

CURRICULUM VITAE

Ibrahim Korpeoglu
Computer Engineering Department
Bilkent University

(Last Update: December 15, 2011)

PERSONAL DATA

Address: Computer Engineering Department,
Bilkent University, 06800 Ankara, Turkey
Phone: +90 312 290 2599
Fax: +90 312 266 4047
E-mail: korpe@bilkent.edu.tr
Web: <http://www.cs.bilkent.edu.tr/~korpe>

EDUCATION and ACADEMIC DEGREES

Asst. Prof., Computer Engineering Department,
Bilkent University, Ankara, Turkey, 2002

Ph.D., Computer Science Department,
University of Maryland at College Park, MD, USA, 2000

M.S., Computer Science Department,
University of Maryland at College Park, MD, USA, 1996

B.S., Computer Engineering Department,
Bilkent University, Ankara, Turkey, 1994

PROFESSIONAL EXPERIENCE

2/2002-Present, Assistant Professor, Computer Engineering Department,
Bilkent University, Ankara, Turkey

7/2000-1/2002, Engineer,
Ericsson, Santa Barbara, CA, USA

6/1998-3/2000, Graduate Research Intern,
IBM T.J. Watson Research Center, Hawthorne, NY, USA

6/1996-9/1996, Graduate Research Intern,
Bell Laboratories (Lucent Technologies), Holmdel, NJ, USA

5/1995-9/1995, Graduate Research Intern,
Bell Communications Research (Bellcore), Red Bank, NJ, USA

9/1995-6/1998, Graduate Research Assistant, Computer Science Department,
University of Maryland at College Park, MD, USA

8/1994-9/1995, Graduate Teaching Assistant, Computer Science Department,
University of Maryland at College Park, MD, USA

PROFESSIONAL AWARDS

- IBM Faculty Award, 2009.
- Bilkent University Distinguished Teaching Award, 2006.
- Associate Professor (Docent) title from Inter-University Council of Turkey, January 4, 2008.
- IEEE Computer Society Certificate of Appreciation Service Award, 2007.

- National Young Researcher Career Award, The Scientific and Technological Research Council of Turkey (TUBITAK), 2004.
- IBM First Patent Filing Award, New York, 1999.
- Ranked 1st among Computer Engineering graduates of Bilkent University, 1994.
- Netas (Nortel Networks) Scholarship (merit based) during undergraduate study in academic year 1993-1994.
- TUBITAK BAYG Scholarship (merit based) during undergraduate study from 1991 to 1994.
- Haci Omer Sabanci Foundation (VAKSA) Scholarship during undergraduate study from 1989 to 1994.
- Bilkent University Scholarship (tuition+stipend) during undergraduate study from 1989 to 1994.
- Ranked 1st in TUBITAK (The Scientific and Technological Research Council of Turkey) National Chemistry Contest among high schools, Central Anatolia Region of Turkey, 1989.

SCHOLARLY PUBLICATIONS

• Publications in Refereed Journals

1. A Study of Localization Metrics: Evaluation of Position Errors in Wireless Sensor Networks. Computer Networks, Elsevier, 55 (15), pages 3562-3577, October 2011. (doi: 10.1016/j.comnet.2011.06.023). Hidayet Aksu, Demet Aksoy, Ibrahim Korpeoglu.
2. OLSR-Aware Channel Access Scheduling in Wireless Mesh Networks. Journal of Parallel and Distributed Computing, Elsevier, 71(9), pp.1225-1235, September 2011. (DOI: 10.1016/j.jpdc.2010.11.013). Miray Kas, Ibrahim Korpeoglu, Ezhan Karasan.
3. Sleep Scheduling with Expected Common Coverage in Wireless Sensor Networks. ACM Wireless Networks Journal, Springer, Volume 17, Issue 1, pages 19-40, 2011. (DOI: 10.1007/s11276-010-0262-2.). Eyuphan Bulut, Ibrahim Korpeoglu.
4. Utilization-Based Dynamic Scheduling Algorithm for Wireless Mesh Networks, EURASIP Journal on Wireless Communications, Vol. 2010, Article ID 312828, 11 pages, October 2010 (doi:10.1155/2010/312828), Miray Kas, Ibrahim Korpeoglu, Ezhan Karasan.
5. Computing Localized Power Efficient Data Aggregation Trees for Sensor, IEEE Transactions on Parallel and Distributed Systems, 22 (3), pages: 489-500, March 2011 (DOI: 10.1109/TPDS.2010.68). Huseyin Ozgur Tan, Ibrahim Korpeoglu, Ivan Stojmenovic.
6. Distributed and Location Based Multicast Routing Algorithms for Wireless Sensor Networks. EURASIP Journal on Wireless Communications and Networking. Volume 2009, Article ID 697373, 14 pages, doi:10.1155/2009/697373, 2009. Hakki Bagci and Ibrahim Korpeoglu.
7. A General Purpose Simulator for Unstructured P2P Networks and a Sample Application, Journal of Defense Sciences, Vol.8, No.2, November 2009. M. Karakaya, I. Korpeoglu, O. Ulusoy.
8. A Survey on Scheduling in IEEE 802.16 Mesh Mode. IEEE Communications Surveys and Tutorials, Vol.12, No.2, April 2010. Miray Kas, Burcu Yargicoglu, Ibrahim Korpeoglu, Ezhan Karasan.
9. Free Riding in Peer-to-Peer Networks. IEEE Internet Computing, Vol. 13, No. 2, March/April 2009, pages 92-98. Murat Karakaya, Ibrahim Korpeoglu, Ozgur Ulusoy.
10. Reducing Query Overhead Through Route Learning in Unstructured Peer-to-Peer Networks. Journal of Network and Computer Applications, Elsevier, Vol. 32, No. 3, May 2009, pages 550-567. Selim Ciraci, Ibrahim Korpeoglu, Ozgur Ulusoy.
11. A Peer-to-Peer File Search and Download Protocol for Wireless Ad Hoc Networks. Computer Communications, Elsevier, Vol. 32, No. 1, January 2009, pages 41-50. Hasan Sozer, Metin Tekkalmaz, Ibrahim Korpeoglu.

12. Counteracting Free Riding in Peer-To-Peer Networks. Computer Networks, Elsevier, Vol. 52, No. 3, 2008, pages 675-694. Murat Karakaya, Ibrahim Korpeoglu, Ozgur Ulusoy.
13. A Connection Management Protocol for Promoting Cooperation in Peer-to-Peer Networks. Computer Communications, Elsevier, Vol. 31, No. 2, February 2008, pages 240-256. Murat Karakaya, Ibrahim Korpeoglu, Ozgur Ulusoy.
14. Distributed Construction and Maintenance of Bandwidth and Energy Efficient Bluetooth Scatternets. IEEE Transactions on Parallel and Distributed Systems, Vol. 17, No. 9, September 2006, pages 963-974. Metin Tekkalmaz, Hasan Sozer, Ibrahim Korpeoglu.
15. A Comparison of Epidemic Algorithms in Wireless Sensor Networks. Computer Communications, Elsevier, Vol. 29, No. 13, August 2006, pages 2450-2557. Mert Akdere, Cagatay Bilgin, Ozan Gerdaneri, Ibrahim Korpeoglu, Ozgur Ulusoy, Ugur Cetintemel.
16. Power Efficient Data Gathering and Aggregation in Wireless Sensor Networks. ACM SIGMOD Record, Vol. 32, No. 4, December 2003, pages 66-71. Huseyin Ozgur Tan, Ibrahim Korpeoglu.
17. WiSAP: A Wireless Personal Access Network for Handheld Computing Devices. IEEE Wireless Communications (formerly IEEE Personal Communications), Vol. 5, No. 6, December 1998, pages 18-25. Chatschik Bisdikian, Pravin Bhagwat, Brian P. Gaucher, Frank J. Janiello, Ibrahim Korpeoglu, Mahmoud Naghshineh, Puneet Pandoh.
18. Reducing Router-Crossings in a Mobile Intranet. Journal of Network and Systems Management, Springer, Vol. 6, No. 1, pages 15-30, March 1998. Ibrahim Korpeoglu, Rohit Dube, Satish K. Tripathi.
19. Distributed Interactive Video System Design and Analysis. IEEE Communications, Vol. 35, No. 3, March 1997, pages 100-108. Tsong-Ho Wu, Ibrahim Korpeoglu, Bo-Chao Cheng.

