



## Canan Aydogdu

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### Short Biography

Canan Aydogdu received her BS degrees with honors both in Electrical and Electronics Engineering Department and Physics Department in 2001 from Bogazici University, Istanbul, Turkey; MS degree in 2003 and Ph. D. degree in 2011 in Electrical and Electronics Engineering from Bilkent University, Ankara, Turkey. She worked as a faculty member in the Department of Electrical and Electronics Engineering at Izmir Technology of Institute and got her associate professorship degree in 2017. She is currently at Electrical Engineering Department at Chalmers University of Technology in scope of a Marie Sklodowska-Curie Individual Fellowship. Her current work focuses radar communications, medium access control and localization in vehicular ad-hoc networks. Her previous studies include telemedicine, Bluetooth, energy conserving protocols and analytical queueing models in multi-hop wireless ad-hoc networks. She is married and has three daughters.

### Education

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|-------------------|---|-----------------|
| <b>2003– 2011</b> | <b>BİLKENT UNIVERSITY</b>   | <b>Ankara</b>   |
|                   | <ul style="list-style-type: none"><li>• <b>Ph.D., Dept. Of Electrical and Electronics Eng., Communication Networks</b></li><li>• Thesis Title: An Analytical Model of IEEE 802.11 DCF for Multi-Hop Wireless Networks and Its Application to Goodput and Energy Analysis (Supervisor: Assoc. Prof. Dr. Ezhan Karaşan)</li><li>• <b>3.83/4 GPA</b></li></ul> |                 |
| <b>2001–2003</b>  | <b>BİLKENT UNIVERSITY</b>   | <b>Ankara</b>   |
|                   | <ul style="list-style-type: none"><li>• <b>M.S., Dept. of Electrical and Electronics Eng., Telecommunication</b></li><li>• Thesis Title: Energy-Efficient Bluetooth Scatternet Formation based on Device and Link characteristics (Supervisor: Assoc. Prof. Dr. Ezhan Karaşan)</li><li>• <b>3.89/4 GPA</b></li></ul>  |                 |
| <b>1997–2001</b>  | <b>BOĞAZIÇI UNIVERSITY</b>  | <b>İstanbul</b> |
|                   | <ul style="list-style-type: none"><li>• <b>Bachelor, Dept. of Electrical and Electronics Eng.</b></li><li>• <b>Double major with Physics Dept.</b></li><li>• Thesis Title: Smart Home (Supervisor: Assist. Prof. Dr. Levent Arslan)</li><li>• Graduation with high honor degree</li><li>• <b>3.30/4 GPA</b></li></ul>                                       |                 |

- 1994–1997**                      **İZMİR SCIENCE HIGH SCHOOL**                      **İzmir**
- 1996 – **First degree award** for Physics High School Research Projects Competition at TÜBİTAK (Turkish National Science and Technology Institution)  
Project Title: Measuring superconductivity by a self-developed device
  - 1996 – **First degree award** for Physics at MEF 5<sup>th</sup> Research Projects Competition
  - **4.95/5 GPA**

## Awards and Achievements

- **2017, April** – Granted the degree of ‘Associate Professorship’ by the Turkish National Inter-Universities Committee after a two step examination, which includes examination of achievements/publications/teaching/supervision and an oral examination.
- **2017-** Granted by European Commission Marie Skłodowska-Curie Individual Fellowship by the call H2020-MSCA-IF-2016 by the project numbered 745706 and titled as “GreenLoc: A High-Sensitive Green Localization System for High-Speed Self-Driving Vehicles”.
- **2013-** Project supported by the Ministry of Science, Industry and Technology with 99.850TL budget, coordinated and completed successfully. Managed R&D activities in the unlimited company formed in 01/06/2012 in context of this project in İzmir Technology Development Center, which provided a substantial industry experience.
- Bilkent University graduate scholarship
- VAKSA scholarship throughout undergraduate education
- 1997 – **ranked 18<sup>th</sup>** in nation-wide university entrance exam among appr. 1.5 million high-school graduates at ÖSS Sayısal, Turkey.
- 1997 – **ranked 104<sup>th</sup>** in nation-wide university entrance exam among appr. 1.5 million high-school graduates at ÖYS Sayısal, Turkey.
- 1996 – **TÜBİTAK, First degree award** for Physics at High School Research Projects Competition
- 1996 – **MEF, First degree award** for Physics at MEF 5. Research Projects Competition.
- 1994 – **ranked 4<sup>th</sup>** in nation-wide science high school entrance examinations in Turkey.

