 12, pp. 5084–5094, Jun 2016. [Online]. Available: http://ieeexplore.ieee.org/document/7444134/

[19] Turner, Stephen W. and Uludag, Suleyman, "Intelligent Transportation as the Key Enabler of Smart Cities," in *IEEE/IFIP Network Operations and Management Symposium (NOMS) Workshop PASC 2016*, Istanbul, Turkey, Apr 2016. [Online]. Available: http://ieeexplore.ieee.org/document/7502999/

[20] Kemal Bicakci and Suleyman Uludag, "Denial of Service Attacks on the Smart Grid: Classification, Solutions, and Challenges," in *IEEE International Conference on Communications Tutorials*, Kuala Lumpur, Malaysia, May 2016. [Online]. Available: http://icc2016.ieee-icc.org/content/tutorials

[21] Suleyman Uludag and Tolga Girici and Bulent Tavli and Hakan Gultekin, "Optimization of Smart Grid Design, Operations, and Management," in *IEEE/IFIP Network Operations and Management Symposium (NOMS) Tutorials*, Istanbul, Turkey, Apr 2016. [Online]. Available: http://noms2016.ieee-noms.org/content/tutorials

[22] S. Uludag, K. S. Lui, Ren, Wenyu, and K. Nahrstedt, "Secure and scalable data collection with time minimization in the smart grid," *IEEE Transactions on Smart Grid*, vol. 7, no. 1, pp. 43–54, 2016. [Online]. Available: http://ieeexplore.ieee.org/document/7061965/

[23] Isikman, Arif, Altun, Cankal, S. Uludag, and B. Tavli, "Power Scheduling in Privacy Enhanced Microgrid Networks with Renewables and Storage," in *2016 13th Annual IEEE Consumer Communications and Networking Conference (CCNC) (CCNC 2016)*, Las Vegas, USA, Jan 2016. [Online]. Available: http://ieeexplore.ieee.org/document/7444814/

[24] S. W. Turner and S. Uludag, "Chapter 6 : Towards Smart Cities: Interaction and Synergy of the Smart Grid and Intelligent Transportation Systems," in *Smart Grid: Networking, Data Management and Business Models*, Hussein T. Mouftah and Melike Erol-Kantarci, Ed. CRC Press, Apr 2016. [Online]. Available: http://www.crcnetbase.com/doi/abs/10.1201/b19664-9

[25] M. Mani, S. Uludag, and Zolinski, Christopher, "On Evaluating the Use of Zachman Framework in Computer Science and Information Systems Classes," *Journal of Computing Sciences in Colleges*, vol. 31, no. 1, pp. 47–59, Oct 2015. [Online]. Available: http://dl.acm.org/citation.cfm?id=2831373.2831382

[26] S. Uludag, "Tutorial v: Privacy and security augmented smart grid and microgrid optimization and communications," in *Proceedings of the 2015 11th International Conference on Innovations in Information Technology (IIT)*, ser. IIT '15. Washington, DC, USA: IEEE Computer Society, 2015, pp. XLI–XLII. [Online]. Available: http://dl.acm.org/citation.cfm?id=2921586

[27] S. Uludag, S. Zeadally, and M. Badra, "Techniques, Taxonomy, and Challenges of Privacy Protection in Smart Grid," in *Privacy in a Digital, Networked World*, S. Zeadally and M. Badra, Eds. Springer London, Jun 2015, ch. 15. [Online]. Available: https://link.springer.com/chapter/10.1007/978-3-319-08470-1_15

[28] S. Uludag, Balli, Muhammed Fatih, A. A. Selcuk, and B. Tavli, "{Privacy-Guaranteeing} Bidding in Smart Grid Demand Response Programs," in *IEEE GC 2015 Workshop on SmartGrid Resilience (SGR) (GC'15 - Workshop - SGR)*, San Diego, USA, Dec 2015, pp. 1–6. [Online]. Available: http://ieeexplore.ieee.org/document/7414089/

[29] Suleyman Uludag and Bulent Tavli, "Communications Security and Privacy of Smart Grid and Microgrid Optimization: A Conjoint Perspective," in *ITC-27 2015 Tutorials*, Ghent, Belgium, Nov 2015. [Online]. Available: http://www.itc27.org/tutorials/

[30] Isikman, Arif, Altun, Cankal, S. Uludag, and B. Tavli, "Multiobjective Optimization Framework for Power Allocation in an Islanded Microgrid," in *Third International Conference on Smart Grid*, Istanbul, Turkey, Apr 2015.

[31] Suleyman Uludag and Bulent Tavli, "Communications Security and Privacy of Smart Grid and Microgrid Optimization: A Conjoint Perspective," in *NetSys 2015 Tutorials*, Cottbus, Germany, Mar 2015. [Online]. Available: https://www.netsys2015.com/tutorials/tutorial-communications-security-privacy-smart-grid/

[32] Suleyman Uludag, "Smart Grid and Microgrid Privacy: Challenges, Taxonomy, and Solutions," in *The 12th Annual IEEE Consumer Communications and Networking Conference (CCNC '15) Tutorials*, Las Vegas, NV, USA, 2015. [Online]. Available: http://ccnc2015.ieee-ccnc.org/content/tutorials

[33] S. Uludag, K.-S. Lui, Jin, H., Ren, Wenyu, G. Dan, Tabassum, R., Zhu, Q., and K. Nahrstedt, "Secure Data Collection in Smart Grid," in *2014 TCIPG Industry Workshop*, University of Illinois at Urbana-Champaign, Nov 2014. [Online]. Available: http://tcipg.org/industryworkshop/2014-tcipg-industry-workshop

[34] T. Yardley, S. Uludag, K. Nahrstedt, and P. Sauer, "Developing a smart grid cybersecurity education platform and a preliminary assessment of its first application," in *2014 IEEE Frontiers in Education Conference (FIE) Proceedings*, Oct 2014, pp. 1–9. [Online]. Available: http://ieeexplore.ieee.org/document/7044273/