- **Publications in Refereed Conferences**

1. Supporting QoS Traffic at the Network Layer in Multi-hop Wireless Mobile Networks, The 7th International Wireless Communications and Mobile Computing Conference (IEEE IWCMC 2011), July 5-8, 2011, Istanbul, Turkey. Gokce Gorbil, Ibrahim Korpeoglu.
2. Algorithms for Sink Mobility in Wireless Sensor Networks to Improve Network Lifetime, 26th International Symposium on Computer and Information Sciences (ISCIS), 26-28 September 2011, London, UK. Metin Koc, Ibrahim Korpeoglu.
3. Power-Source-Aware Backbone Routing in Wireless Sensor Networks, IEEE International Conference on Systems (IEEE ICCS'2010), 17-19 November, 2010, Singapore. Metin Tekkalmaz, Ibrahim Korpeoglu.
4. OLSR-Aware Distributed Channel Access Scheduling for Wireless Mesh Networks. IEEE Wireless Communications and Networking Conference (IEEE WCNC '09), 5-8 April 2009, Budapest, Hungary. Miray Kas, Ibrahim Korpeoglu, Ezhan Karasan.
5. A Path-Quality-Aware Peer-to-Peer File Sharing Protocol for Mobile Ad-hoc Networks: Wi-Share. 24th International Symposium on Computer and Information Sciences (ISCIS), September 14-16, 2009. Efe Karasabun, Dogus Ertemur, Seyhun Sariyildiz, Metin Tekkalmaz, Ibrahim Korpeoglu.
6. Rule-Based In-Network Processing in Wireless Sensor Networks. IEEE Multi-conference on Systems and Control, July 8-10, 2009, Saint Petersburg, Russia. pages 660-665. Ozgur Sanli, Ibrahim Korpeoglu, Adnan Yazici.
7. Bluetooth or 802.15.4 Technologies to Optimise Lifetime of Wireless Sensor Networks: Numerical Comparison Under a Common Framework. International Workshop on Wireless Networks: Communication, Cooperation and Competition (WNC3), April 4, 2008, Berlin, Germany. Chiara Buratti, Ibrahim Korpeoglu, Ezhan Karasan, Roberto Verdone.
8. PocketDrive: A System for Mobile Control of Desktop PC and Its Applications Using PDAs. International Symposium on Computer and Information Sciences (ISCIS), November 2007, Ankara, Turkey. Yenel Yildirim, Ibrahim Korpeoglu.

9. A Distributed and Dynamic Data Gathering Protocol for Sensor Networks. In Proceedings of The IEEE 21st International Conference on Advanced Information Networking and Applications (AINA-07), May 21-23, 2007, Niagara Falls, Canada, pages 220-227. Huseyin Ozgur Tan, Ibrahim Korpeoglu, Ivan Stojmenovic.
10. DSSP: A Dynamic Sleep Scheduling Protocol for Prolonging the Lifetime of Wireless Sensor Networks. In Proceedings of Third IEEE International Workshop on Heterogeneous Wireless Networks, held in conjunction with AINA'2007, May 21-23, 2007, Niagara Falls, Canada, Vol. 2, pages: 725-730. Eyuphan Bulut, Ibrahim Korpeoglu.
11. A New Approach for Information Processing in Wireless Sensor Network Database Applications. IEEE International Workshop on Networking Meets Databases, (NetDB'06), April, 2006, Atlanta, Georgia. Burcin Bostan Korpeoglu, Adnan Yazici, Ibrahim Korpeoglu, Roy George.
12. Bluetooth Broadcasting Performance: Reliability and Throughput. Lecture Notes in Computer Science, Vol. 3992, pages 996-999, Eds: Vassil N. Alexandrov, Geert Dick van Albada, Peter M.A. Sloot, Jack Dongarra, Springer-Verlag, May 2006. Kaan Dogan, Guray Gurel, Ahmet Kerim Kamci, Ibrahim Korpeoglu.
13. Characterizing Gnutella Network Properties for Peer-to-Peer Network Simulation. Lecture Notes in Computer Science, Vol. 3733, pages 274-283, Springer-Verlag, 2005. Selim Ciraci, Ibrahim Korpeoglu, Ozgur Ulusoy.
14. Wireless ATA: A New Data Transport Protocol for Wireless Storage. The Fourth International Workshop on Wireless Information Systems (WIS 2005), May 24-25, 2005, Miami, USA. Serdar Ozler and Ibrahim Korpeoglu.
15. Distributed Construction and Maintenance of Bandwidth-Efficient Bluetooth Scatternets. IEEE International Conference on Communications (ICC 2005), May 2005, Seoul, South Korea. Metin Tekkalmaz, Hasan Sozer, Ibrahim Korpeoglu.
16. An Energy-Efficient Scatternet Formation Algorithm for Bluetooth-Based Sensor Networks. 2nd European Workshop on Wireless Sensor Networks, 2005, Istanbul, Turkey. Sain Saginbekov and Ibrahim Korpeoglu.
17. A Distributed and Measurement-Based Framework Against Free Riding in Peer-to-Peer Networks. The Fourth IEEE International Conference on Peer-to-Peer Computing, 25-27 August 2004, Zurich, Switzerland. Murat Karakaya, Ibrahim Korpeoglu, Ozgur Ulusoy.
18. A Peer-to-Peer File Sharing System for Wireless Ad-Hoc Networks. The Third Annual Mediterranean Ad Hoc Networking Workshop (Med-Hoc-Net 2004), June 27-30, 2004, Bodrum, Turkey. Hasan Sozer, Metin Tekkalmaz, Ibrahim Korpeoglu.
19. BlueSky: A Cordless Dialup Networking for Palmtop Computers. The ACM/IEEE Annual International Conference on Mobile Computing and Networking (MOBICOM '99), pages 69-76, August 1999, Seattle, Washington, USA. Pravin Bhagwat, Chatschik Bisdikian, Ibrahim Korpeoglu, Mahmoud Naghshineh, Satish Tripathi.
20. Multiplexed Serial Wireless Connectivity for Palmtop Computers. DIMACS Workshop on Mobile Networks and Computing, March 25-27 1999, Rutgers University, NJ, USA. pages 171-176. Ibrahim Korpeoglu, Pravin Bhagwat, Chatschik Bisdikian, Mahmoud Naghshineh.
21. System Design Issues for Low-Power, Low-Cost Short Range Wireless Networking. IEEE International Conference on Personal Wireless Communications (ICPWC'99), pages 264-268, February 17-19, 1999. Jaipur, India. pages 264-268. Pravin Bhagwat, Chatschik Bisdikian, Ibrahim Korpeoglu, Arvind Krishna, Mahmoud Naghshineh.
22. Estimating End-to-end Cell Delay Variation in ATM Networks. International Conference on Communications Technologies (ICCT'98), October 22-24, 1998, Vol. 1, pages 472-483, Beijing, China. Ibrahim Korpeoglu, Xiaqiang Chen, Satish K. Tripathi.

- **Chapters in Books or Monographs.**

1. Peer-to-Peer Overlay in Mobile Ad-hoc Networks in Handbook of Peer-to-Peer Networking, (Edited by X. Shen and H. Yu and J. Buford and M. Akon). Place of publication: Springer, July, 2009. M. C. Castro, A. J. Kessler, C.-F. Chiasserini, C. Casetti, I. Korpeoglu.

2. Energy Aware Routing in Sensor Networks and Configuration. (Edited by N.P. Mahalik). Place of publication: Springer, 2006. I. Korpeoglu.

- **Contributions to Standards**

- Need for a Better CDV Accumulation Method, ATM Forum Contribution, 96-1369, 1996. Ibrahim Korpeoglu, Xiaqiang Chen, Dipak Kataria.

- **Edited Books**

Lecture Notes in Computer Science Volume.3280: Proceedings of Computer and Information Sciences – ISCIS 2004 19th International Symposium. Place of publication: Springer Verlag, 2004. Author(s). Cevdet Aykanat, Tugrul Dayar, Ibrahim Korpeoglu.

- **Ph.D. Dissertation**

Wireless and Mobile Networking Support for Palmtop and Laptop Computers, September/2000, Supervisor: Prof. Satish Tripathi, Computer Science Department, University of Maryland at College Park.

PATENTS

1. Method for Seamless Networking Support for Mobile Devices Using Serial Communications, USA, *Patent Number US 6,651,105*, November 18, 2003. Pravin Bhagwat, Chatschik Bisdikian, Ibrahim Korpeoglu, Mahmoud Naghshineh.
2. Providing Shared-Medium Multiple Access Capability in Point-to-Point Communication, USA, *Patent number US 6,721,805*, April 13, 2004. Pravin Bhagwat, Chatschik Bisdikian, Frank J. Janniello, Ibrahim Korpeoglu, Mahmoud Naghshineh, Puneet Pandoh.
3. System and method for collaborative multi-device web browsing, European Patent Office, *Patent number: EP1132847*, September 12, 2001; and Japanese Patent Office, *Patent Number JP2001297029*, October 26, 2001. Richard Y. Han, Ibrahim Korpeoglu, Mahmoud Naghshineh, Veronique Perret.