## Pedagogical Education/ Certificates

- 29–30 Oct. 2018**                      **Chalmers University of Technology**                      **Gothenburg**
- CDIO Faculty Development Course- Implement the CDIO (Conceive Design Implement Operate) approach in your course
- Aug.–April 2019**                      **Chalmers University of Technology**                      **Gothenburg**
- CIU955: Blended Learning and Digital Media in Higher Education (5 HEC)
  - CIU950: University Teaching and Learning Course (3 HEC)
  - CIU965: Diversity and Inclusion for Learning in Higher Education (2 HEC)
- 1998**    **Bogazici University**    **Istanbul**
- ED 101: Introduction to Education (6 ECTS)

## Academic Experience

- Aug.2017-?**                      **Chalmers University of Technology**                      **Gothenburg**
- MSCA-IF, Dept. Of Electrical Eng., Communication Systems Group
- April 2017– Aug.2017**                      **İzmir Institute of Technology**                      **İzmir**
- Assoc. Prof. Dr., Dept. Of Electrical and Electronics Eng.
- July 2011– April 2017**                      **İzmir Institute of Technology**                      **İzmir**
- Assist. Prof. Dr., Dept. Of Electrical and Electronics Eng.
  - Formation of the Wireless Networking Laboratory (A donation is arranged from Texas Instruments and Izmir Institute of Technology, which served for successful completion of 12 bachelor and one graduate theses, providing a research environment for network simulations and up-to-date low-power wireless networking experimentation.)
- 2001– 2011**                      **Bilkent Üniversity**                      **Ankara**
- Research and teaching assistant, Dept. of Electrical and Electronics Eng.
  - Prepared ABET Self-Study report for Dept. of Electrical and Electronics Eng.
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## Industrial Experience

- 2012–2014**                      **İzmir Technology Development Zone**                      **İzmir**
- Founder of the company: “Canan Aydoğdu Mobile Positioning Technologies”, in 01/06/2012 by the support of Ministry of Science, Industry and Technology of Turkey.
  - Manager and R&D Engineer
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## Project Experience

### Ongoing and/or Granted Projects:

- Pinar Boyraz Baykas, Nikolce Murgovski, Balázs Adam Kulcsár, Henk Wymeersch, **Canan Aydoğdu (researcher)**, “IRIS: Inverse Reinforcement-Learning and Intelligent Swarm Algorithms for Multi-Object Optimization of Mixed-traffic Flow”, Transport AoA, 3.5M SEK, 2 year (*granted, not started*).
- Henk Wymeersch (coordinator), **Canan Aydoğdu (researcher)**, project partners: Volva Cars Cooperation, Autoliv, QamCom, SAAB, Halmstad University, Chalmers University of Technology, “Combined Radar-Based Communication and Interference Mitigation for Automotive Applications”, FFI: Trafiksäkerhet och automatiserade fordon, budget 13.855.000 SEK, 2 year, Jan. 2019-Dec. 2020.
- **Canan Aydogdu (coordinator)**, Henk Wymeersch (supervisor), “GreenLoc: A High-Sensitive Green Localization System for High-Speed Self-Driving Vehicles”, European Commission Horizon 2020 Marie Skłodowska-Curie Individual Fellowship (H2020-MSCA-IF-2016, no: 745706), budget 185.857 Euro, 2 years, 15 Aug.2017- 14 Aug. 2019.

### Projects completed:

- **Canan Aydogdu**, Nil Garcia, Lars Hammarstrand and Henk Wymeersch, “RadComCOOP: mmWave Radar-Communications for Cooperative Perception in Vehicular Ad-Hoc Networks”, Interdisciplinary Seed Grant from Electrical Engineering Department of Chalmers University of Technology, budget 430.000 SEK, 1 year, Jan.2018- Dec. 2018.

