

Assoc. Prof. Dr. Berna ÖZBEK

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Electrical and Electronics Engineering Department

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Experience

10.2017-Present	Assoc. Prof. Dr., Electrical and Electronics Engineering Dept., İzmir Institute of Technology, İzmir, Turkey.
07.2018-08.2018	Invited Professor, Communication Lab., CNAM, Paris, France.
05.2006-10.2017	Assist. Prof. Dr., Electrical and Electronics Engineering Dept., İzmir Institute of Technology, İzmir, Turkey.
06.2017-09.2017	Invited Professor, Communication Lab., CNAM, Paris, France.
06.2015-07.2015	Invited Professor, Communication Lab., CNAM, Paris, France.
11.2010-11.2012	Marie-Curie Intra European Fellow, Communication Lab., CNAM, Paris, France.
09.2010-11.2010	Invited Researcher, Communication Lab., CNAM, Paris, France.
01.2005-01.2006	Post-Doctoral Fellow, Communication Lab., CNAM, Paris, France.
11.2004-05.2006	Research Assistant, Electrical and Electronics Engineering Dept., İzmir Institute of Technology, İzmir, Turkey.
08.1998-11.2004	Research Engineer, Electrical and Electronics Engineering Dept., İzmir Institute of Technology, İzmir, Turkey.
06.1996-08.1998	Research and Software Engineer, Politeknik Electronics, İzmir, Turkey.

Education

02.1999-12.2004	PhD, Electrical and Electronics Engineering, Dokuz Eylül University, İzmir, Turkey Thesis title: ‘MIMO Communication Systems in Broadband Wireless Channels’.
09.1995-11.1998	MSc, Electrical and Electronics Engineering, Dokuz Eylül University, İzmir, Turkey Thesis title: ‘Data Compression Techniques’.
09.1990-07.1994	BSc, Electrical and Electronics Engineering, Dokuz Eylül University, İzmir, Turkey.

Coordinator

International Project (01.11.2018-01.11.2022)

‘Ultra-Dense Unsupervised Heterogeneous Wireless Cloud Coded Networks for 5G/B5G’, supported by European Commission under H2020-MSCA-RISE-2018. (Budget:214kEuro)

National Project (01.04.2015-01.10.2016)

‘A Secure Multiple Input Multiple Output Wireless Communication System Based on Spatio-temporal Signature’, supported by The Scientific and Technological Research Council of Turkey (TUBİTAK) 1003 National New Ideas and Products R&D Funding programme (Budget:129kTL)

National Project (01.12.2014-30.11.2016)

‘Cell selection algorithms for Apco25 and Tetra Trunk based narrow band radio systems’, supported by ASELSAN A.Ş. and Turkish Republic of Ministry of Science and Industry Grant Program on Industrial Thesis Support (Budget:156kTL)

International Project (20.01.2014-01.02.2016)

‘Traffic Management and Efficient Routing in Software Defined Mobile Networks for SIGMONA’, supported by Argela & Turk Telecomm. University Collaboration Program (labeled by Eureka-Celtic Cluster Call 8 and supported by The Scientific and Technological Research Council of Turkey (TUBITAK) International Industrial R&D Project Grant Program) (2017 Celtic-Plus Excellence Award) (Budget:132kTL)

National Project (04.10.2013-03.10.2014)

‘Cell Selection and Clustering Algorithm Design for Heterogeneous Wireless Networks’ supported by The Scientific Research Funding of Izmir Institute of Technology. (Budget: 5kTL)

International Project (01.04.2010-31.12.2012)

‘MEVICO: Mobile Networks Evolution for Individual User Experience’, supported by Turk Telecommunication University Collaboration Program (labeled by Eureka-Celtic Cluster Call 7 and supported by The Scientific and Technological Research Council of Turkey (Tubitak) International Industrial R&D Project Grant Program). (2013 Celtic-Plus Excellence Silver Award) (Budget:198kTL)

International Project (01.01.2008-31.12.2009)