GRANTS (Projects Involved)

- **As Principal Investigator (Coordinator)**

1. *Principal Investigator*, Project: Supporting Real-time Traffic in Wireless Ad Hoc and Sensor Networks, Funded by TUBITAK (The Scientific and Technological Research Council of Turkey) (The NSF of Turkey), Contract Number: 104E028, Young Researcher Career Award, 2005-2009. (Amount of funding: 172,000 TL ≈ 115,000 USD).
2. *Principal Investigator*, Project: Bluetooth Scatternet Construction and Bluetooth Applications, Funded by TUBITAK (The Scientific and Technological Research Council of Turkey), Contract Number: 103E014, 2003-2005. (Amount of funding: 7,000 USD).
3. *Co-Principal Investigator*, Project: Wireless Networking Curriculum Enhancement, Funded by Intel Corporation, 2006. (Amount of donation: 60,000 USD).
4. *Principal Investigator*, Project: Network Middleware for Environmental Monitoring and Control with Wireless Ad hoc, Mesh and Sensor Networks, Funded by IBM Corporation, 2009.

- **As Researcher (Not Coordinator)**

1. *Participant Researcher*, Project Title: Network of Excellence in Wireless Communications++, Sponsored by European Commission FP7 Programme ICT, Contract Number: 216715, 2005-2008. (Total project budget: ~4,964,000 EURO. Shared by all institutions and researchers participating in the project.)
2. *Participant Researcher*, Project Title: Network of Excellence in Wireless Communications (NEWCOM), Funded by European Commission FP6 Framework IST, Contract Number: 507325, 2008-2011. (Total project budget: ~4,000,000 EURO. Shared by all institutions and researchers participating in the project.)

3. *Participant Researcher*, Project Title: Fire Detection and Management through a Multi-Sensor Network for the Protection of Cultural Heritage Areas from the Risk of Fire and Extreme Weather Conditions, Funded by European Commission FP7 Programme ENV, Contract Number: 244088, 2009-2012. (Total project budget: 2,697,000 EURO. Shared by all institutions and researchers participating in the project.)
4. *Participant Researcher*, BTT-Türkiye – New Information Society Technologies for Turkey, Funded by TUBITAK (The Scientific and Technological Research Council of Turkey), Contract Number: 105E065, 2005-2008. (Total project budget: ~350,000 USD. Shared by all researchers participating in the project.)

CURRENT RESEARCH INTEREST(S)

- Wireless networks
- Peer-to-peer networks
- Distributed systems and algorithms

GRADUATE STUDENT SUPERVISION

Graduated Students (Completed Supervised Theses)

- **Graduated Ph.D. Students**

1. Huseyin Ozgur Tan, Ph.D., *Routing and Scheduling Approaches for Energy-Efficient Data Gathering in Wireless Sensor Networks*. Department of Computer Engineering, Bilkent University. Graduation Date: September 7, 2011.
2. Ozgur Sanli, Ph.D., (co-supervised with Dr. Adnan Yazici) *Distributed Information Processing for Event-Driven Wireless Sensor Network Applications*, Department of Computer Engineering, Middle East Technical University METU. Graduated Date: June 20, 2011.
3. Murat Karakaya, Ph.D., (co-supervised with Dr. Ozgur Ulusoy), *Counteracting Free Riding in Pure Peer-to-Peer Networks*, Department of Computer Engineering, Bilkent University, Graduation Date: March 25, 2008.

- **Graduated M.S. Students (All with Thesis)**

1. Cem Mergenci, M.S., *Routing in Delay Tolerant Networks with Periodic Connections*, Department of Computer Engineering, Bilkent University, August 26, 2010.
2. Burcu Yargicoglu, *Bandwidth-aware and Energy-efficient Stream Multicasting Protocols for Wireless Multimedia Sensor Networks*, Department of Computer Engineering, Bilkent University, August 31, 2010.
3. Yunus Emre Aslan, M.S., *A Framework for the Use of Wireless Sensor Networks in Forest Fire Detection and Monitoring*, Department of Computer Engineering, Bilkent University, August 31, 2010. (co-supervised with Dr. Ozgur Ulusoy).
4. Mustafa Kalkan, M.S., *Active Set Partitioning Scheme for Extending the Lifetime of Large Wireless Sensor Networks*, Department of Computer Engineering, Bilkent University, January 21, 2010. (co-supervised with Dr. Cevdet Aynakat).
5. Efe Karasabun, M.S., *Active Node Determination For Correlated Data Gathering in Wireless Sensor Networks*, Department of Computer Engineering, Bilkent University, July 31, 2009. (co-supervised with Dr. Cevdet Aynakat).
6. Fatih Melih Ozbekoglu, M.S., *Data Dissemination Strategies for Mobile Peer-to-Peer Information Systems with Applications to Healthcare*, Department of Computer Engineering, Bilkent University, July 30, 2009. (co-supervised with Dr. Ozgur Ulusoy).
7. Miray Kas, M.S., *OLSR-Aware Cross-Layer Channel Access Scheduling in Wireless Mesh Networks*, Department of Computer Engineering, Bilkent University, June 30, 2009. (co-supervised with Dr. Ezhan Karasan).

8. Emine Busra Celikkaya, M.S., *Real-time Routing with Priority Scheduling and Power Adjustment in Wireless Sensor Networks*, Department of Computer Engineering, Bilkent University, August 7, 2008.
9. Berk Berker, M.S., *E-Sense: A Wireless Sensor Network Testbed and System for Monitoring Inbuilding Environments*, Department of Computer Engineering, Bilkent University, August 7, 2008.
10. Ahmet Murat Ozdemiray, M.S., *Channel Assignment and Routing for Multi-radio Wireless Mesh Networks*, Department of Computer Engineering, Bilkent University, September 1, 2008.
11. Metin Koc, M.S., *Algorithms for Sink Mobility in Wireless Sensor Networks to Improve Network Lifetime*, Department of Computer Engineering, Bilkent University, August 7, 2008.
12. Hidayet Aksu, M.S., *An Inquiry in to the Metrics for Evaluation of Localization Algorithms in Wireless Ad hoc and Sensor Networks*, Department of Computer Engineering, Bilkent University, January 28, 2008.
13. Gokce Gorbil, M.S., *A Link-State Based On-Demand Routing Protocol Supporting Real-Time Traffic for Wireless Mobile Ad Hoc Networks*, Department of Computer Engineering, Bilkent University, August 9, 2007.
14. Hakki Bagci, M.S., *Location Based Multicast Routing Algorithms for Wireless Sensor Networks*, Department of Computer Engineering, Bilkent University, August 9, 2007.
15. Eyuphan Bulut, M.S., *Connectivity and Coverage Preserving Sleep Scheduling Mechanism with Predictive Coverage and Multiple Mode Selections in Wireless Sensor Networks*, Department of Computer Engineering, Bilkent University, July 18, 2007.
16. Ahmet Kara, M.S., *Continuous Flow Routing (CFR): A Wireless Ad Hoc Routing Protocol for Supporting Multimedia Flows*, Department of Computer Engineering. Bilkent University. July 28, 2006.
17. Selim Ciraci, M.S., *Reducing Query Overhead Through Route Learning in Unstructured Peer-to-Peer Networks*, Department of Computer Engineering. Bilkent University, August 19, 2005. (co-supervised with Dr. Ozgur Ulusoy).
18. Hasan Sozer, M.S., *Peer-to-Peer File Sharing System for Wireless Ad-Hoc Networks*, Department of Computer Engineering, Bilkent University, August 31, 2004.
19. Metin Tekkalmaz, M.S., *Distributed Construction and Maintenance of Bandwidth-Efficient Bluetooth Scatternets*, Department of Computer Engineering, Bilkent University, August 31, 2004.
20. Sain Saginbekov, M.S., *Constructing Energy Efficient Bluetooth Scatternets for Wireless Sensor Networks*, Department of Computer Engineering, Bilkent University, August 23, 2004.
21. Huseyin Ozgur Tan, M.S., *Power Efficient Data Gathering and Aggregation in Wireless Sensor Networks*, Department of Computer Engineering, Bilkent University, January 20, 2004.
22. Tagmac Topal, M.S., *Constructing Efficient Bluetooth Scatternets*, Department of Computer Engineering, Bilkent University, January 19, 2004.