[35] Jin, H., S. Uludag, K.-S. Lui, and K. Nahrstedt, "Secure Data Collection in Constrained Tree-Based Smart Grid Environments," in *2014 IEEE International Conference on Smart Grid Communications)*, Venice, Italy, Nov 2014, pp. 308–313. [Online]. Available: http://ieeexplore.ieee.org/document/7007664/

[36] S. Uludag, K.-S. Lui, Ren, Wenyu, and K. Nahrstedt, "Secure and Scalable Communications Protocol for Data Collection with Time Minimization in the Smart Grid," University of Illinois at Urbana-Champaign, Tech. Rep. 2122, Jul 2014. [Online]. Available: http://hdl.handle.net/2142/49985

[37] S. Uludag, P. Sauer, K. Nahrstedt, and T. Yardley, "Towards designing and developing curriculum for the challenges of the smart grid education," in *2014 IEEE Frontiers in Education Conference (FIE) Proceedings*, Oct 2014, pp. 1–8. [Online]. Available: http://ieeexplore.ieee.org/document/7044469/

[38] S. Uludag, K.-S. Lui, Ren, Wenyu, and K. Nahrstedt, "Practical and Secure Machine-to-Machine Data Collection Protocol in Smart Grid," in *Workshop on Security and Privacy in Machine-to-Machine Communications (M2MSec'14) (M2MSec'14) in conjunction with IEEE Conference on Communications and Network Security (CNS)*, San Francisco, USA, Oct 2014. [Online]. Available: http://ieeexplore.ieee.org/document/6997470/

[39] S. Uludag, Karakus, Murat, and Guler, Evrim, "Low-complexity 3D Target Tracking in Wireless Aerial Sensor Networks," in *IEEE ICC 2014 - Ad-hoc and Sensor Networking Symposium (ICC'14 AHSN)*, Sydney, Australia, Jun 2014. [Online]. Available: http://ieeexplore.ieee.org/document/6883347/

[40] Suleyman Uludag, "Optimization, privacy and security in microgrids," in *The Sixth IFIP International Conference on New Technologies, Mobility and Security (NTMS 2014) Tutorials, Dubai, UAE*, Dubai, UAE, 2014. [Online]. Available: http://www.ntms-conf.org/ntms2014/index.php/program/tutorials-new

[41] Isikman, Arif, Yildirim, Seckin Anil, Altun, Cankal, S. Uludag, and B. Tavli, "Optimized scheduling of power in an islanded microgrid with renewables and stored energy," in *2013 IEEE Globecom Workshops (GC Wkshps)*. IEEE, Dec 2013, pp. 855–860. [Online]. Available: http://ieeexplore.ieee.org/lpdocs/epic03/wrapper.htm?arnumber=6825096

[42] S. W. Turner and S. Uludag, "Student Perceptions of Cheating in Online and Traditional Classes," in *2013 Frontiers in Education Conference (FIE 2013)*. Oklahoma City, USA: IEEE, Oct 2013, pp. 1131–1137. [Online]. Available: http://ieeexplore.ieee.org/lpdocs/epic03/wrapper.htm?arnumber=6685007

[43] S. Uludag, F. Demirci, E. Dogdu, Aydos, Fahri, and M. F. Demirci, "Pedagogical Analysis and Multifaceted Evaluation of an Engineering Co-op Program," in *2013 Frontiers in Education Conference (FIE 2013)*. Oklahoma City, USA: IEEE, Oct 2013, pp. 438–444. [Online]. Available: http://ieeexplore.ieee.org/lpdocs/epic03/wrapper.htm?arnumber=6684863

[44] Aradag, Umut, Mert, Burak, G. Demirel, S. Uludag, and H. O. Unver, "A framework for a multiagent-based virtual enterprise with a microgrid energy market model," in *The 11th Global Conference on Sustainable Manufacturing (GCSM 2013)*, Berlin, Germany, Sep 2013. [Online]. Available: http://www.gcsm.eu/Papers/139/19.1_23.pdf

[45] Mert, Burak, Aradag, Umut, S. Uludag, and H. O. Unver, "An architecture for a microgrid-based eco industrial park using a Multi-Agent System," in *4th International Conference on Power Engineering, Energy and Electrical Drives*, vol. 5. IEEE, May 2013, pp. 1658–1664. [Online]. Available: http://ieeexplore.ieee.org/lpdocs/epic03/wrapper.htm?arnumber=6635866

[46] Gezer, Dogan and S. Uludag, "An MV distribution automation system and its assessment in light of the smart grid vision," in *IEEE Power Engineering, Energy and Electrical Drives (POWERENG), 2013 Fourth International Conference on*. IEEE, May 2013, pp. 1116–1122. [Online]. Available: http://ieeexplore.ieee.org/lpdocs/epic03/wrapper.htm?arnumber=6635767

[47] S. Uludag, Murat Karakus, Evrim Guler, S. W. Turner, and Afelete Kita, "Assessment of a frugal, virtual and green computing lab infrastructure of the future," in *2012 Frontiers in Education Conference Proceedings*, Seattle, WA, USA, Oct 2012, pp. 1–6. [Online]. Available: http://ieeexplore.ieee.org/document/6462470/

[48] Guler, Evrim, S. Uludag, Karakus, Murat, and S. W. Turner, "Virtualized Lab Infrastructure On a Budget for Various Computing and Engineering Courses," in *Proceedings of the 11th International Conference on Information Technology Based Higher Education and Training (IHET '12)*. Istanbul, Turkey: IEEE, Jun 2012, pp. 1–7. [Online]. Available: http://ieeexplore.ieee.org/lpdocs/epic03/wrapper.htm?arnumber=6246028

[49] Karakus, Murat, S. Uludag, Guler, Evrim, S. W. Turner, and A. Ugur, "Teaching computing and programming fundamentals via App Inventor for Android," in *2012 International Conference on Information Technology Based Higher Education and Training, ITHET 2012*. IEEE, Jun 2012, pp. 1–8. [Online]. Available: http://ieeexplore.ieee.org/lpdocs/epic03/wrapper.htm?arnumber=6246020