‘Design of efficient multiuser resource allocation algorithms for multi-antenna multicarrier wireless communication systems’, supported by The Scientific and Technological Research Council of Turkey (TUBITAK) under France and Turkey Bilateral Cooperation Program. (Budget:9kTL)

National Project (01.04.2007-31.03.2008)

‘Performance enhancement for multicast OFDM systems with multiple antennas’, supported by The Scientific Research Funding of Izmir Institute of Technology. (Budget:2kTL)

Marie Curie Intra-European Fellow (01.11.2010-31.10.2012)

‘INTERCELL: Interference management techniques for multicell networks’, awarded by European Commission under FP7-PEOPLE programme (Budget:223kEuro)

Consultant

National Project (15.04.2014-15.04.2016)

‘Interference avoidance and feedback link design for spectrally efficient small cell base stations’, supported INOVEL Company and The Scientific and Technological Research Council of Turkey (TUBITAK) Industrial R&D Project Grant Program (Budget:356kTL)

International Project (01.09.2009-30.06.2012)

‘FEMTOCELL: Interference analyses for home base stations’, supported by INOVEL (labeled by Eureka-Celtic Cluster Call 6 (HOMESNET Project) and supported by The Scientific and Technological Research Council of Turkey (TUBITAK) International Industrial R&D Project Grant Program) (2013 Celtic-Plus Excellence Bronze Award) (Budget:78.1kTL)

National Project (01.06.2010-31.08.2011)

‘Reyting TV: Reyting television measurement systems design’, supported Vestel Company and The Scientific and Technological Research Council of Turkey (TUBITAK) Industrial R&D Project Grant Program. (Budget:21kTL)

Researcher

International Project (01.01.2006-30.04.2008)

FP6 IYTE Wireless Project: Wireless Communication Networks and Multimedia Research Centre supported by European Commission (FP6-ACC-2004-SSA-2)(Budget: 750kEuro).

International Project (01.08.1999-31.12.2003)

Satellite Communications and Related Laboratory Project supported by Turkey and France Government Foundation (Budget: 10 MEuro).

Dissertation Supervision

Completed PhD Thesis:

2)E. A. Beyazıt: ‘Interference alignment techniques for heterogeneous wireless networks’. (Co-Advisor Prof.Dr.Le Ruyet under Cotutelle agreement with CNAM-Paris)(2 September 2016)

1)İ. Baştürk: ‘Resource management for multiuser systems with multiple antennas in wireless networks’ (2 May 2014).

Completed MSc Theses:

12) S.O. Acar, ‘Interference mitigation for device-to-device based wireless systems ’ (September 2014-July 2018)

11) S.S.Yılmaz, ‘Cell selection algorithms for conventional narrow band wireless systems’ (July 2017).

10) A.Karataş, ‘Cell selection algorithms for terrestrial trunked narrow band radio systems’, (July 2017)

9) Ö. Özdoğan, ‘Multiple antenna based physical layer security wireless systems’ (July 2017).

8) Y. Aydoğmuş, ‘Routing and Resource allocation for software defined mobile networks’ (December 2016)

7) E. Tuna: ‘Offloading strategies in heterogeneous wireless networks’ (June 2016).

6) S. Mahmuda: ‘Cell selection and interference coordination techniques for heterogeneous wireless networks’ (July 2015).

5) U. Bayrak: ‘Interference management techniques for femtocell networks’ (April 2015).

4) H. B. Yılmaz: ‘Implementation of interference management algorithms in third generation networks’ (October 2013).

3) M. Çınar: ‘Implementation of relay based systems in wireless cellular networks’ (December 2010).

2) R. F. Üstok: ‘Spectrum sensing techniques for cognitive radio systems with multiple antennas’ (January 2010).

1) İ. Baştürk: ‘Iterative channel estimation techniques for MIMO-OFDM systems’ (June 2007).