Current /Ongoing Graduate Students (Ongoing Supervised Theses)

- **Ph.D. Students**

1. Alper Rifat Ulucinar, Ph.D. Student, *Multi-radio Multi-channel Wireless Mesh Networks and Channel Assignment*, Department of Computer Engineering, Bilkent University, 9/2005-Present.
2. Metin Tekkalmaz, Ph.D. Student, *Wireless Mesh Networks and Routing*, Department of Computer Engineering, Bilkent University, 9/2005-Present.
3. Hidayet Aksu, Ph.D. Student, *Social Networks*, Department of Computer Engineering, Bilkent University, 2/2008-Present.

4. Metin Koc, Ph.D. Student, *Mobile Sensor Networks*, Department of Computer Engineering, Bilkent University, 9/2008-Present.
5. Cem Mergenci, Ph.D. Student, *Delay Tolerant Networks*, Department of Computer Engineering, Bilkent University, 9/2010-Present.
6. Kerem Başol, Ph.D. Student, *Thesis Topic TBD*, Department of Computer Engineering, Bilkent University, 9/2010-Present.
7. Firat Karatas, Ph.D. Student, *Thesis Topic TBD*, Department of Computer Engineering, Bilkent University. September 2011 - , expected graduation in 2015.

• **M.S. Students (All with Thesis)**

1. Caglar Terzi, M.S. Student, *Thesis Topic TBD*, Department of Computer Engineering, Bilkent University, 9/2010-Present.
2. Ozge Uyanik, M.S. Student, *Thesis Topic TBD*, Department of Computer Engineering, Bilkent University, 9/2010-Present.
3. Emin Yigit Koksall, M.S. Student, *Thesis Topic TBD*, Department of Computer Engineering, Bilkent University, 9/2010-Present.
4. Yakup Korkmaz, M.S. Student, *Thesis Topic TBD*, Department of Computer Engineering, Bilkent University, 9/2010-Present.

HONORS, SCHOLARLY AND PROFESSIONAL DUTIES AND ACHIEVEMENTS

- Chairman of IEEE Computer Society Turkey Chapter, 2009-2011.
- Secretary of IEEE Computer Society Turkey Chapter, 2004-2006.
- Program Co-Chair, ISCIS 2004, The 19th International Conference on Computer and Information Sciences, 27-29 October 2004, Antalya, Turkey.
- Publicity Chair, IEEE ICDE 2007, The 23rd IEEE International Conference on Data Engineering, April 15-20, 2007, Istanbul, Turkey.
- Poster Co-Chair, EWSN 2005, The Second European Workshop on Wireless Sensor Networks, January 31-February 2, 2005, Istanbul, Turkey.
- Referee and Inspector in TUBITAK-TEYDEB (The Scientific and Technological Research Council of Turkey - Technology Monitoring and Evaluation Board) Project Proposals, 2002 - Present.
- Panel member in various TUBITAK academic research project proposals evaluations, 2005-Present.
- Editorial Board Member, Adhoc & Sensor Wireless Networks Journal, Old City Publishing, 2009-Present.
- Member of Editorial Board, The Mediterranean Journal of Computers and Networks, 2005-Present.
- Member of Advisory Board, Trakya University Journal of Scientific Research, Series B Natural and Applied Sciences, 2003-2005.

PROGRAM COMMITTEE MEMBERSHIPS (in the following conferences)

1. IEEE ICC'12, IEEE International Conference on Communications, Wireless Networks Symposium, Ad Hoc and Sensor Networking Symposium, 10-15 June 2012, Ottawa, Canada.
2. IEEE WCNC 2012, IEEE Wireless Communications and Networking Conference, 1-4 April 2012, Paris, France.
3. Future Network and Mobile Summit 2012, 4-6 July 2012, Berlin, Germany.
4. IEEE ICCT 2012, 14th IEEE International Conference on Communication Technology, 9-11 November 2012, Chengdu, China.

5. iCOST'2012, The 2012 International Conference on Selected Topics in Mobile and Wireless Networking, July 2-4 2012, Avignon, France.
6. IEEE NAS 2012, The 7th IEEE International Conference on Networking, Architecture, and Storage, 28-30 June 2012, Xiamen, Fujian, China.
7. IEEE PIMRC'11, The 22nd IEEE Personal Indoor Mobile Radio Communications Conference, Local and Personal Area Networks Track, 11-14 September 2011, Toronto, Canada.
8. IEEE Globecom 2011, IEEE Global Communications Conference, Ad-hoc and Sensor Networking Symposium, 5-9 December 2011, Houston, Texas.
9. IEEE ICC 2011, IEEE International Conference on Communications, Wireless Networking Symposium, 5-9 June 2011, Kyoto, Japan.
10. IEEE ICC 2011, IEEE International Conference on Communications, Ad Hoc, Sensor and Mesh Networking Symposium, 5-9 June 2011, Kyoto, Japan.
11. IEEE LCN 2011, The 36th IEEE Conference on Local Computer Networks, 4-7 October 2011, Bonn, Germany.
12. iCOST'2011, The International Conference on Selected Topics in Mobile and Wireless Networking, 10-12 October 2011, Shanghai China.
13. IEEE DCOSS'11, 7th IEEE International Conference on Distributed Computing in Sensor Systems, June 27-29, 2011, Barcelona, Spain.
14. CollaborateCom2011, 7th International Conference on Collaborative Computing: Networking, Applications and Worksharing, 15-18 October 2011, Orlando, Florida USA.
15. AINA 2011, The 25th International Conference on Advanced Information Networking and Applications, Biopolis, Singapore, 22-25 March 2011, Biopolis, Singapore.
16. IEEE ICCT 2011, The 13th IEEE International Conference on Communication Technology, September 25-28, 2011, Jinan, China.
17. 3DTV-CON 2011, 5th 3DTV Conference, 16-18 May 2011, Antalya, Turkey.
18. Future Network & Mobile Summit 2011, 15-17 June 2011, Warsaw, Poland.
19. ISCIS 2011, 26th International Symposium on Computer and Information Sciences, September 26-28, 2011, London, UK.
20. IEEE WCNC 2011, IEEE Wireless Communications & Networking Conference, 28-31 March 2011, Cancun, Mexico.
21. ICSNC 2011, The Sixth International Conference on Systems and Networks Communications, 23-28 October 2011 - Barcelona, Spain.
22. DEXA 2011, 22nd International Conference on Database and Expert Systems Applications, August 29 – September 2, 2011, Toulouse, France.
23. International Workshop on Smart Grid Security and Communication, 26-28 May 2011, Busan, Korea.
24. CMC2011, 3rd International Conference on Communications and Mobile Computing, Computer and Network Security Symposium, April 18-20 2011, Qingdao, China.
25. WWASN2011, The Eighth Workshop on Wireless Ad hoc and Sensor Networks, 21-24 June 2011, Minneapolis, MN, USA.
26. COLLA 2011, The First International Conference on Advanced Collaborative Networks, Systems and Applications, 19-24 June 2011, Luxembourg.
27. ISCIS 2010, 25th International Symposium on Computer and Information Sciences, 22-24 September 2010, London, UK.