- **Canan Aydođdu (coordinator)**, “Child Locator Device”, 2012 Techno-Enterprise Capital Support Programme (2012 Teknogiriřim Sermaye Desteđi) by Ministry of Science, Industry and Technology (Bilim, Sanayi ve Teknoloji Bakanlıđı), 2013, 1 year, budget 99.850TL.
- Prof. Dr. Erdal ARIKAN, Prof. Dr. Abdullah ATALAR, Prof. Dr. Ayhan ALTINTAS, Prof. Dr. Hayrettin KOYMEN, Asst. Prof. Dr. Ezhan KARASAN, Asst. Prof. Dr. Nail AKAR, Asst. Prof. Dr. Ibrahim KORPEOGLU, Senior Lecturer Tarik REYHAN, **Canan Aydođdu (researcher)** and other researchers (totally 30 partners and 1 coordinator , “**NEWCOM++: Network of Excellence in Wireless Communications (ICT-2007,1.1)**,” 7<sup>th</sup> European Community Framework Programme for Research and Technological Development (EU FP7), 2008, 3 years.
- Prof. Dr. Erdal ARIKAN, Prof. Dr. Abdullah ATALAR, Prof. Dr. Ayhan ALTINTAS, Prof. Dr. Hayrettin KOYMEN, Asst. Prof. Dr. Ezhan KARASAN, Asst. Prof. Dr. Nail AKAR, Asst. Prof. Dr. Ibrahim KORPEOGLU, Senior Lecturer Tarik REYHAN, **Canan Aydođdu (researcher)** and other researchers (totally colaborators and researchers from 17 countries and 58 collaborator organization), “**NEWCOM: Network of Excellence in Wireless Communications (IST-NoE)**”, 6<sup>th</sup> European Community Framework Programme for Research and Technological Development (EU FP6), 2004, 3 years.

## Patent Applications

- **2019**, International Patent Application, by support of Chalmers Ventures and Almi. To be filed in 2019/07.
- **2016**, National Patent Application, 2016-GE-355025, “Infrastructure-less TDoA-based Child Locator Device” (withdrawal in 2019/01)
- **2015**, National Patent Application, 2015-GE-458675, “Vehicular Communication and High-Precision Localization” (withdrawal in 2019/01)

## Publications

### Peer Reviewed Journal Publications

1. **Canan Aydogdu**, Musa Furkan Keskin, Nil Garcia, Henk Wymeersch and Daniel W. Bliss, “RadChat: Spectrum Sharing for Automotive Radar Interference Mitigation”, *IEEE Transactions on Intelligent Transportation Systems*, submitted: 29 May 2019 (*awaiting decision*)
2. **Canan Aydogdu**, Gisela K. Carvajal, Anastasios Deligiannis, Hans Hellsten, Hans Herbertsson, Musa Furkan Keskin, Emil Nilsson, Mats Rydström, Karl Vanäs, Henk Wymeersch, “Radar Interference Mitigation for Automated Driving”, *IEEE Signal Processing Magazine*, White Paper, submitted: 15 May 2019 (*awaiting decision*)
3. Aydogdu O., Sen V., Yarimoglu S., **Aydogdu Canan**, Bozkurt I.H., Yonguc T., “The effect of additional telerounding on postoperative outcomes, patient and surgeon satisfaction rates in the patients who underwent percutaneous nephrolithotomy”, *Arch Esp Urol*. **2019** Jan;72(1):69-74.
4. Arman Gonden, Burcin Guzel, **Canan Aydogdu**, “A Method for Enhancing Speed of Bluetooth based Telemedicine Services”, *Minerva Biotechnologica*, letter to the editor, 28(3):175-6, Sept. **2016**.

5. **Canan Aydoğdu**, Ezhan Karaşan, "Goodput and Throughput Comparison of Single-Hop and Multi-Hop Routing for IEEE 802.11 DCF based Wireless Networks," *Wireless Communications and Mobile Computing*, vol. 16, no. 9, pp. 1078–1094, Doi: 10.1002/wcm.258825, June **2016**.
6. **Canan Aydoğdu**, Sibel Sancaklı, "Joint Effect of Data Rate and Routing Strategy on Energy-Efficiency of IEEE 802.11 DCF based Multi-Hop Wireless Networks under Hidden Terminal Existence", *Ad Hoc Networks Journal Elsevier*, vol. 30, pp. 1-21, Doi: 10.1016/j.adhoc.2015.02.004, July **2015**.
7. **Canan Aydogdu**, Ezhan Karasan, "An Analysis of IEEE 802.11 DCF and Its Application to Energy-Efficient Relaying in Multi-Hop Wireless Networks," *IEEE Transactions on Mobile Computing* (ISSN: 1536-1233), vol.10, no. 10, pp.1361-1373, Oct. **2011**.
8. **Canan Pamuk**, Ezhan Karaşan, "SF-DeviL: An Algorithm for Energy-Efficient Bluetooth Scatternet Formation and Maintenance," *Elsevier Computer Communications Journal Special Issue on Performance Issues of Wireless LANs, PANs, and Ad Hoc Networks* (ISSN: 0140-3664), Vol. 28, no. 10, pp. 1276-1291, June **2005**.
9. **Canan Aydogdu**, Ozgu Aydogdu, "An Overview of Telemedicine in Turkey", *BioTechnology: An Indian Journal*, vol. 7, no. 3, **2013**.