Ongoing PhD Theses:

1) S.S. Yılmaz, ‘Precoder and Feedback Link design for Massive MIMO’ (November 2017-Present)

Ongoing MSc Theses:

- 1) D. Özkasap, 'Resource allocation for device-to-device based wireless communications' (October 2017-Present)
- 2) İ. Öcal, 'Beam Selection Techniques in Millimetre Wave Communications' (October 2017, Present)

Patent

- 1) A. S. Tan, **B. Özbek**, E. Zeydan, S. Ergüt, Ç. Edemen, "User supported and cooperative interface selection method on heterogeneous radio networks", Turkish Patent Institute, 2012/13481 (21 September 2016).
- 2) **B. Özbek**, G.K.Kurt, 'Frequency-Spatial Signature based secure wireless communications systems with multiple transmitter antennas', Turkish Patent Institute, (Submitted April 2017) (2017/04956).

Tutorial

B. Özbek, 'Feedback strategies for multicell cooperative communications', 9th International Symposium on Wireless Communication Systems (ISWCS), August 2012, Paris, France.

Honors and Awards

- Marie Curie Intra-European Fellowship awarded by European Commission, Nov. 2010-Nov. 2012.
- Turk Telekom University Collaboration Award (2011) (2014).
- Full Post-doctoral Fellowship, CNAM-Paris, Jan. 2005-Jan 2006.

Teaching Experience

2017-2018

EE451 Communications Systems II (3+2) (undergraduate level) (Fall) (59 students)
EE491 Project (1+4) (undergraduate level) (Fall) (3 students)
EE551 Digital Communications I (3+0) (graduate level) (Fall) (19 students)
EE598 Research Seminar (0+2) (graduate level) (Fall) (7 students)
EE698 Research Seminar for PhD (0+2) (graduate level) (Fall) (1 students)
EE455 Mobile Communications (3+0) (undergraduate level) (Spring) (11 students)
EE491 Project (1+4) (undergraduate level) (Spring) (3 students)
EE551 Digital Communications II (3+0) (graduate level) (Spring) (2 students)
EE598 Research Seminar (0+2) (graduate level) (Spring) (7 students)

2016-2017

EE352 Communications Systems I (3+2) (undergraduate level) (Spring) (68 students)
EE492 Project (1+4) (undergraduate level) (Spring)(5 student)
EE551 Digital Communications I (3+0) (graduate level) (Fall) (8 students)
EE455 Mobile Communications (3+0) (undergraduate level) (Fall) (17 students)
EE491 Project (1+4) (undergraduate level) (Fall)(3 student)

2015-2016

EE451 Communications Systems II (3+2) (undergraduate level) (Fall) (53 students)
EE491 Project (1+4)(undergraduate level)(Fall)(3 students)
EE551 Digital Communications I (3+0) (graduate level) (Fall) (15 students)
EE455 Mobile Communications (3+0) (undergraduate level) (Spring)(24 students)
EE492 Project (1+4)(undergraduate level)(Spring)(1 student)

EE552 Digital Communications II (3+0) (graduate level) (Spring) (2 students)

2014-2015

EE451 Communications Systems II (3+2) (undergraduate level) (Fall)(41 students)

EE491 Project (1+4)(undergraduate level)(Fall)(3 students)

EE551 Digital Communications I (3+0) (graduate level) (Fall) (11 students)

EE455 Mobile Communications (3+0) (undergraduate level) (Spring) (7 students)

EE492 Project (1+4)(undergraduate level)(Spring)(1 student)

EE552 Digital Communications II (3+0) (graduate level) (Spring) (8 students)

2013-2014

EE451 Communications Systems II (3+2) (undergraduate level) (Fall)(36 students)

EE491 Project (1+4) (undergraduate level) (Fall)(2 students)

EE554 Wireless Communications I (3+0) (graduate level) (Fall) (16 students)

EE352 Communications Systems I (3+2) (undergraduate level) (Spring)(60 students)

EE492 Project (1+4)(undergraduate level) (Spring)(7 students)

EE552 Digital Communications II (3+0) (graduate level) (Spring) (1 student)

2012-2013

EE455 Mobile Communications (3+0) (undergraduate level) (Fall)(24 students)