[50] Saputro, Nico, K. Akkaya, and S. Uludag, "A survey of routing protocols for smart grid communications," *Computer Networks*, vol. 56, no. 11, pp. 2742–2771, Jul 2012. [Online]. Available: http://www.sciencedirect.com/science/article/pii/S1389128612001429

[51] S. Uludag, Guler, Evrim, Karakus, Murat, and S. W. Turner, "An affordable virtual laboratory infrastructure to complement a variety of computing classes," *Journal of Computing Sciences in Colleges*, vol. 27, no. 5, pp. 158–166, May 2012. [Online]. Available: http://dl.acm.org/citation.cfm?id=2168874.2168912

[52] Suleyman Uludag, "Information and Networking Infrastructure of the Smart Grid," in *International Multitopic Conference (IMTIC 2012)*, Mehran University of Engineering and Technology (MUET), Jamshoro, 76062, Sindh, Pakistan, 2012. [Online]. Available: http://imtic.muet.edu.pk/imtic12/node/101

[53] S. Uludag, Imboden, Tom, and K. Akkaya, "A taxonomy and evaluation for developing 802.11-based wireless mesh network testbeds," *International Journal of Communication Systems*, vol. 25, no. 8, pp. 963–990, 2012. [Online]. Available: http://dx.doi.org/10.1002/dac.1299

[54] S. Uludag, Karakus, Murat, and S. W. Turner, "Implementing IT0/CS0 with scratch, app inventor forandroid, and lego mindstorms," in *Proceedings of the 2011 conference on Information technology education - SIGITE '11*, ser. SIGITE '11. New York, New York, USA: ACM Press, Oct 2011, p. 183. [Online]. Available: https://dl.acm.org/citation.cfm?id=2047645

[55] Suleyman Uludag, "Information and Networking Infrastructure of the Smart Grid," in *The IEEE International Conference on Computer Communications and Networks (ICCCN 2011), Maui, Hawaii*, Maui, Hawaii, 2011. [Online]. Available: http://icccn.org/icccn11/tutorials.html

[56] S. Uludag and McBride, Brian, "Teaching Networking Concepts through Bluetooth Software Implementation," in *2010 IEEE Frontiers in Education Conference (FIE)*. IEEE, Oct 2010, pp. F4F—-1—-F4F—-2. [Online]. Available: http://ieeexplore.ieee.org/lpdocs/epic03/wrapper.htm?arnumber=5673191

[57] K. Akkaya, Senel, Fatih, Thimmapuram, Aravind, and S. Uludag, "Distributed recovery from network partitioning in movable sensor/actor networks via controlled mobility," *IEEE Transactions on Computers*, vol. 59, no. 2, pp. 258–271, feb 2010. [Online]. Available: http://ieeexplore.ieee.org/lpdocs/epic03/wrapper.htm?arnumber=5184822

[58] S. Uludag, Uludag, Ziyneti E., K. Nahrstedt, K. S. K.-S. Lui, and F. Baker, "A laplace transform-based method to stochastic path finding," in *IEEE International Conference on Communications*. IEEE, Jun 2009, pp. 1–5. [Online]. Available: http://ieeexplore.ieee.org/lpdocs/epic03/wrapper.htm?arnumber=5198619

[59] S. Uludag and K. Akkaya, "Distributed Channel Assignments in Wireless Mesh Networks with Guaranteed Connectivity," in *the 33rd Annual IEEE Conference on Local Computer Networks (LCN)*, 2008.

[60] S. Uludag, Uludag, Ziyneti E, Howell, Anthony, F. Baker, and K.-S. Lui, "Stochastically Guaranteed Routing for Additive Link Metrics with Unknown Distributions," Jan 2008.

[61] K. Akkaya, Thimmapuram, Aravind, Senel, Fatih, and S. Uludag, "Distributed Recovery of Actor Failures in Wireless Sensor and Actor Networks," in *2008 IEEE Wireless Communications and Networking Conference*. IEEE, Mar 2008, pp. 2480–2485. [Online]. Available: http://ieeexplore.ieee.org/lpdocs/epic03/wrapper.htm?arnumber=4489467

[62] S. Uludag, L. Perkovic, Kashkanova, Anna, and K. Akkaya, "Quality-of-Service Provisioning via Stochastic Path Selection under Weibullian Link Delays," in *ACM QShine 2007*, Vancouver, BC, Canada, Aug 2007.

[63] Tam, W.-Y., K.-S. Lui, S. Uludag, and K. Nahrstedt, "Quality-of-Service routing with path information aggregation," *Computer Networks*, vol. 51, no. 12, pp. 3574–3594, Aug 2007. [Online]. Available: http://www.sciencedirect.com/science/article/pii/S1389128607000783

[64] S. Uludag, K.-S. Lui, K. Nahrstedt, and G. Brewster, "Analysis of Topology Aggregation techniques for QoS routing," *ACM Computing Surveys*, vol. 39, no. 3, pp. 7—-es, Sep 2007. [Online]. Available: https://dl.acm.org/citation.cfm?doid=1267070.1267071

[65] S. Uludag, K.-S. S. Lui, and Z. E. Uludag, "Probabilistic Path Selection under Inaccuracy via Augmented Shortest Path Algorithms," in *GLOBECOM - IEEE Global Telecommunications Conference*. IEEE, Nov 2006, pp. 1–5. [Online]. Available: http://ieeexplore.ieee.org/lpdocs/epic03/wrapper.htm?arnumber=4151057

[66] S. Uludag, G. Brewster, and K.-S. Lui, "Statistical Guarantees in QoS Routing based on Empirical Link Probability Information," in *IEEE INFOCOM 2006 Student Workshop*, Barcelona, Spain, Apr 2006.

[67] W.-Y. Tam, K.-S. Lui, and S. Uludag, "Aggregating Path Information in Distance-Vector Protocols," in *4th IASTED International Conference on Communications, Internet and Information Technology (CIIT)*, Cambridge, MA, USA, Oct 2005, pp. 200–205.