#### **Peer-reviewed Conference Publications**

1. **Canan Aydogdu**, Nil Garcia, L. Hammarstrand and Henk Wymeersch, "Radar Communication for Combating Mutual Interference of FMCW Radars", *IEEE Revolutions in Radar*, Boston, USA, 22-26 April **2019**.
2. **Canan Aydogdu**, Nil Garcia and Henk Wymeersch, "Improved Pedestrian Detection under Mutual Interference by FMCW Radar Communications", *IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Workshop on 5G V2X Communications for Connected Autonomous Driving*, Bologna, Italy, 9-12 September **2018**.
3. **Canan Aydogdu**, "Effect of Traffic Arrival Distributions on Routing Strategy in Multi-Hop Wireless Networks", *Proceedings of the 6th ACM Symposium on Development and Analysis of Intelligent Vehicular Networks and Applications (DIVANet '16)*, Doi: <https://doi.org/10.1145/2989275.2989288>, pp. 107-114, Malta, 13-17 Nov. **2016**,
4. Arman Gonden, Burçin Guzel, **Canan Aydoğdu**, "Enhancing Bluetooth Connection Establishment Delay in Inquiry Procedure," *12th International eHealth, Telemedicine and Health ICT Forum for Education, Networking and Business (Med-e-Tel 2014)*, Luxembourg, 9-11 Apr. **2014**.
5. **Canan Aydoğdu**, K. Atilla Toker, İlkay Kozak, "Infrastructureless TDOF/AOA-based Indoor Positioning with Radio Waves", *International Conference on Indoor Positioning and Indoor Navigation (IPIN)*, Belford, France, 28th-31th Oct. **2013**.
6. **Canan Aydogdu**, "Telemedicine in Turkey: Potential, Initiatives and Obstacles," *9th International eHealth, Telemedicine and Health ICT Forum for Education, Networking and Business (Med-e-Tel 2011)*, Luxembourg, 6-8 Apr. **2011**.
7. **C. Pamuk**, E. Karasan, "An Algorithm for Energy-Efficient Bluetooth Scatternet Formation and Maintenance," *15th IEEE International Symposium on Personal*,

*Indoor and Mobile Radio Communications (PIMRC)*, Barcelona, Spain, 5-8 September **2004**.

8. C. Pamuk, E. Karasan, "A Tree-Based Energy-Efficient Distributed Algorithm for Forming Bluetooth Scatternet Topologies," *3rd Annual Mediterranean Ad Hoc Networking Workshop (MedHocNet)*, Bodrum, Turkey, 27-30 June **2004**.
9. C. Pamuk and E. Karasan, "SF-DeviL: Distributed Bluetooth Scatternet Formation Algorithm based on Device and Link Characteristics," *8th IEEE Symposium on Computers and Communications (ISCC)*, Antalya, Turkey, June **2003**.
10. **Canan Aydogdu**, "Effect of Traffic Arrival Distributions on Routing Strategy in Multi-Hop Wireless Networks", *19th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MsWiM'16)*, poster, Malta, 13-17 Nov. **2016**.
11. Özgü Aydoğdu, Volkan Sen, Serkan Yarımoglu, **Canan Aydogdu**, Bozkurt Ibrahim Halil, Yonguç Tarık, "The effect of telorounding on postoperative outcomes, patient and surgeon satisfaction rates in the patients who underwent percutaneous nephrolithotomy: A novel practice in urological patient care", *2nd EUA Baltic Meeting*, 14(3), 1163, **2015**.
12. **Canan Aydogdu**, Nil Garcia and Henk Wymeersch, "A Solution for Removing Automotive Radar Interference: Radar Communications", *Swedish Transportation Research Conference*, Gothenburg, Sweden, 15-16 October **2018**.
13. Hande Bayulu, Merve Öncer, **Canan Aydoğdu**, "IEEE 802.11 Ad-Hoc Ağlarda Kalan Sekme Sayısının Uyarlanması ile Çok-Sekmeli Yol-Atamalarda Ulaştırılan İş Çöküşünün Önlenmesi", *25th Signal Processing and Communications Applications Conference (SIU)*, Antalya, Turkey, 15-18 May **2017**.
14. **Canan Aydoğdu** and Sibel Sancaklı, "IEEE 802.11g DCF tabanlı Çok-Sekmeli Kablosuz Ağlarda Veri Hızının Üretilen İş ve Ulaştırılan İş Performanslarına Etkisi", *5th National Communication Technologies Symposium*, İzmir, Turkey, 16-17 May **2013**.
15. Sibel Sancaklı, **Canan Aydogdu**, "Effects of Rate Adaptation on Performance of IEEE 802.11g DCF based Multi-hop Wireless," *MASFOR 2012*, Bogazici University, İstanbul, 21-23 June **2012**.
16. **C. Pamuk** and E. Karasan, "Distributed Bluetooth Scatternet Formation based on Device and Link Characteristics," *IEEE Signal Processing and Communications Applications Conference (SIU)*, İstanbul, Turkey, June **2003**.