EE491 Project (1+4)(undergraduate level) (Fall)(2 students)

EE352 Communications Systems I (3+2)(undergraduate level) (Spring)(41 students)

EE492 Project (1+4)(undergraduate level) (Spring)(4 students)

EE552 Digital Communications II (3+0) (graduate level) (Spring)(5 students)

2009-2010

EE451 Communications Systems II (3+2) (undergraduate level) (Fall)(12 students)

EE491 Project (1+4)(undergraduate level)(Fall)(3 students)

EE551 Digital Communications I (3+0) (graduate level) (Fall) (8 students)

EE455 Mobile Communications (3+0) (undergraduate level)(Spring)(9 students)

EE492 Project (1+4)(undergraduate level)(Spring)(2 students)

EE552 Digital Communications II (3+0) (graduate level) (Spring) (4 students)

2008-2009

EE451 Communications Systems II (3+0) (undergraduate level) (Fall)(15 students)

EE453 Communications Systems Lab (0+2) (undergraduate level) (Fall)(14 students)

EE491 Project (1+4)(undergraduate level)(Fall)(4 students)

EE557 Multiple Antennas in Wireless Communications (3+0) (graduate level) (Fall)(1 student)

EE455 Mobile Communications (3+0)(undergraduate level) (Spring)(12 students)

EE492 Project (1+4)(undergraduate level)(Spring)(2 students)

EE554 Advanced Wireless Communications (3+0)(graduate level) (Spring)(1 student)

2007-2008

EE451 Communications Systems II (3+0) (undergraduate level) (Fall)(6 students)

EE453 Communications Systems Lab (0+2) (undergraduate level) (Fall)(5 students)

EE491 Project (1+4)(undergraduate level)(Fall)(1 student)

EE557 Multiple Antennas in Wireless Communications(3+0) (graduate level) (Fall)(2 students)

EE352 Communications Systems I (3+0)(undergraduate level) (Spring)(16 students)

EE492 Project (1+4)(undergraduate level)(Spring)(1 student)
EE552 Digital Communications II (3+0) (graduate level) (Spring) (5 students)

2006-2007

EE352 Communications Systems I (3+0) (undergraduate level) (Spring) (5 students)
EE552 Digital Communications II (3+0) (graduate level) (Spring) (1 student)

Referees

Projects

H2020-ICT-2014-1 LEIT (TWEETHER Project) (October 2017) (March 2017) (March 2016)
H2020-ICT-2014-1 LEIT (FLEX5GWARE Project) (September 2017)(September 2016)
H2020-ICT-2014-1 LEIT (SPEED5G Project) (July 2017) (September 2016) (December 2016)
FP7-ICT Networks of Future (MiWaveS Project) (July 2017) (March 2016)
H2020-ICT-2014-1 LEIT (SANSa Project) (April 2018) (March 2017) (October 2016) (November 2015)
H2020-ICT-2016-1 LEIT (6 Projects) (January 2017)
H2020-MONROE Open Call (3 Projects) (January 2017) (April 2016)
H2020-ICT-2014-2 LEIT (6 Projects) (January 2015)
H2020-ICT-2014-1 LEIT (7 Projects) (June 2014)
FP7-ICT Networks of Future (Call 11-Objective 1) (7 Strep Projects) (May 2013)
FP7-ICT Networks of Future (Call 8-Objective 1) (7 Strep and 5 IP Projects) (February 2011)
Turk Telecom Green Communication and Virtualization Project Proposal Call (2011,2012)
FP6-IST Networks of Future (Mascot and Uranus projects) (June 2009)
FP7-ICT Networks of Future (Call 4-Objective 1) (5 Strep Projects) (May 2009)
Turkish Republic of Ministry of Trade and Industry (since 2007)
The Scientific and Technological Research Council of Turkey (TUBITAK) (since 2006)

International Journals

IEEE Wireless Communications Magazine
IEEE Communications Magazine
IEEE Transactions on Wireless Communications
IEEE Transactions on Vehicular Communications
IEEE Communication Letters
European Transaction on Telecommunications
Eurasip Journal on Wireless Communications and Networking
IET Communications
Wireless Personal Communications
Turkish Journal of Electrical Engineering
Ad Hoc Networks