28. CollaborateCom 2010, 6th International Conference on Collaborative Computing: Networking, Applications and Worksharing, October 9-12, 2010, Chicago, Illinois, USA.
29. IEEE LCN 2010, The 36th IEEE Conference on Local Computer Networks (LCN), 4-7 October 2010, Bonn, Germany.
30. ICSNC 2010, The Fifth International Conference on Systems and Networks Communications, August 22-27, 2010, Nice, France.
31. IEEE ICC 2010, IEEE International Conference on Communications, Ad-Hoc, Sensor and Mesh Networking Symposium, and Wireless and Mobile Networking Symposium, 23-27 May 2010, Cape Town, South Africa.
32. IEEE WCNC 2010, IEEE Wireless Communications and Networking Conference, 18-21 April 2010, Sydney, Australia.
33. IEEE Globecom 2010, IEEE Global Communications Conference, Ad-hoc and Sensor Networking Symposium, 6-10 December 2010, Miami, Florida, USA.
34. IEEE AINA 2010, The 24th IEEE International Conference on Advanced Information Networking and Applications, 20-23 April 2010, Perth, Western Australia.
35. DEXA 2010, The 21th International Conference on Database and Expert Systems Applications, August 30-September 3, 2010, Bilbao, Spain.
36. Future Network and Mobile Summit 2010, 16-18 June 2010, Florence, Italy.
37. The Seventh Workshop on Wireless Ad hoc and Sensor Networks WWASN2010, June 21-25, 2010, Genoa, Italy
38. ISCN 2009, The 9th International Symposium on Computer Networks, December 11-12, 2009, Istanbul, Turkey.
39. CollaborateCom 2009, 5th International Conference on Collaborative Computing: Networking, Applications and Worksharing, 11-14 November 2009, Crystal City, Washington D.C., USA.
40. IEEE LCN 2009, The 34th IEEE Conference on Local Computer Networks, 20-23 October 2009, Zurich, Switzerland.
41. ISCIS 2009, 24th International Symposium on Computer and Information Sciences, September 14-16, 2009, Cyprus.
42. ICT Mobile Summit, 10-12 June 2009, Santander, Spain.
43. AP2PS 2009, The First International Conference on Advances in P2P Systems, October 11-16, 2009, Malta.
44. DEXA 2009, The 20th International Conference on Database and Expert Systems Applications, 31 August-4 September 2009, Linz, Austria.
45. WWASN 2009, Sixth Workshop on Wireless Ad hoc and Sensor Networks, June 22, 2009, Montreal, Quebec, Canada.
46. ICSNC 2009, The Fourth International Conference on Systems and Networks Communications, September 20-25, 2009, Porto, Portugal.
47. M4D, First International Conference on Mobile Communication Technology For Development, 11-12 December, 2008, Karlstad, Sweden.
48. IEEE CCECE Communications and Networking Symposium, May 3-6 2009, St. John's, Newfoundland, Canada.
49. IEEE AINA 2009, The IEEE 23rd International Conference on Advanced Information Networking and Applications, May 2EU009, Bradford, UK.

50. CollaborateCom 2008, The 4th International Conference on Collaborative Computing: Networking, Applications and Worksharing, November 13-16, 2008, Orlando, Florida, USA.
51. IEEE ICC 2009, IEEE International Conference on Communications, Wireless Networking Symposium, and Ad Hoc and Sensor Networking Symposium, June 14-18, 2009, Dresden, Germany.
52. IEEE LCN 2008, The 33rd IEEE Conference on Local Computer Networks, 20-23 October 2008, Montreal, Canada.
53. IEEE PIMRC 2008, IEEE 19th International Symposium on Personal, Indoor and Mobile Radio Communications, 15-18 September 2008, Cannes, France.
54. ISCN 2008, International Symposium on Computer Networks, June 18-20, 2008, Istanbul, Turkey.
55. WINSYS 2008, International Conference on Wireless Information Networking and Systems, July 26-29, 2008, Portugal.
56. WWASN 2008, The Fifth Workshop on Wireless Ad hoc and Sensor Networks, June 17-20, 2008, Beijing, China.
57. IEEE ICC 2008, IEEE International Conference on Communications, 19-23 May 2008, Beijing, China.
58. MSN 2007, The 3rd International Conference on Mobile Adhoc and Sensor Networks, 12-14 December 2007, Beijing, China.
59. IEEE AINA 2008, The IEEE 22nd International Conference on Advanced Information Networking and Applications, March 25-28, 2008, Gino-Wan, Okinawa, Japan.
60. IEEE LCN 2007, The 32th IEEE Conference on Local Computer Networks, 15-18 October 2007, Dublin, Ireland.
61. IEEE Globecom 2007, IEEE Global Communications Conference, 26-30 November 2007, Washington DC, USA.
62. WRECOM 2007, The First IEEE International Conference on Wireless Rural and Emergency Communications, September 2007, Rome, Italy.
63. CollaborateCom 2007, The 3rd International Conference on Collaborative Computing: Networking, Applications and Worksharing, November 12-15, 2007, White Plains, New York, USA.
64. ISCIS 2007, The 22 International Symposium on Computer and Information Sciences, November 7-9 2007, Ankara, Turkey.
65. ICES 2007, 3rd International Conference on Embedded Software and Systems, May 14-16, 2007, Daegu, South Korea.
66. IWASN 2007, Second International Workshop on Advances in Wireless Sensor Networks, August 6-10, 2007, Philadelphia, PA, USA.
67. WINSYS 2007, International Conference on Wireless Information Networks and Systems, 28-31 July 2007, Barcelona, Spain.
68. WWASN 2007, The Fourth Workshop on Wireless Ad hoc and Sensor Networks, June 25, 2007, Toronto, ON, Canada.
69. BodyNets 2007, First International Conference on Body Area Networks, May 14-17, 2007, Florence, Italy.
70. IEEE AINA 2007, The IEEE 21st International Conference on Advanced Information Networking and Applications, May 21-23 2007, Niagara Falls, Canada.

71. IEEE ICPS 2007, IEEE International Conference on Pervasive Services, July 2007, Istanbul, Turkey.
72. IEEE ICC 2007, IEEE International Conference on Communications, Wireless Ad Hoc and Sensor Networks Symposium, and Wireless Communications Symposium, 24-28 June 2007, Glasgow, Scotland, UK.
73. MSN 2006, The 2nd International Conference on Mobile Ad-hoc and Sensor Networks, 13-15 December 2006, Hong Kong, China.
74. The 1st International Workshop on Advances in Sensor Networks , July 17-21, 2006, San Jose, California, USA.
75. IEEE ICDE 2007, The 23rd IEEE International Conference on Data Engineering, April 2007, Istanbul, Turkey.
76. ISCIS 2006, International Symposium on Computer and Information Sciences, November 2006, Istanbul, Turkey.
77. IEEE ICC 2006, IEEE International Conference on Communications, Wireless Ad Hoc and Sensor Networks Symposium, 11-15 June 2006, Istanbul, Turkey.
78. IEEE Globecom 2006, IEEE Global Communications Conference, Symposium on Wireless Ad Hoc and Sensor Networks, 27 November-1 December 2006, San Francisco, USA.
79. IEEE LCN 2006, IEEE 31th Conference on Local Computer Networks, November 14-16 2006, Florida, USA.
80. ISSSTA 2006, IEEE 9th International Symposium on Spread Spectrum Techniques and Applications, August 28-31, 2006, Amazon, Brazil.
81. ISCIS 2005, International Symposium on Computer and Information Sciences, October 26-28, 2005, Istanbul, Turkey.
82. IEEE LCN 2005, The 30th IEEE Conference on Local Computer Networks, 15-17 November 2005, Sydney, Australia.
83. MobiDE 2005, ACM Workshop on Data Engineering for Wireless Mobile Access, 2005, Baltimore, Maryland.
84. IEEE Infocom 2004, The 23rd Conference of the IEEE Communications Society, March 7-11 2004, Hong Kong, China.

INVITED LECTURES AND INVITED TALKS

1. "Computing Localized Power-Efficient Data Aggregation Trees for Wireless Sensor Networks" , Koc University, Istanbul, March 24, 2010.
2. "Energy Energy Efficient Data Gathering (Routing) in Wireless Sensor Networks", Industrial Engineering Department, Bilkent University, Ankara, March 12, 2010.
3. "Kablosuz Ağlar ve Kablosuz Örgü Ağları", EMO Konferansı, Ankara, 23 Aralık 2009.
4. "Teaching Operating Systems Courses Using Linux". First Open Software Conference, Middle East Technical University, Ankara, Turkey. May 5, 2007. (Turkish).
5. "Peer-to-Peer Networks, Free Riding, and Counter-Mechanisms". Electrical and Electronics Engineering Department, Bilkent University. October 19, 2004.
6. "An Introduction to Wireless Sensor Networks and Routing". Electrical and Electronics Engineering Department, Bilkent University. March 17, 2004.
7. "Web Based Technologies". Jandarma Genel Komutanligi, Ankara. 4 Mart 2004. (Turkish)
8. "Short-range Wireless Technologies: Applications, Architecture, and Protocols", Middle East Technical University, Ankara, Turkey. March 12, 2003.

9. "Short-range Wireless Technologies: Applications, Architecture, and Protocols". Sabanci University, Istanbul, Turkey. March 14, 2003.
10. "Bluetooth Wireless Technology", ICT Telecom Eurasia Conference, Istanbul, Turkey. April 17, 2003. (Turkish)
11. "BlueSky: A Wireless Access Network for Palmtop Computers". Electrical and Electronics Engineering Department, Bilkent University. May 30, 2003.