[68] S. Uludag, L. Perkovic, and G. Brewster, "Stochastic Quality-of-Service Routing for Delay Sensitive Applications," in *IEEE INFOCOM Student Workshop*, Miami, FL, Mar 2005.

[69] S. Uludag, K.-S. Lui, K. Nahrstedt, and G. Brewster, "Comparative Analysis of Topology Aggregation Techniques and Approaches for the Scalability of QoS Routing," DePaul University, School of Computer Science, Tech. Rep. TR05-010, may 2005. [Online]. Available: http://www.cdm.depaul.edu/academics/research/Documents/TechnicalReports/2005/TR05-010.pdf

[70] S. Uludag, L. Perkovic, and G. Brewster, "Stochastic Shortest Path Algorithms for Delay Sensitive Applications in the Internet," in *Institute for Operations Research and the Management Sciences (INFORMS) Triennial Conference*, Miami, FL, Jul 2005.

[71] S. Aly and S. Uludag, "Multimedia QoS Support for IEEE 802.11 Wireless LANs," in *School of Computer Science, Telecommunications and Information Systems Research Symposium (CTIRS '03)*, Chicago, IL, Nov 2003.

[72] M. S. Borella, D. Swider, S. Uludag, and G. B. Brewster, "Analysis of End-to-End Internet Packet Loss: Dependence and Asymmetry," 3Com Advanced Technologies, Tech. Rep. AT 031798, Mar 1998.

[73] M. Borella, D. Swider, S. Uludag, and G. B. Brewster, "Internet packet loss: measurement and implications for end-to-end QoS," in *Proceedings of the 1998 ICPP Workshop on Architectural and OS Support for Multimedia Applications Flexible Communication Systems. Wireless Networks and Mobile Computing (Cat. No.98EX206)*. IEEE Comput. Soc, 1998, pp. 3–12. [Online]. Available: http://ieeexplore.ieee.org/lpdocs/epic03/wrapper.htm?arnumber=721868

[74] M. Borella, S. Uludag, G. Brewster, and I. Sidhu, "Self-similarity of Internet packet delay," in *Proceedings of ICC'97 - International Conference on Communications*, vol. 1. IEEE, 1997, pp. 513–517. [Online]. Available: http://ieeexplore.ieee.org/lpdocs/epic03/wrapper.htm?arnumber=605360

Submitted for Publication

4 journal papers are in review, one in the second round of revisions at highly selective, "Transactions" journals. Several journal and conference paper ideas are at various stages of preparation for submission.

Books

Signed a contract with Wiley (a major publisher in Science and Engineering) Smart Grid Management and Optimization book in May 2016.

Grants

The Summer Undergraduate Research Experience (SURE) Grant *May 2018 - August 2018*

Awarded $4000 by the UM-F Office of Research (funded by the C.S. Mott Foundation) that involved 3 undergraduate students in research; joint work work with Dr. Halil Bisgin.

Provost's 60th Anniversary Research Grant *Fall 2016 - Winter 2017*

TUBITAK (Turkish NSF) Visiting Scientist Grant *Apr - Aug 2016, May - Sep 2015*

UMF Technology Fee Hardware Grant *April 2011*

Awarded funds to purchase LEGO robotics and Android smartphones as part of programming classes and new mobile applications courses $6,875

UMF Thomson Center for Learning and Teaching Faculty Development Grant *December 2010*

Awarded money to purchase LEGO robotics and Android smartphones as part of programming classes and new mobile applications courses $1,500.

UMF Technology Fee Hardware Grant *April 2010*

To purchase a high-end server to teach virtualization and cloud computing in networking classes. $4,000

The Cisco Collaborative Research Initiative *June 2007 - December 2008*

co-PI, "*Network Parameter Representation and Quality of Service Routing in the Internet*", $95,000

Research and Creative Activity Fund *May 2007 - April 2008*

PI for Quality of Service Geographic Routing in Wireless Sensor Networks, funded by the Office of Research at the UMF, $11,600

Research and Creative Activity Fund, *January 2007 - January 2008*

co-PI for Global Supply Chain Collaboration Network Project, funded by the CSC 391 - Independent Study Office of Research at the UMF and the School of Management, $20,000

Pedagogical Fellowship Grant, *Summer 2007*

By the Thomson Center for Teaching and Learning at UMF, $3,000

Teaching Experience

Courses Taught

I have always developed my own teaching material for all my courses, including slides, homeworks, exams, labs, etc. I have shared my teaching material with everyone who asked for it, including slides, homeworks, labs, exams, peer assessment rubrics, syllabi, etc. Many of my developed materials are used by many faculty in the department. Here is a list of courses I taught/developed:

- CSC 101 - Fluency in Information Technology and Computing (Undergrad, UM-Flint)
- CSC 122 - Intro to Programming (Undergrad, UM-Flint)
- CSC 127 Using a Unix Computer System (Undergrad, UM-Flint)
- CIS 175 - Problem Solving & Programming I (Undergrad, UM-Flint)
- CSC 175 - Problem Solving & Programming I (Undergrad, UM-Flint)
- CIS 275 - Problem Solving & Programming II (Undergrad, UM-Flint)
- CSC 275 - Problem Solving & Programming II (Undergrad, UM-Flint)
- CSC 375 - Data Structures (Undergrad, UM-Flint) [*pending*]
- CIS 276 - Problem Solving & Programming in Java II (Undergrad, UM-Flint)
- CSC 276 - Problem Solving & Programming in Java II (Undergrad, UM-Flint)
- CIS 335 - Business Telecommunication and Computer Networks (Undergrad, UM-Flint)
- CSC 335 - Computer Networks - I (Undergrad, UM-Flint)
- CSC 378 - Network Security and Cryptography (Undergrad, UM-Flint)
  [Developed the material but the class canceled twice for low enrollment; handed the class design, content and the material to another faculty for Fall 2018]
- CSC 391 - Independent Study (Undergrad, UM-Flint)
- CIS 401 - Internship in Computer Information Systems (Undergrad, UM-Flint)
- CSC 525 Wireless and Mobile Computing (Graduate, UM-Flint)
- CSC 535 - Advanced Computer Networks (Graduate, UM-Flint)
- CIS 550 - Decision Support Systems (Graduate, UM-Flint)