TPC Member for International Conferences

IEEE International Communication Conference (ICC'15, ICC'16, ICC'17)
IEEE International Symposium on Wireless Communication Systems (ISWCS'12, ISWCS'13, ISWCS'14, ISWCS'15, ISWCS'16, ISWCS'18)
International Conference on Communications (ICT'16,ICT'17,ICT'18)
IEEE BlackSeaCom'2017

International Conferences

IEEE Signal Processing and Applications for Wireless Communications (SPAWC)
IEEE Vehicular Technology Conference (VTC)
IEEE Personal Mobile and Communication Conference (PIMRC)
IEEE International Symposium on Wireless Communication Systems (ISWCS)
IEEE Sensor Array and Multichannel Signal Processing Workshop (SAM)

Editor

Turkish Journal of Electrical Engineering (2014)

Administrative Service Activities

- İzmir Institute of Technology, Scientific Research Projects Committee Member (November 2017-Present)
- İzmir Institute of Technology, Electronics and Communication Engineering, Head of Undergraduate Projects Evaluation Committee (September 2017-Present)
- İzmir Institute of Technology, Electronics and Communication Engineering, Head of Stage Evaluation Committee (May 2017-Present)
- İzmir Institute of Technology, Research Director Committee Member (29 April 2017-Present)
- İzmir Institute of Technology, Electrical and Electronics Engineering, Vice Head of Department (6 April 2017-Present)
- IEEE Turkey Sponsored Events Coordinator (January 2016-Present)
- İzmir Institute of Technology, Electronics and Communication Engineering, PhD Qualification Committee Member (February 2014-Present)
- IEEE Student Branch Academic Advisor, İzmir Institute of Technology, Electronics and Communication Engineering (2013-Present)
- İzmir Institute of Technology, Computer Applications and Research Center (BUAM) Committee Member (February 2015- February 2018)
- İzmir Institute of Technology, Electronics and Communication Engineering Research Assistant Selection Committee Member (December 2015) (December 2016)
- İzmir Institute of Technology, Electronics and Communication Engineering, PhD Qualification Committee Member (January 2008-September 2010)
- İzmir Institute of Technology, Electronics and Communication Engineering Master and PhD Students Selection Committee Member (June 2008) (June 2009) (June 2014) (January 2015)
- İzmir Institute of Technology, Computer Applications and Research Center (BUAM) Vice Chairman (June 2008-September 2010)

Invited Talks

- **B.Özbek**, 'Next Generation Wireless Communications Systems', 3+1 March 2017 Talks, IYTE-Teknopark, Izmir.
- M.Uslu, H.B.Tuğrel, G.K.Kurt, **B.Özbek**, 'Spatial Signature based key extraction for physical layer security', 3rd Communications Technologies Workshop (organized by Aselsan A.Ş.), 14 November 2016, Ankara, Turkey.
- S.Yılmaz, A.Karataş, **B.Özbek**, 'Cell selection algorithms Narrowband wireless systems', 3rd Communications Technologies Workshop (organized by Aselsan A.Ş.), 14 November 2016, Ankara, Turkey.