TEACHING

- **Graduate Courses:**

- CS 515 Mobile and Wireless Networking
(Fall2002, Fall2003, Fall2004, Fall2008, Fall2009)
- CS 514 Wireless Ad hoc and Sensor Networks
(Fall2005, Fall2006, Fall2007)
- Coordinating Committee Member, CS 590/690 - (Advanced) Research Topics-Seminar Course
(Spring2004, Fall2006, Fall2009, Spring2010)

- **Undergraduate Courses:**

- CS 342 Operating Systems
(Spring2003, Spring2004, Spring2005, Spring2006, Spring2007, Spring2008, Spring2009, Spring2010, Spring2011, Fall2011)
- CS421 Computer Networks
(Fall2010, Fall2011)
- CS 422 Wireless Networking Technologies and Applications
(Spring2007, Spring2008, Spring2009, Spring 2010, Spring2011)
- CS 424 Computer Network Programming
(Spring2002)
- CS 476 Automata Theory and Formal Languages
(Spring2002)
- CS 202 Fundamental Structures of Computer Science II
(Spring 2003)
- CS 223 Digital Design
(Fall2008)

- **Independent Study Supervised:**

- **Senior Projects Supervised**

(as part of CS491-CS492 Senior Project Design Course; spanning two semesters)

1. H.G.Ozsema, A.R.Duran, I. M.Ozcelik, M.O.Karsavuran, "Target Tracking by Using Seismic Sensors", 2011-2012.
2. Aysegul Onat, Hakan Sozer, Osman Oguz Bayraktar, Aras Can Akin. "Smashed: a mobile multi-player arcade style game". 2010-2011.
3. Gizem Akman, Gokce Can Cuceoglu, Mert Ozdal, Naz Saltoglu, Baris Arman Tabak. "Fire and Disaster Detection and Recovery with Sensor Networks". 2009-2010.
4. Besim Namik Avci, Eren Kuzucu, Ebrahim Rajabzadeh, Cagri Kahraman. "Mesh Node and Network Management and Control", 2009-2010.
5. Puren Guler, Abdulkadir Posul, Murat Yurdakul, Hilal Karslioglu. "BilSurvey: Bilkent Online Survey System, Enhancements". 2008-2009.
6. Muhsin Can Orhan, Mehmet Ozcelik, Gorkem Yakin, Utku Ozan Yilmaz. "Mobile P2P Multimedia Streaming". 2008-2009.

7. Abdurrahman Altintop, Ali Bastepe, Mustafa Kabak, Enver, Kayaaslan, Ridvan Tekdogan. "Wireless Sensor Networks - Real time applications and supporting protocols". 2006-2007.
8. Omer Kerem Beygo, Cihan Bakioglu, Fatih Keles. "BilSurvey: Bilkent Online Survey System". 2006-2007. (*Received Best Senior Project Award in the Department of Computer Engineering, Bilkent University*).
9. Emre Can Kilinc, Harun Alasar, Aydin Sipit, Kemal Can Yalcinkaya. "Mobile Tracking System - Pocket PCs / Mobile Phones". 2006-2007.
10. Yunus Emre Aslan, Fatih Deniz, Tuncay Uzun, Erkay Uzun, Osman Osmanli. "Wireless Sensor Networks". 2006-2007.
11. Mustafa Yasir Arslan, Fatma Sirin Koru, Yuksel Ulgen, Arda Atali. "Wireless Sensor Networks - Location Tracking". 2006-2007.
12. Birgi Tamersoy, Sarp Arda Coskun, Nazli Dokuzoglu, Alper Kokmen. "Linux Driver Project". 2006-2007.
13. Ahmet Erhan Nergiz, Serkan Uzunbaz, Can Cermikli, Hakan Kaleli. "Wireless Sensor Networks - Real Time Protocols". 2006-2007.
14. Efe Karasabun, Dogus Ertemur, Rustu Seyhun Sariyildiz. "Developing a P2P application/system with streaming capabilities to run over wireless ad hoc networks". 2006-2007.
15. Ibrahim Aygul, Murat Narmanli, Ayse Berrak Guldogan, Nuray Dedeoglu, Zeynep Karaman. "Map2Day: Wireless and GIS-based Dynamic Information Access System for Cities". 2005-2006.
16. Tuba Erbas, Serdar Kasirga, Osman Kucuksonmez, Arzu Sozen, Pinar Yildiz. "Mobile Logistic Management via GRPS and WLAN Services". 2005-2006.
17. Nihan Akin, Fatih Melih Ozbekoglu, Mehmet Baran Cirpici, Osman Erdinc Uluturk, Ekrem Kucuk. "Wireless Remote Control and Monitoring via PDAs". 2005-2006.
18. Meltem Celebi, Emine Busra Celikkaya, Hayrettin Gurkok, Fatma Sutcu. "Ad Hoc Peer-to-Peer File Sharing System for Pocket PCs.". 2005-2006.
19. Ozgur Baglioglu, Fatih Kaya, Sureyya Tarkan, Erkan Uyar. "Design and Development of a Wireless Sensor Network Application". 2005-2006.
20. Ekrem Kaplan, Hakan Bagci, Irfan Kurtulmuslar, Mehmet Sanli, Seyit Aydin Oztaban. "Multi-Hop Communication Capable Wireless Ad Hoc Network Game for PDAs". 2005-2006.
21. Erkan Okuyan, Emrah Bayraktaroglu, Suleyman Tuncer Erdogan, Berk Berker, Mustafa Omer Kilavuz. "Real-Time Multimedia Steaming Over Wireless Ad Hoc Networks". 2005-2006.
22. Yenel Yildirim, Muhammet Yildiz, Bora Ergun, Erman Ucar. "BoSS: Bilkent Online Survey System".
23. Cem Boyaci, Ahmet Murat Ozdemiray, Eyuphan Bulut. "Wireless Multi-hop Ad Hoc Network Middleware and Application". 2004-2005.
24. Fuat Ertunc, Gizem Okutan, Mustafa Onur Ozorhan. "Mobile Accessible City Public Transportation Guiding System". 2004-2005.
25. Murat Acikgoz, Mustafa Canim, Osman Tataroglu. "Indoor Location Based Services Support Infrastructure and Application for Bilkent". 2004-2005.
26. Mert Akdere, Cagatay Bilgin, Ozan Gerdaneri. "Improving Reliability of Data Dissemination in Sensor Networks Through Epidemic Algorithms". 2004-2005.
27. Rifat Aras, Mehmet Zahit Ates, Barkin Basarankut, Mustafa Cantekin, Cagri Calpur. "Outdoor and GPS Based Location Services in Bilkent". 2004-2005.
28. Gunseli Akpınar, Ayse Kolat, Ozlem Sipahi. "Simulation of P2P Protocols". 2004-2005.
29. Selen Pehlivan, Burcu Aysen Urgen, Burcu Kaplanlioglu. "Simulation of a P2P File Sharing System for Wireless Ad Hoc Networks". 2003-2004.

30. Erbil Kucukahmet, Serkan Ulger, Tahsin Ertugrul Yaprak. "A Wireless Pocket PC Application for Pharmacies". 2003-2004.
31. Ebru Acar, Mehmet Ekin Askar, "BlueDoc: Bluetooth Enabled Hospital Management System". 2003-2004.
32. Sinem Zeynep Bastas, Turkay Gulsoy. "Mobile Access Mall Helper System". 2003-2004.
33. Hamza Kaya, Serkan Coban. "Wireless Multimedia Hospital Application". 2003-2004.
34. Mesut Ucar, Eymen Atalay. "Wireless Enabled Shopping Center Guidance System". 2003-2004.
35. Zahir Tezcan, Burhan Karagoz. "WICOMS: Wireless Course Management System". 2003-2004.
36. Hilal Zehra Celep, Derya Ozkan. "Mobile Transportation Management System". 2003-2004.
37. Said Kalkan, Cuneyt Yediyildiz. "Mobile Event Alerting System". 2003-2004.
38. Unal Tatar, Hakki Bagci. "A Peer2Peer Application for Wireless Ad-Hoc Networks". 2003-2004.
39. Tugberk Kara, Ugur Debrel. "Wireless Presentation Helper". 2003-2004.
40. Yasin Uzun, Fatih Akdag. "A Mobile Ad Hoc Distributed Game". 2003-2004.
41. Hasan Metin Aktulga, Murat Ak, Turgay Yilmaz. "Smart Digital Map of Ankara". 2003-2004.
42. Serkan Kose, Mehmet Can Akpınar. "Wireless Audio and Video Transport over Bluetooth for PDAs". 2003-2004.
43. Elvan Guney, Duygu Gozde Nasuhbeyoglu, Elif Gokce Kundakci. "Web based Medical Atlas of Dermatology". 2003-2004.
44. Tankut Baris Aktemur, Selcuk Aya, Ali Cakmak, Emre Keskin, Eren Aydin. "Service Creation Environment for Mobile Cellular Systems", 2002-2003.
45. Ahmet Kara, Doruk Bozagac, Erhan Okuyan. "A File Access System for Mobile Phones". 2002-2003.
46. Deniz Erkek, Dilek Ersoz. "Earthquake Management System". 2002-2003.
47. Hakan Onur. "OTSR - Online Order Tracking System for Restaurants". 2002-2003.
48. Hamide Sebnem Koken, Ozgur Cuhadoroglu. "A Multiparty Network Game". 2002-2003.
49. Mehmet Baysan, Mehmet Sinan Esgin, Ibrahim Demir. "WAP Based Course Registration and Status Checking System". 2002-2003.
50. Anil Oztuncer, Ugurcan Karayel, Gorken Pamuk, "MOSSY – Mobile Survey System". 2002-2003. (*Received Microsoft .NET National Contest Award in Turkey*).
51. Nurettin Mert Aydin, Ahmet Ornek, Yilmaz Can Ozmen. "Patient Follow-Up System". 2002-2003.
52. Gokce Gorbil. "Pocket FTP". 2002-2003.
53. Mehmet Safak Albayrak, Birkan Duman. "Student Review System". 2002-2003.