- ETF RII TS 5955 Computing and Informatics Security Technologies (Undergraduate, University of Sarajevo, Faculty of Electrical Engineering) [*pending*]

- BIL 425 - Software Development for Mobile Apps (Android) (Undergrad, TOBB University of Economics and Technology, Ankara, Turkey)
- BIL 447 - Introduction to Communications Infrastructure of Smart Grids (Undergrad, TOBB University of Economics and Technology, Ankara, Turkey)
- BIL 547 - Advanced Communications Infrastructure of Smart Grids (Graduate, TOBB University of Economics and Technology, Ankara, Turkey)

- TDC362 - Principles of Data Communications (Undergraduate, DePaul U., Chicago, IL)
- TDC363 - Introduction to Local Area Networks (Undergraduate, DePaul U., Chicago, IL)
- TDC462 - Data Communications (Graduate, DePaul U., Chicago, IL)
- TDC511 - Telecommunications Practicum (Graduate, DePaul University, Chicago, IL)

Pedagogical Grants

UMF Technology Fee Hardware Grant *April 2011*
Awarded funds to purchase LEGO robotics and Android smartphones as part of programming classes and new mobile applications courses $6,875

UMF Thomson Center for Learning and Teaching Faculty Development Grant *December 2010*
Awarded money to purchase LEGO robotics and Android smartphones as part of programming classes and new mobile applications courses $1,500.

UMF Technology Fee Hardware Grant *April 2010*
To purchase a high-end server to teach virtualization and cloud computing in networking classes. $4,000

Pedagogical Fellowship Grant *Summer 2007*
By the Thomson Center for Teaching and Learning at UMF, $3,000

TCLT Pedagogical Fellowship *Spring/Summer 2007*
Course Redesign: Design of Intensive Labs for CIS 335 Topics by Thomson Center for Teaching and Learning
Link to TCLT Fellowships

Pedagogical Grant Panelist

Panelist for US Department of Energy, Solar Energy Technologies Office (SETO), Improving and Expanding the Solar Industry through Workforce Initiatives *Jun - Aug 2018*

Panelist for NSF IUSE (Improving Undergraduate STEM Education) *May 2014*

Panelist for Graduate Assistance in Areas of National Need (GAANN) Peer Review Process for U.S. Department of Education *May 2012*

Panelist Reviewer for NSF Scholarship for Service (SFS) Program Division of Undergraduate Education *May 2012*

Panelist Reviewer for NSF Transforming Undergraduate Education in Science, Technology, Engineering and Mathematics (TUES) Program *July 2010*

Technical Program Committee Member and Reviewer for Pedagogical Conferences *2007 - present*
Too many to list all, including
ACM Association for Computing Machinery's Special Interest Group on Computer Science Education (SIGCSE),
ACM Special Interest Group for Information Technology Education (SIGITE),
ACM The Innovation and Technology in Computer Science Education conference (ITiCSE) Conference,
IEEE Global Engineering Education Conference
IEEE Frontiers in Education conference (FIE), etc.

Pedagogical Conferences attended to present papers
IEEE Frontiers in Education conference (FIE) 2014 (2 papers),
IEEE Frontiers in Education conference (FIE) 2013 (2 papers),
IEEE Frontiers in Education conference (FIE) 2012,
IEEE Int'l Conf. on Information Technology Based Higher Education and Training (ITHET) 2012 (2 papers),
IEEE Frontiers in Education conference (FIE) 2010,
ACM Special Interest Group for Information Technology Education (SIGITE) 2011,
[**MERITORIOUS PAPER AWARD**]

Student Research Supervision

I have 57 non-unique (*that is, same student publishing twice with me counts 2*) and 33 unique student co-authors in peer-reviewed publications. The names of the student co-authors are highlighted in **blue font** below under *Pedagog-*

ical Publications on page **12** and *Creative and/or Scholarly Work* section on page **2**. I have had many UROP and GSRA undergrad and graduate students for research projects. I have obtained a SURE (Summer Undergraduate Research Experience) at the UM-Flint in the summer of 2018 and supervised 3 new undergraduate students through it.

I have served on 1 M.Sc. thesis committee (U of Hong Kong) and 1 Ph.D. committee (TOBB ETU). I am now serving on a Ph.D. committee at the Department of Computer Science of the University of Illinois at Urbana-Champaign as well as supervising a dissertation at the Faculty of Electrical Engineering at the University of Sarajevo, Sarajevo, Bosnia and Herzegovina.

Pedagogical Publications

The following is the *subset* of my publications[2] in *only* peer-reviewed, **pedagogical research conference/journals**. I have attended all of these conferences and presented the papers and chaired sessions in some. *The URLs (links) below in sea blue font color are active and you can click on them to see the Digital Library where the corresponding paper is published. The names of the student co-authors are highlighted in **blue font**.*

[1] H. Bisgin, M. Mani, and S. Uludag, "Delineating factors that influence student performance in a data structures course," in *2018 IEEE Frontiers in Education Conference (FIE)*, Oct 2018, pp. 1–9. [Online]. Available: https://ieeexplore.ieee.org/abstract/document/8659300

[2] M. Mani, S. Uludag, and Zolinski, Christopher, "On Evaluating the Use of Zachman Framework in Computer Science and Information Systems Classes," *Journal of Computing Sciences in Colleges*, vol. 31, no. 1, pp. 47–59, Oct 2015. [Online]. Available: http://dl.acm.org/citation.cfm?id=2831373.2831382

[3] T. Yardley, S. Uludag, K. Nahrstedt, and P. Sauer, "Developing a smart grid cybersecurity education platform and a preliminary assessment of its first application," in *2014 IEEE Frontiers in Education Conference (FIE) Proceedings*, Oct 2014, pp. 1–9. [Online]. Available: http://ieeexplore.ieee.org/document/7044273/