- **B. Özbek**, E. Aycan, ‘Cell selection and interference alignment strategies for heterogeneous wireless networks’, 2nd Communications Technologies Workshop (organized by Aselsan A.Ş.), 18-19 November 2013, Ankara, Turkey.
- E. Aycan, **B. Özbek**, ‘Implementation of cell selection algorithms in heterogeneous networks’, V. Communications Technologies National Symposium (organized by Chamber of Electrical Engineering of Turkey), 16-17 May 2013, İzmir, Turkey.
- İ. Baştürk, **B. Özbek**, ‘Resource management for OFDMA based mobile relay cellular networks’, V. Communications Technologies National Symposium (organized by Chamber of Electrical Engineering of Turkey), 16-17 May 2013, İzmir, Turkey.
- **B. Özbek**, A. Özkurt, ‘Future Communications Technologies in Daily Life’, TV program on Turkish Radio Television (TRT), June 2013.
- İ. Baştürk, **B. Özbek**, ‘Iterative channel estimation for STBC-OFDM systems’, 1st Communications Technologies Workshop, 13-14 October 2011, Ankara, Turkey (organized by Aselsan A.Ş.)
- **B. Özbek**, ‘Modulation and diversity techniques for communication systems’, 1st Communications Workshop, 17-21 May 2003, İzmir, Turkey (supported by Chamber of Electrical Engineering of Turkey).
- **B. Özbek**, ‘Broadband Wireless Communication Techniques based on OFDM in IEEE 802.16 Standard’, Wireless Communications and Security Workshop (WINS), 20-22 December 2002, İzmir, Turkey (supported by Satellite and Communication Lab. Project)

Organizing Meeting/Seminars/Conferences

- Committee Member, 26. Signal Processing and Communications Applications Conference (SIU), 2-5 May 2018, İzmir, Turkey.
- Committee Member, Artificial Intelligence Seminar (organized by Chamber of Electrical Engineering of Turkey), 7 December 2017, İzmir, Turkey.
- Special Session Organizer, 14th New challenges for Device-to-Device communications in 5G and Beyond 5G networks in International Symposium on Wireless Communication Systems (ISWCS), August 2017, Bologna, Italy.
- Committee Member, V. Communications Technologies National Symposium (organized by Chamber of Electrical Engineering of Turkey), 16-17 May 2013, İzmir, Turkey.
- Special Session Chair, IEEE 9th International Symposium on Wireless Communication Systems (ISWCS), August 2012, Paris, France.
- ‘Nonlinear systems, Classification of receivers and Introduction to Cognitive radios’, Seminar by Assoc. Dr. Aarne Mammela (VTT, Oulu, Finland), 2-4 August 2006, İzmir, Turkey.
- ‘Concatenated codes and iterative decoding’, Seminar by Assist. Dr. Didier Le Ruyet (CNAM, Paris, France), İzmir, Turkey, 8-15 April 2006.

Attended Conferences:

- 15th International Symposium on Wireless Communication Systems (ISWCS), Lisbon, Portugal, August 2017.
- 14th International Symposium on Wireless Communication Systems (ISWCS), Bologna, Italy, August 2017.
- 27th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Valencia, Spain, September 2016.
- 12th International Symposium on Wireless Communication Systems (ISWCS), Brussels, Belgium, August 2015.

- 23th Signal Processing and Communications Applications Conference (SIU), May 2015, Malatya, Turkey.
- 11th International Symposium on Wireless Communication Systems (ISWCS), Barcelona, Spain, August 2014.
- IEEE Wireless Communications and Networking Conference (WCNC), İstanbul, Turkey, April 2014.
- IEEE Vehicular Technology Conference (VTC), Dresden, Germany, June 2013.
- 9th International Symposium on Wireless Communication Systems (ISWCS), Paris, France, August 2012.
- IEEE Signal Processing and Applications for Wireless Communications (SPAWC), İzmir, Turkey, June 2012.
- IEEE International Communication Conference (ICC), Ottawa, Canada, June 2012.
- IEEE Wireless Communication and Networking (WCNC), Paris, France, April 2012.
- European Signal Processing Conference (EUSIPCO), Barcelona-Spain, 29 August-2 September 2011.
- IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), İstanbul, Turkey, 26-29 September 2010.
- 7th International Symposium on Wireless Communication Systems (ISWCS), 19-22 September 2010, York, UK.
- 17th Signal Processing and Communications Applications Conference (SIU), April 2009, Antalya, Turkey.
- 16th Signal Processing and Communications Applications Conference (SIU), April 2008, Didim, Turkey.
- International ITG Workshop on Smart Antennas (WSA), 26-27 February 2008, Darmstadt, Germany.
- IEEE International Conference on Communications (ICC), Glasgow, UK, 24-28 June 2007.
- 13th European Wireless Conference (EWC), 1-4 April 2007, Paris, France.
- IEEE International Conference on Communications (ICC), 11-15 June 2006, İstanbul, Turkey.
- 13th European Signal Processing Conference (EUSIPCO), 4-8 September 2005, Antalya, Turkey.
- 9th International OFDM Workshop, 15-16 September 2004, Dresden, Germany.
- 2nd COST273 Workshop on Broadband Wireless Local Access, 20-22 May 2003, Paris, France.
- 11th Signal Processing and Communications Applications Conference (SIU), 18-20 June 2003, İstanbul, Turkey.
- 19th GRETSI Symposium on Signal and Image Processing, 8-11 September 2003, Paris, France.
- 10th Signal Processing and Communications Applications Conference (SIU), 12-14 April 2002, Denizli, Turkey.
- 7th Signal Processing and Communications Applications Conference (SIU), 16-19 June 1999, Ankara, Turkey.