#### **Non-peer reviewed Conferences/Seminars**

1. **Canan Aydogdu**, Nil Garcia and Henk Wymeersch, "Radar Communications: A solution for mitigating automotive radar interference", *IEEE Workshop on Wireless Vehicular Communications, WWVC*, Halmstad, Sweden, 22 Nov. **2018**.
2. **Canan Aydogdu**, "How does a Self-Driving-Vehicle Know Where it is?", *MasterPlan Seminar of Electrical Engineering Department, Chalmers University of Technology*, Gothenburg, 21 Nov. 2018.
3. **Canan Aydogdu**, "How does a Self-Driving-Vehicle Know Where it is?", *Gothenburg Science Festival*, Kugen, Gothenburg, April 2018.

## Dissertations

1. Canan Aydogdu, "An Analytical Model of IEEE 802.11 DCF for Multi-Hop Wireless Networks and Its Application to Goodput and Energy Analysis", Bilkent University, Ph.D. thesis, November **2010**.
  2. Canan Pamuk, "Energy-Efficient Bluetooth Scatternet Formation based on Device and Link characteristics", Master thesis, Bilkent University, August **2003**.
  3. Canan Pamuk, "Smart Home", Bogazici University, undergraduate thesis, June **2001**.
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## Teaching Experience

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| <b>Feb.2019</b>  | <b>Chalmers University of Technology</b> | <b>Gothenburg</b> |
| <ul style="list-style-type: none"><li>• Guest lecturer, SSY135 Wireless Communications, Master degree course for Communication Engineering Programme. 2 hours of lecture is given on the topics: multiplexing, multiple access and random access protocols.</li></ul>  |  |                   |
| <b>2011– 2017</b>  | <b>İzmir Institute of Technology</b>     | <b>İzmir</b>      |
| <ul style="list-style-type: none"><li>• Undergraduate level courses:<br/>EE 142: Introduction to Logic Circuit Design<br/>EE 331: Signals and Systems<br/>EE 440: Wireless Networking Technologies<br/>EE 442: Computer Networks</li><li>• Graduate and Ph.D, level courses<br/>EE 505: Communication Network Analysis<br/>EE 563: Selected Topics in Electrical Engineering: Current Trends in Wireless Networking and Communications<br/>EE 531: Probability and Random Processes<br/>EE 333: Fundamentals of Probability and Random Processes<br/>EE 554: Wireless Communications</li></ul> |  |                   |
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## Thesis Supervision

### Graduate Thesis Supervision:

- Abebe Haftu Fitur, "Radar Communication for Interference Reduction in Automotive Applications", (Supervisor: Canan Aydogdu, Examiner: Henk Wymeersch), M. S. Thesis, Chalmers University of Technology, Electrical Engineering Department, September **2018**.
- Sibel Sancaklı, "Effects of Transmission Rate on the Performance of IEEE 802.11g DCF based Multi-hop Wireless Networks", (Supervisor and Examiner: Canan Aydogdu), M. S. Thesis, İzmir Institute of Technology, Engineering Faculty, Electrical and Electronics Engineering Department, December **2012**.

### Bachelor Thesis Supervision:

- Johan Jaxing, Aren Moosakhanian, Andreas Lindström, Thomas Johansen, "Deep machine learning for gesture recognition in IoT applications", (Supervisor: Mohammad Ali Nazari, Co-supervisor: Canan Aydogdu, Examiner: Henk Wymeersch), B.S. Thesis, Chalmers University of Technology, Electrical Engineering Dept., June **2019**.
- C. Berkus, M. Buck, J. Gustafsson, M. Kauppinen, "Human Control of Mobile Robots Using Hand Gestures: A Proof of Concept Implementation", (Supervisor:

Mohammad Ali Nazari, Co-supervisor: Canan Aydogdu, Examiner: Henk Wymeersch), B.S. Thesis, Chalmers University of Technology, Electrical Engineering Dept., June **2018**.