[4] S. Uludag, P. Sauer, K. Nahrstedt, and T. Yardley, "Towards designing and developing curriculum for the challenges of the smart grid education," in *2014 IEEE Frontiers in Education Conference (FIE) Proceedings*, Oct 2014, pp. 1–8. [Online]. Available: http://ieeexplore.ieee.org/document/7044469/

[5] S. W. Turner and S. Uludag, "Student Perceptions of Cheating in Online and Traditional Classes," in *2013 Frontiers in Education Conference (FIE 2013)*. Oklahoma City, USA: IEEE, Oct 2013, pp. 1131–1137. [Online]. Available: http://ieeexplore.ieee.org/lpdocs/epic03/wrapper.htm?arnumber=6685007

[6] S. Uludag, F. Demirci, E. Dogdu, Aydos, Fahri, and M. F. Demirci, "Pedagogical Analysis and Multifaceted Evaluation of an Engineering Co-op Program," in *2013 Frontiers in Education Conference (FIE 2013)*. Oklahoma City, USA: IEEE, Oct 2013, pp. 438–444. [Online]. Available: http://ieeexplore.ieee.org/lpdocs/epic03/wrapper.htm?arnumber=6684863

[7] S. Uludag, Murat Karakus, Evrim Guler, S. W. Turner, and Afelete Kita, "Assessment of a frugal, virtual and green computing lab infrastructure of the future," in *2012 Frontiers in Education Conference Proceedings*, Seattle, WA, USA, Oct 2012, pp. 1–6. [Online]. Available: http://ieeexplore.ieee.org/document/6462470/

[8] Guler, Evrim, S. Uludag, Karakus, Murat, and S. W. Turner, "Virtualized Lab Infrastructure On a Budget for Various Computing and Engineering Courses," in *Proceedings of the 11th International Conference on Information Technology Based Higher Education and Training (IHET '12)*. Istanbul, Turkey: IEEE, Jun 2012, pp. 1–7. [Online]. Available: http://ieeexplore.ieee.org/lpdocs/epic03/wrapper.htm?arnumber=6246028

[9] Karakus, Murat, S. Uludag, Guler, Evrim, S. W. Turner, and A. Ugur, "Teaching computing and programming fundamentals via App Inventor for Android," in *2012 International Conference on Information Technology Based Higher Education and Training, ITHET 2012*. IEEE, Jun 2012, pp. 1–8. [Online]. Available: http://ieeexplore.ieee.org/lpdocs/epic03/wrapper.htm?arnumber=6246020

[2] The full list of my publications, including the pedagogical publications below, is given starting on page **2**.

[10] S. Uludag, Guler, Evrim, Karakus, Murat, and S. W. Turner, "An affordable virtual laboratory infrastructure to complement a variety of computing classes," *Journal of Computing Sciences in Colleges*, vol. 27, no. 5, pp. 158–166, May 2012. [Online]. Available: http://dl.acm.org/citation.cfm?id=2168874.2168912

[11] S. Uludag, Karakus, Murat, and S. W. Turner, "Implementing IT0/CS0 with scratch, app inventor forandroid, and lego mindstorms," in *Proceedings of the 2011 conference on Information technology education - SIGITE '11*, ser. SIGITE '11. New York, New York, USA: ACM Press, Oct 2011, p. 183. [Online]. Available: https://dl.acm.org/citation.cfm?id=2047645

[12] S. Uludag and McBride, Brian, "Teaching Networking Concepts through Bluetooth Software Implementation," in *2010 IEEE Frontiers in Education Conference (FIE)*. IEEE, Oct 2010, pp. F4F—-1—-F4F—-2. [Online]. Available: http://ieeexplore.ieee.org/lpdocs/epic03/wrapper.htm?arnumber=5673191

Awards and Recognitions

Fulbright U.S. Scholar Program Core Award *August 2018 - July 2019*
To teach and research at the Faculty of Electrical Engineering,
University of Sarajevo, Sarajevo, Bosnia & Herzegovina.
https://www.cies.org/grantee/suleyman-uludag-0

Fulbright U.S. Scholar Program Core Award *September 2012 - June 2013*
To teach and research at the Department of Computer Engineering,
The Union of Chambers and the Commodity Exchanges of Turkey (TOBB)
Economics and Technology University (ETU) Ankara, Turkey.
https://www.cies.org/grantee/suleyman-uludag

Lois Matz Rosen Junior Faculty Excellence in Teaching Award *April 2010*
University level teaching excellence award.

Golden Apple Teaching Recognitions *many semesters...*

Service

Program Service

Committee Chair for 1 staff annual evaluation	*Winter 2018*
Committee Chair for 4 faculty contract renewals	*Winter 2018*
Committee Chair for 3 4-year reviews	*Winter 2018*
Committee Chair for 1 2-year review	*Winter 2018*
Committee Chair for 2 Major (one with remediation) and 1 Interim LEO reviews	*Winter 2018*
Faculty Award Nominations Letters for three faculty members	*Winter 2018*
Graduate Scholarship and GSRA Committee Chair	*Winter/Spring 2018*
MS CSIS Graduate Admission Committee (read **600+ applications** so far)	*May 2017 - Present*
2017 Interim Review for the MS-CSIS Program	*December 2017 - April 2018*
Chair of Subcommittee to update CSC 175/275/276/275 curricula	*Sep 2016 - Apr 2017*
Chair of Subcommittee to update Systems/Networking/Security tracks	*Sep 2016 - Apr 2017*
Capstone Reviewer	*April 2016*
Chair of Computer Science Faculty Search Committee	*September 2015 - July 2016*
Tenure and Promotion Committee Member	*Fall 2013 - present*
2-year and 4-yr Review Committee Member	*2013 - 2017*
Chair of CS Faculty Search Committee	*June - December 2011*
Chair of Computer Science Faculty Search Committee	*January 2011 - April 2011*
Chair of Computer Information Systems Program Update Committee	*May 2009 - Jun 2009*
Chair of General Education Course Designation Committee for CS and CIS courses	*May 2009 - Jun 2010*
Chair of Computer Information Systems Program Update Committee	*May 2009 - Jun 2009*
Chair of General Education Course Designation Committee for CS and CIS courses	*May 2009 - Jun 2011*
Chair of CSESP Infrastructure Committee	*Winter 2008*
CS Faculty Search Committee	*Winter 2008*
High School Programming Contest Organization Committee	*Winter 2007 - Winter 2008*
MS CSIS Exit Exam Reviewer	*Fall 2007 - Winter 2016*