EDUCATIONAL DEVELOPMENT ACTIVITIES

1. Video recording of CS 342. All lectures of the operating systems course that I offered in Spring 2009 are video-recorded and now open to public to download and watch over the web. The URL of the lectures is:
http://courses.bilkent.edu.tr/videolib/course_videos.php?courseid=8
2. Each semester I update my course contents and notes/slides. I design original and new projects in each semester.
3. Attended the Intel Technology Entrepreneurship Education - Theory to Practice Seminar, held in Istanbul, Turkey, in June 2006. It was a two days seminar organized by Intel Corporation and given by professors from UC, Berkeley Haas Business School. This was helpful for Wireless Networking Technologies and Applications course that I am offering with an equipment donation form Intel Corporation.

4. Attended the Windows Kernel Source and Internals Workshop, held in Izmir, Turkey, on September 17-18, 2007. 2 days. Given by Dave Probert from Microsoft Windows kernel team. This was helpful for operating systems course that I am giving.
5. Advising undergrad students in taking courses and dealing with difficulties of undergraduate engineering education.

CONTRIBUTION TO BILKENT UNIVERSITY

- Member of Faculty Board, Faculty of Engineering, Bilkent University, 2006-2009.
- Member of Faculty Executive Board, Faculty of Engineering, Bilkent University, 2006-2009.
- Member of ABET Committee, Department of Computer Engineering, Bilkent University 2004-Present. Working on ABET certification related activities.
- Member of SPEC (Student Performance Evaluation Committee), Department of Computer Engineering, Bilkent University, 2004-Present. Conducting surveys on undergraduate students of Computer Engineering Department and evaluating the survey results.
- Member of PICC (Program Improvement Coordination Committee), Department of Computer Engineering, Bilkent University, 2004-Present. Coming up with suggestions for improvement in the program and submitting the suggestions to the Department.
- Member of Summer Training Committee, Department of Computer Engineering, Bilkent University, 2004-Present. Advising and helping students about summer training.
- Member of Curriculum Committee, Department of Computer Engineering, Bilkent University, 2007-Present. Working on the design and update of the curriculum of the Computer Engineering Department.
- Ph.D. qual exam coordination and preparing questions for Ph.D. qual exams.
- Taking part in high-school introductions of the University.
- Project coordinator for the development of a software system called *BilSurvey*, a web based survey conducting and management system, that is used by the Department of Computer Engineering for conducting online surveys to students, employers, and alumni.

GRADUATE EXAM/DEFENSE COMMITTEES PARTICIPATED

- **Ph.D. Defense Committees**

1. Byurhan Hyusein, CS UCD Ireland, 11.06.2004, Adv: J. Carthy
2. Cuneyt Sevgi, II METU, 24.09.2009. Adv: A. Kocyigit
3. Ali Boker, CE METU, 22.01.2009. Adv: M. Bozyigit
4. Celal Alp Tunc, EEE Bilkent, 02.09, Adv: A. Altintas
5. Ender Sevinc, CE METU, 15.10.2009. Adv: A. Cosar
6. Orhan Dagdeviren, ICI Ege, 16.07.2010. Adv: K. Erciyes
7. Aziz Sozer, CE METU, 02.07.2010. Adv: A. Yazici
8. Namik Sengezer, EEE Bilkent, 27.08.2010. Adv: E. Karasan
9. Ozgur Sanli, CE METU, 17.09.2010. Adv : A. Yazici
10. Canan Aydogdu, EEE Bilkent, 29.11.2010. Adv: Ezhan Karasan
11. Serhan Tatar, CS Bilkent, 11.01.2011. Adv: I. Cicekli
12. Ozgur Sanli, CE METU, 20.06.2011. Adv: A. Yazici and I. Korpeoglu

- **Ph.D. Qual Oral Exam (OE), Research Proposal (RP), and Progress Monitoring (PM) Committees**

1. Ertugrul Kartal Tabak, CS Bilkent, 2005 (OE). Adv: C. Aykanat

2. Kamer Kaya, CS Bilkent, 2005 (OE). Adv: A. Selcuk
3. Cem Sahin, EEE Bilkent, 08.12.2004 (OE), Adv: N. Akar
4. Aziz Sozer, CE METU, 23.06.2005 (RP). Adv: A. Yazici
5. Orhan Dagdeviren, ICI Ege, 03.11.2008 (RP). Adv: K. Erciyes
6. Burak Guldogan, EEE Bilkent, 02.05.2008 (OE). Adv: O. Arikan
7. Orhan Dagdeviren, ICI Ege, 02.07.2009 (PM). Adv: K. Erciyes
8. Mehmet Koseoglu. EEE Bilkent, 09.01.2009 (OE). Adv: E. Karasan
9. Suat Bayram, EEE Bilkent, 26.05.2010 (OE). Adv: S. Gezici
10. Orhan Dagdeviren, ICI Ege, 09.06.2010 (PM). Adv: K. Erciyes
11. Bilgin Avenoglu, II METU, 17.06.2010 (PM). Adv : E. Eren
12. Suleyman Ozarlan, II METU, 17.06.2010 (RP). Adv. E. Eren
13. Hakki Bagci, CE METU, 25.06.2010 (RP). Adv. A. Yazici
14. Bilgin Avenoglu, II METU, 05.01.2011 (PM). Adv: E. Eren
15. Suleyman Ozarlan, II METU, 05.01.2011 (PM). Adv. E. Eren
16. Ustun Ozgur, EEE Bilkent, 04.01.2011 (OE). Adv: ...
17. Saygun Onal, EEE Bilkent, 12.01.2011 (OE). Adv: ...
18. Mehmet Koseoglu. EEE Bilkent, 07.01.2011 (PM). Adv: E. Karasan
19. Sitar Kortik, 11.01.2011, CS Bilkent, 11.01.2011 (OE), Adv: U. Saranli
20. Erkan Okuyan, CS Bilkent, 27.05.2011 (OE), Adv: C. Aykanat
21. Enver Kayaaslan, CS Bilkent, 27.05.2011 (OE), Adv: C. Aykanat
22. Osman Gurlevik, EEE Bilkent, 20.06.2011 (OE), Adv: D. Aktas
23. Bilgin Avenoglu, II METU, 29.06.2011 (PM). Adv: E. Eren
24. Suleyman Ozarlan, II METU, 29.06.2011 (PM). Adv. E. Eren

● **M.S. Defense Committees**

1. Gulay Unel, CS Bilkent, 07.2002. Adv: O. Ulusoy
2. Eyup Sabri Konak, CS Bilkent, 08.2002. Adv: U. Gudukbay
3. Mustafa Kutluturk, CS Bilkent, 08.2002. Adv: O. Ulusoy
4. Berkan Yalcinkaya, CS Bilkent, 08.2002. Adv: A. Guvenir
5. Yakup Balkas, EE Bilkent, 09.2002. Adv: E. Karasan
6. Aykut Unal, CS Bilkent, 09.2002. Adv: O. Ulusoy
7. Ozer Aydemir, CS Bilkent, 01.14.2004. Adv: A. Selcuk
8. Rifat Ulucinar, CS Bilkent, 01.14.2004. Adv: D. Davenport
9. Ismail Uzun, EEEE Bilkent, 05.08.2004. Adv: Z. Ider
10. Ferhat Yildirim, EEE Bilkent 09.08.2005. Adv: L. Gurel
11. Ozlem Subakan, CS Bilkent, 02.08.2005, Adv: O. Ulusoy
12. Evren Karaca, CS Bilkent, 01.2006. Adv. C. Aykanat
13. Tarik Yardibi, EEE Bilkent, 17.07.2006. Adv: E. Karasan
14. Burak Guldogan, EEE Bilkent, 07.2006. Adv: O. Arikan
15. Doruk Bozagac, CS Dept, 09.2006. Adv: A. Selcuk
16. Murat Ak, CS Bilkent, 09.2006. Adv: A. Selcuk
17. Kerem Oktem, EEE Bilkent, 09.2006, Adv: H. Koymen
18. A.Kerim Kamci, EEE Bilkent, 09.2006. Adv: E. Karasan
19. Sila Kurugol, EEE Bilkent, 09.2006. Adv: N. Akar
20. Guray Gurel, EEE Bilkent, 09.2006. Adv: E. Karasan