Attended Activities:

- Standardisation in the 21st century: societal, economic and educational aspects European Commission meets with Academia, Brussels, Belgium, 16 May 2017.
- IEEE Turkey Section Meeting, İstanbul, Turkey, April 2017.

- 3th Communications Technologies Workshop (organized by Aselsan A.Ş.), 14 November 2016, Ankara, Turkey.
- 2nd Argela Communications Workshop, 'Local and Global Improvements on 5G', organized by Argela/Turk Telekom, Istanbul, Turkey, May 2016.
- 'IEEE Turkey Section Meeting', Ankara, Turkey, April 2016.
- 1th Argela Communications Workshop, 'SDN, NFV, CloudRAN and Other Enabling Technologies on the Path Towards 5G', organized by Argela/Turk Telekom, Istanbul, Turkey, March 2015.
- 2th Communications Technologies Workshop (organized by Aselsan A.Ş.), 18-19 November 2013, Ankara, Turkey.
- V. Communications Technologies National Symposium (organized by Chamber of Electrical Engineering of Turkey), 16-17 May 2013, İzmir, Turkey.
- 3rd University Collaboration for Research and Development Workshop organized and supported by Turk Telekom, Sapanca, Turkey, September 2012.
- IEEE ComSoc Radio Communication Technical Committee Meeting, Ottawa, Canada, June 2012.
- Workshop on Information Theory and Coding for Cooperative Network, Paris, France, March 2012.
- 2nd University Collaboration for Research and Development Workshop organized and supported by Turk Telekom, Sapanca, Turkey, September 2011.
- Workshop on '10 years of Cognitive Radios: Reviews and Future Works', Paris, France, September 2011.
- Workshop on 'New frontier technological in industrial research for telecommunications', Paris, France, September 2011.
- 'A Practical Assessment of Interference Alignment', by Prof. Dr. R. Heath, LSS-Supelec, Paris, France, September 2011.
- 1st University Collaboration for Research and Development Workshop organized and supported by Turk Telekom, Sapanca, Turkey, September 2010.
- E-Challenges, İstanbul, Turkey, 21-23 October 2009 (supported by The Scientific and Technological Research Council of Turkey).
- Human Resources Strategies for Science and Technology Workshop, 23-25 September 2008, İstanbul, Turkey (organized and supported by The Scientific and Technological Research Council of Turkey).
- FP7-Information and Communication Technologies Turkey, Conference organized by EU-HAGRID project, 23 January 2008, İstanbul, Turkey.
- FP6-Wireless Project and Possible Research Collaborations Meeting, VTT, Oulu, Finland, 23-28 April 2006.
- 'NEWCOM autumn school: Estimation theory for wireless communications', ENST, Paris, France, October 2005.
- Wireless Communications and Security Workshop (WINS), 20-22 December 2002, İzmir, Turkey.
- 'COST 258: International Seminar on Advanced Communication Technologies', Antalya, Turkey, May 2002.
- 'Mobile Communications' by Prof. Dr. Marie-Laure Boucheret and Prof. Dr. Gerard Maral, ENST, Toulouse, France, June 2001.
- 'Mobile Satellite Communications' by Prof. Dr. Daniel Roviras, ENST, Toulouse, France, July 2000.
- 'High Performance Communication Networks', Sabancı University, İstanbul, Turkey, December 1999.