Departmental Service

Committee Chair for 5 faculty annual reviews	*Winter 2018*
Committee Member for 2 staff annual evaluation	*Winter 2018*
CSEP Interim Associate Chair	*December 2017 - June 2018*
CSEP Open House Slide Development	*October 2015*
MS-CIS Graduate Scholarship Committee Chair	*Winter 2017 - present*
CSEP Undergraduate Scholarship Committee Chair and Member	*Winter 2014 - present*
Peer Evaluation of CSEP Faculty	*2009 - Present*
Chair of ELMS Academic Software for students	*2009 - Present*
Lecturer Reviewer for CSESP	*Fall 2007 - present*
Online Teaching Policy Committee	*Fall 2007*
CSESP Assessment Committee	*Fall 2007 - Fall 2008*
Chair of Freeman Science Scholarship Committee	*Winter 2007 - Aug 2012*

College Service

Michigan Economic Development Corporation (MEDC)	
Cyber Range Hub Committee	*Mar 2018 - present*
Council of Chairs Member	*Jan - Jun 2018*
College Appeals Panel	*May 2017 - May 2018*
CAS Nominating Committee Chair	*Jan 2017 - Dec 2017*
College Appeals Panel	*May 2016 - May 2017*
College Nominating Committee	*January 2015 - December 2015*

University Service

Budget Committee for Fiscal Year 2019	*Feb 2018 - Jun 2018*
Witness to a Grievance Committee	*Jan 2018*
Chancellor's Avdisory Committee for Budget and Strategic Planning (CAC/BSP)	*Jan 2018 - Jul 2018*
Administrative Services Advisory Committee (ASAC)	*Oct 2017 - Present*
Office of Research, Research Development Series Committee Member	*Jun 2017 - Present*
HLC Steering Committee **(wrote 2 out of 21 components for the Self-Study)**	*Sep 2016 - Present*
Co-chair of HLC 2019 Continued Accreditation Committee, Criteria 5	*May 2016 - Present*
Technology Committee	*September 2015 - June 2018*
UMF Honors Council	*September 2014 - December 2015*
U of Michigan Road Scholar	*Jan 2012 - May 2012*
Nominating Committee	*September 2011 - August 2014*
UMF College Advising Implementation Committee	*July 2010 - 2012*
UMF Strategic Planning Learning, Scholarship and Professional Dev. Task Force	*May 2010 - Aug 2012*
General Education Curriculum Advisory Committee	*June 2010 - Aug 2012*

Professional Service

1. Conference Organizing Committee and Technical Program Committee
   Technical program committee for IEEE ICC'19 - SAC-9 SGC Track (2019 IEEE International Conference on Communications (ICC): SAC Smart Grid Communications Track)
   Student Grants Chair for the 2019 IEEE 44th Conference on Local Computer Networks (LCN) Osnabrüeck, Germany, 13-17 October 2019,
   Corporate Relationship Chair for IEEE Local Computer Networks (LCN) 2018, Chicago, IL Oct 2-4 2018,
   IEEE Global Engineering Education Conference (EDUCON 2017),
   International Conference on Smart Cities and Green ICT Systems (SMARTGREENS) 2015-2018,
   Workshop Chair, IEEE Local Computer Networks (LCN) Smart Grid Networking Infrastructure 2010-2011,
   IEEE International Communications Conference (ICC) 2010 - 2018,
   IEEE International Conference on Computer Communications and Networks (ICCCN) 2009 - 2018,
   International Symposium on Information, communication and automation technologies (ICAT) 2017,
   International Conference on Advanced Engineering Technologies (ICADET) 2017,
   IEEE/IFIP Network Operations and Management Symposium (NOMS) 2015-2018,
   IEEE Global Communications Conference (GLOBECOM) 2011-2018,
   ACM Special Interest Group on Computer Science Education SIGCSE 2013-2016,
   International Conference on Broadband Communications, Networks, and Systems (BROADNETS) 2009,
   IEEE Communications and Networking Symposium of Canadian Conference on Electrical and Computer Engineering - CCECE 2009,

2. Peer Reviewer for accreditation and scholarship awards
   Panelist for US Department of Education,
   Graduate Assistance in Areas of National Need (GAANN) 2018,
   Fulbright Scholar Peer Review Committee, 2015 - present,
   ABET Program Evaluator (Computing Accreditation Commission - CAC), 2013 - present,
   Panelist for US Department of Education, Graduate Assistance in Areas of National Need (GAANN) 2012,

3. Panelists and reviewer for grant proposals
   Panelist for US Department of Energy, Solar Energy Technologies Office (SETO),
   Improving and Expanding the Solar Industry through Workforce Initiatives Jun - Aug 2018,
   Panelist for National Science Foundation (NSF) Secure and Trustworthy Cyberspace (SaTC), 2017,
   Panelist for National Science Foundation (NSF) Smart and Autonomous Systems (S&AS), 2017,
   Grant Proposal Reviewer for Natural Sci. and Eng. Research Council of Canada (NSERC), 2016-present,

Panelist and grant proposal reviewer for
The Scientific and Technological Research Council of Turkey (TUBITAK) 2013-present,
Panelist for National Science Foundation (NSF) Scholarship for Service (SFS), 2012,
Panelist for National Science Foundation (NSF) Transforming Undergraduate Education (TUES), 2010,

4. Conference Session Chair
IEEE Local Computer Networks, 2018,
IEEE International Communications Conference (ICC) 2015,
IEEE/ASEE Frontiers in Education 2013,
IEEE International Communications Conference (ICC) 2009,
IEEE Wireless Communications and Networking Conference, 2008,
IEEE Local Computer Networks, 2008,