21. Ali Cevahir, CS Bilkent, 05.09.2006. Adv: C. Aykanat
22. Deniz Ustebay, EEE Bilkent, 06.2006. Adv: H. Ozbay
23. Hayati Cam, CS Bilkent, 05.09.2008. Adv: O. Ulusoy
24. Leyla Bilge, CS Bilkent, 07.2008. Adv: A. Selcuk
25. Ismet Zeki Yanlız, CS Bilkent, 08.2008. Adv: O. Ulusoy
26. Hayrettin Gurkok, CS Bilkent, 08.2008. Adv: M. Karamuftuoglu
27. Ozlem Yilmaz, EEE Bilkent, 10.09.2008. Adv: A. Atalar
28. Ismail Cirak, EEE Bilkent, 04.09.2008. Adv: E. Karasan
29. Bahadir Aybar, EEE Bilkent, 04.09.2008. Adv: O. Arikan
30. Cenk Ertürk, EEE Bilkent, 04.09.2008. Adv: N. Akar
31. Seckin Ozsarac, EEE Bilkent, 02.09.2008. Adv: E. Karasan
32. Suat Bayram, EEE Bilkent, 29.05.2008. Adv: S. Gezici
33. Fazli Kaybal, EEE Bilkent, 28.07.2009, Adv: E. Karasan
34. Can Sardan, CS Bilkent, 27.08.2009. Adv: C. Celik
35. Omer Sezgin Ugurlu, CS Bilkent, 2009. Adv: A. Selcuk
36. Hamza Soganci, EEE Bilkent, 26.08.2009. Adv: S. Gezici
37. M. Altan Tokgoz, EEE Bilkent, 08.2009. Adv: N. Akar.
38. Ahmet Emrah Sezgin, EEE Bilkent, 04.09.2009. Adv: E. Karasan
39. Hakan Bagci, CE METU, 14.01.2010. Adv: A. Yazici
40. Eda Kilic, CE METU, 03.02.2010. Adv: C. Sener
41. Gulsah Bulut, CE METU, 03.02.2010. Adv: C. Sener
42. Ridvan Tekdogan, CS METU, 03.05.2010. Adv: C. Sener
43. Onur Tan, EEE Bilkent, 02.06.2010. Adv: O. Arikan
44. Fatih Kocak, EEE Bilkent, 29.06.2010. Adv: S. Gezici
45. Aykut Yildiz, EEE Bilkent, 13.07.2010. Adv: O. Arikan
46. Pelin Damci, IE Bilkent, 13.07.2010. Adv: O. Karasan
47. Yasir Karisan, EEE Bilkent, 14.07.2010. Adv: S. Gezici
48. Esra Koca, IE Bilkent, 20.07.2010. Adv: E.A. Yildirim
49. Kaan Onarlioglu, CS Bilkent, 27.07.2010. Adv: A. Selcuk
50. Firat Karatas, EEE Bilkent, 30.07.2010. Adv: N. Akar
51. Ahmet Gungor, EEE Bilkent, 20.08.2010. Adv: S. Gezici
52. M. Emin Tutay, EEE Bilkent, 26.08.2010. Adv: S. Gezici
53. Mucahit Karakoc, CS METU, 06.09.2010. Adv: A. Cosar
54. Erkan Uzun, CS METU, 17.09.2010. Adv: A. Yazici
55. Celal Cigir, CS Bilkent, 15.08.2011. Adv: C. Demir
56. Anil Turel, CS Bilkent, 24.08.2011. Adv: F. Can
57. Cagri Toraman, CS Bilkent, 24.08.2011. Adv: F. Can
58. Merve Dilek, CS Bilkent, 06.09.2011. Adv: C. Celik

CONTRIBUTION TO SOCIETY AT LARGE

- *Consultancy* to some technology companies in Turkey:
 1. MobilSoft, 2004.
 2. Aselsan, 2007-2009.
- Reviewer for the following journals

- **Before-2010:** IEEE Transactions on Computers. IEEE Transactions on Parallel and Distributed Systems. Wireless Communications and Mobile Computing (Wiley). EURASIP Journal on Wireless Communications and Networking, Information Sciences (Elsevier). Telecommunications Systems Journal (Springer). Computer Communications (Elsevier). Journal of Network and Computer Applications (Elsevier). Computer Networks (Elsevier). Ad Hoc Networks (Elsevier). IEEE Communications. IEEE Wireless Communications.
- **Year-2010:** 06.2010, IEEE Transactions on Vehicular Technology. 09.2010, IEEE Transactions on Vehicular Technology. 06.2010, Hindawi Journal of Electrical and Computer Engineering. 06.2010, Turkish Journal of Electrical engineering and Computer Sciences. 09.2010. Turkish Journal of Electrical engineering and Computer Sciences. 06.2010, Journal of network and Computer Applications. 01.2010, Journal of network and Computer Applications. 07.2010, Springer Distributed and Parallel Databases. 08.2010, IEEE Communications Magazine. 09.2010, IEEE Communications Surveys and Tutorials. 09.2010, The Computer Journal. 01.2010, The Computer Journal. 05.2010, The Computer Journal. 09.2010, IEEE Transactions on Parallel and Distributed Computing. 10.2010, IEEE Transactions on Parallel and Distributed Computing. 10.2010, Elsevier Microelectronics Reliability. 11.2010, Elsevier Computer Communications. 01.2010, Elsevier Computer Communications. 11.2010, IEEE Transactions on Network and Service Management. 05.2010, IEEE/ACM Transactions on Networking. 05.2010, Springer Mobile Networks and Applications. 01.2010, Springer Mobile Networks and Applications. 05.2010, Springer Wireless Networks. 02.2010. Elsevier Ad Hoc Networks. 12.2010, International Journal of Distributed Sensor Networks.
- **Year-2011:** 10.2011, Turkish Journal of Electrical Engineering and Computer Science. 11.2011, Turkish Journal of Electrical Engineering and Computer Science. 09.2011, SIGCOMM Computer Communications Review. 09.2011, KSII Transactions on Internet and Information Systems. 08.2011, Elsevier Computer Communications. 08.2011, IEEE Communications Magazine. 07.2011, IEEE Communications Surveys and Tutorials. 07.2011, Journal of Network and Computer Applications. 06.2011, IET Wireless Sensor Systems. 06.2011, IEEE Transactions on Vehicular Technology. 06.2011, EURASIP Journal on Wireless Communications and Networking. 05.2011, The Computer Journal. 05.2011, Turkish Journal of Electrical Engineering and Computer Science. 05.2011, IEEE Communications Magazine. 04.2011, Turkish Journal of Electrical Engineering and Computer Science. 04.2011, ACM Transactions on Autonomous and Adaptive Systems. 03.2011, EURASIP Journal on Wireless Communications and Networking. 02.2011, Elsevier Computer Networks. 02.2011, Turkish Journal of Electrical Engineering and Computer Science. 01.2011, Sensors. 01.2011, The Computer Journal.

MEMBERSHIPS TO PROFESSIONAL SOCIETIES

- IEEE Senior Member
- IEEE Computer Society Member, IEEE Communications Society Member
- ACM Member

OTHER INFORMATION

- Languages: English (fluent); German (advanced - KPDS level A); Turkish (native);
- Marital Status: Married, two children.
- Extra-curricular achievements:
 1. Cup Winner in Bilkent University Republic Cup Fall 2008 Mens Table Tennis Tournament, November 19, 2008.
 2. First Place in Bilkent University Republic Cup 2008 Employee Sports Festival Table Tennis Tournament, January 28, 2008.
 3. First Place in Bilkent University Personnel Mens Table Tennis Tournament (organized as part of Rectors Cup Sporting Events), June 2007.

4. First place in T-Shirt Design Contest in Computer Science Dept of University of Maryland-College Park, 1996.
 5. Second Place in Table-Tennis Tournament among Science High-schools of Turkey, Goztepe-Istanbul, 1989.
-