- ‘Space Techniques Training’, Turkish Telekom, Ankara, Turkey, May 1999.

BOOK/BOOK CHAPTER

[B1] **B. Özbek**, D. Le Ruyet, “Feedback strategies for wireless communication”, Springer-Engineering Series Book, Springer Science+Business Media New York, U.S.A, 350 pages, December 2014, DOI:10.1007/978-1-4614-7741-9.

[B2] D. Le Ruyet, **B. Özbek**, “Resource Management Techniques for OFDMA” in “Orthogonal Frequency Division Multiple Access Fundamentals and Applications”, Editors: T. Jiang, L. Song, Y. Zhang, Auerbach Publications, Taylor & Francis Group, pp. 101-129, April 2010.

JOURNALS (SCI/SCI Expanded)

[J17] **B.Özbek**, G.K.Kurt, 'Spatial Signature for Secure MISO-OFDM Systems', IET Electronics Letters, vol.54, pp. 601-603 March 2018. doi:10.1049/el.2018.0545.

[J16] **B. Özbek**, Ö.Özdoğan, G.K.Kurt, ‘Secure multiuser MISO communication systems with limited feedback link’, Springer Annals of Telecommunications, vol.73, pp. 381-390, June 2018. doi: 10.1007/s12243-018-0627-6.

[J15] İ. Baştürk, **B. Özbek**, 'Channel and Queue Aware Joint Relay Selection and Resource Allocation for MISO-OFDMA Based User-Relay Assisted Cellular Networks', Springer Telecommunication Systems, vol.67, pp.619-633, April 2018. 10.1007/s11235-017-0363-7. (First online July 2017)

[J14] **B. Özbek**, M.Pichella, D. Le Ruyet, 'Dynamic shared spectrum allocation for underlaying Device-to-Device communications', IEEE Wireless Communications Magazine, Volume: 24, Issue: 5, pp.88-93, 27 October 2017. doi:10.1109/MWC.2017.1700064.

[J13] O.A.Topal, G.K.Kurt, **B. Özbek**, 'Key Error Rates in Physical Layer Key Generation: Theoretical Analysis and Measurement Based Verification', IEEE Wireless Communications Letters, August 2017. doi:10.1109/LWC.2017.2740290.

[J12] **B. Özbek**, U.Bayrak, ' Joint Beamforming and Power Control Technique for Femtocell Networks', Wireless Personal Communications, April 2017. doi: 10.1007/s11277-017-4131-5.

[J11] E. A. Beyazıt, **B. Özbek**, D. Le Ruyet, “On Stream Selection for Interference Alignment with Limited Feedback in Heterogeneous Networks”, Wiley Transactions on Emerging Telecommunications Technologies (ETT), vol. 27, no. 11 pp. 1461–1471, November 2016. doi:10.1002/ett.3074.

[J10] İ. Baştürk, **B. Özbek**, “Iterative Channel Estimation for Higher Order Modulated STBC-OFDM Systems with Reduced Complexity”, KSII Transactions on Internet and Information Systems, vol. 10, no. 6, pp. 2446-2462, June 2016.doi: 10.3837/tiis.2016.06.001.

[J9] İ. Baştürk, **B. Özbek**, “Radio Resource Management for User-Relay Assisted OFDMA-Based Wireless Networks”, Elsevier AEU-International Journal of Electronics and Communications, vol. 70, Issue 5, pp. 643–651, May 2016. doi: 10.1016/j.aeue.2016.01.021.

[J8] E. A. Beyazıt, **B. Özbek**, D. Le Ruyet, “On stream selection for interference alignment in heterogeneous networks”, *Eurasip Journal on Wireless Communications and Networking*, March 2016. doi: 10.1186/s13638-016-0575-7.

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