- Merve Öncer, Hande Bayulu, “Preventing Goodput Collapse in Random Wi-Fi Networks by Residual Hop Count Priority”, (Supervisor and Examiner: Canan Aydogdu), Bachelor Thesis, İzmir Institute of Tehcnology, Electrical and Electronics Engineering Department, **2017**.
- Büşra Akbulut, “Relation of Retry Count and Goodput Performance in IEEE 802.11g Wireless Networks”, (Supervisor and Examiner: Canan Aydogdu), Bachelor Thesis, İzmir Institute of Tehcnology, Electrical and Electronics Engineering Department, **2017**.
- Merve Öncer, Hande Bayulu, “Preventing Goodput Collapse for Multi-hop Routing in IEEE 802.11 based Ad-hoc Networks by Adjusting Residual Hop Count”, (Supervisor and Examiner: Canan Aydogdu), Bachelor Thesis, İzmir Institute of Tehcnology, Electrical and Electronics Engineering Department, **2016**.
- Mert Ekren, Okan Erkut, “Load-Adaptive Routing Algorithm for Performance Improvement”, (Supervisor and Examiner: Canan Aydogdu), Bachelor Thesis, İzmir Institute of Tehcnology, Electrical and Electronics Engineering Department, **2016**.
- Berk Soysal, “Motion detection based ultra-low power wireless alarm system by TI CC430 development kits”, (Supervisor and Examiner: Canan Aydogdu), Bachelor Thesis, İzmir Institute of Tehcnology, Electrical and Electronics Engineering Department, **2013**.
- Pınar Reyyan Sözbilen, “Wireless outdoor temperature measuring system by TI CC430 development kits”, (Supervisor and Examiner: Canan Aydogdu), Bachelor Thesis, İzmir Institute of Tehcnology, Electrical and Electronics Engineering Department, **2013**.
- Cansu Arslan, Serkan Aydın, “Wireless data monitoring by CC430F6147”, (Supervisor and Examiner: Canan Aydogdu), Bachelor Thesis, İzmir Institute of Tehcnology, Electrical and Electronics Engineering Department, **2013**.
- Orkun Ovayurt, "Communicating TI EZ430 Crono Watches", (Supervisor and Examiner: Canan Aydogdu), Bachelor Thesis, İzmir Institute of Tehcnology, Electrical and Electronics Engineering Department, **2012**.
- Cansu Arslan, "Developing laboratory experiments with TI CC430 Development Kit", (Supervisor and Examiner: Canan Aydogdu), Bachelor Thesis, İzmir Institute of Tehcnology, Electrical and Electronics Engineering Department, **2012**.
- Yakub Taşoğlu, Mustafa Furkan Yedi yıldız, "A Simulative Throughput Performance Analysis of 802.15.4/ZigBee between Single Hop and Multi Hop Routing Mechanisms in NS2", (Supervisor and Examiner: Canan Aydogdu), Bachelor Thesis, İzmir Institute of Tehcnology, Electrical and Electronics Engineering Department, **2012**.
- Ozan TUĞCU, Umut DEMİR, "Introducing Network Simulator-2 and Effect of Mobility on Throughput", (Supervisor and Examiner: Canan Aydogdu), Bachelor Thesis, İzmir Institute of Tehcnology, Electrical and Electronics Engineering Department, **2012**.
- Arman Günden, Burçin Güzel, "Developing a C/C++ based simulator and proposal of a new connection establishment procedure for Bluetooth", (Supervisor and Examiner: Canan Aydogdu), Bachelor Thesis, İzmir Institute of Tehcnology, Electrical and Electronics Engineering Department, **2011**.



**Programming Skills**

OS: Linux, Windows, Unix.  
Languages: C/C++, Matlab, AWK, Tcl/Tk, Network Simulator NS-2.

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**Personal Information**

Married to Özgu (urology specialist), has three daughters: Damla (2006), Duru (2009) and Deniz (2014).

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**Languages**

Turkish (native), English (advanced), Swedish (Swedex and Göteborg Stad B1 certificate), German (intermediate).

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**Interests**

Sculpture, volleyball, climbing, playing the Turkish instrument “ud”.

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