5. Reviewer for Journals and Book Chapters
Elsevier Computer Communications Journal,
Elsevier Ad Hoc Networks Journal,
IEEE Sensors Journal,
IEEE Transactions on Industrial Electronics Journal,
IEEE Internet of Things Journal,
IEEE Transactions on Smart Grid Journal,
IEEE Transactions on Green Communications and Networking Journal,
IEEE Transactions on Network and Service Management Journal,
Elsevier Computer Networks Journal,
Electronics and Telecommunications Research Institute (ETRI) Journal,
Hindawi International Journal of Distributed Sensor Networks,
IEEE Communications Letter Journal,
IEEE Transactions on Emerging Topics in Computing Journal,
IEEE Transactions on Multimedia Journal,
IEEE Transactions on Vehicular Technology Journal,
IEEE Transactions on Computers Journal,
International Journal of Sensor Networks Journal,
IEEE Journal in Selected Areas of Communications,
Korean Society for Internet Information Transactions on Internet and Information Systems Journal,
MDPI (Multidisciplinary Digital Publishing Institute) Sensors Journal,
SCIENCE CHINA Information Sciences Journal,
Wiley Book Chapter reviews for Transportation and Power Grid in Smart Cities: Communication Networks and Services,
Springer Frontiers of Information Technology & Electronic Engineering Journal,
Elsevier Journal of Information Security and Applications,
IEEE Transactions on Industrial Informatics Journal,

6. Reviewer for Conferences
Faculty Judge for Student Poster Competition - Data Science Annual Symposium,
Oct. 8, 9 MIDAS, U of Michigan Ann Arbor, Oct 2018 ,
IEEE Consumer Communications & Networking Conference 2008,
The 6th International Workshop on Cyber Security and Privacy, 2017,
IEEE International Communications Conference (ICC) 2010 - 2018,
IEEE International Conference on Computer Communications and Networks (ICCCN) 2009 - 2018,
IEEE/IFIP Network Operations and Management Symposium (NOMS) 2015-2017,
ACM Special Interest Group on Computer Science Education SIGCSE 2013-2016,
International Conference on Broadband Communications, Networks, and Systems (BROADNETS) 2009,
IEEE Global Communications Conference (GLOBECOM) 2008-2018,

IEEE Symposium on Computers and Communication (ISCC) 2016,
IEEE International Conference on Computer Communications (INFOCOM) 2009,
IEEE Innovation and Technology in Computer Science Education (ITiCSE) 2009-2011,
IFIP/TC6 NETWORKING Conference 2007,
25th Queen's Biennial Symposium on Communications 2010,
ACM Special Interest Group on Information Technology Education SIGITE 2010-12,
IEEE SmartGridComm Smart Grid Communication Networks Symposium 2012,
IEEE SoftCOM 2009 17th Conference on Software, Telecommunications and Computer Networks,
International Conference on Smart Cities and Green ICT Systems (SMARTGREENS) 2015-2018,
Workshop on Wireless Ad hoc and Sensor Networks (WWASN), 2008-2011,
IEEE Symposium on Computers and Communication (ISCC) 2016,

7. Editorial
   Co-editor of Special issue of Elsevier Ad Hoc Networks Journal, 2014

Community Service (relevant to profession)

US Dept of Commerce, NIST, the National Initiative for Cybersecurity Education (NICE), K-12 Working group member	*January 2018 - present*
First Lego League Coach, Logan Elementary School	*Sep 2017 - Present*
Michigan Math and Science Academy K-12 Charter School Chief Administrative Officer	*Apr 2017 - Present*
Michigan Math and Science Academy K-12 Charter School Board Treasurer	*Aug 2015 - Present*
Michigan Math and Science Academy K-12 Charter School Board Member	*Jan 2015 - Present*
Michigan Math and Science Academy Science Fair Judge	*Dec 2015 - Present*
Michigan Math and Science Academy K-12 Charter School Board Member	*Feb 2011 - Sep 2012*
CONSEF Science and Engineering Fair Judge	*Jan 2011 - Apr 2012*
Michigan Math and Science Academy Science Fair Judge	*Jan 2009 - May 2012*
Michigan Math and Science Academy K-8 Charter School Board Treasurer	*Feb 2011 - Sep 2012*
Michigan Math and Science Academy K-8 Charter School Board Member	*Jan 2010 - Sep 2012*
Flint Regional Science Fair Judge	*Mar 2009 - Apr 2012*

Other service

It is hard to classify Fulbright Awards in one of the aforementioned service types. It has a university service component, as well as professional, community, and obviously US national service dimensions.

Fulbright U.S. Scholar Program Core Award *August 2018 - July 2019*
To teach and research at the Faculty of Electrical Engineering,
University of Sarajevo, Sarajevo, Bosnia & Herzegovina.
https://www.cies.org/grantee/suleyman-uludag-0

Fulbright U.S. Scholar Program Core Award *September 2012 - June 2013*
To teach and research at the Department of Computer Engineering,
The Union of Chambers and the Commodity Exchanges of Turkey (TOBB)
Economics and Technology University (ETU) Ankara, Turkey.
https://www.cies.org/grantee/suleyman-uludag

Professional Affiliations

ACM Member *1999 - Present*

Member of ACM and Special Interest Group on Communications (SIGCOMM),
ACM Special Interest Group on Information Technology Education (SIGITE),
ACM Special Interest Group on Computer Science Education (SIGCSE),
The ACM Computer Science Teachers Association (CSTA).

IEEE Member *1996 - Present*
Member of IEEE and Communications Society,
IEEE Big Data Community
Vehicular Technology Society Technical Community on Connected Vehicles,
Cybersecurity Community,
Computer Society Technical Community on Education,
Internet of Things Community,
Computer Society Technical Committee on the Internet,
IEEE Computer Society Technical Committee on Security and Privacy,
Smart Cities Community,
Smart Grid Community,
Computer Society Technical Community on Smart Grid,
Transportation Electrification Community,
Computer Society Membership,
Information Theory Society Membership.