

## PUBLICATIONS

### Book Chapters

[B1] 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

[J4] **B. Özbek**, D. Le Ruyet, H. Khanfir, "[Performance evaluation of multicast MISO-OFDM systems](#)", Annals of Telecommunications, Springer, vol. 63, no. 5-6, pp. 295-305, June 2008.

[J3] **B. Özbek**, D. Le Ruyet, "[Low complexity ZF receiver for orthogonal SFBC-OFDM in broadband wireless channels](#)", IET Electronics Letters, vol. 42, no. 8, pp. 479-481, April 2006.

[J2] D. Le Ruyet, **B. Özbek**, "[MIMO and space time codes](#)", Revue de l'Electricité et de l'Electronique (REE), vol. 4, pp. 69-82, April 2005. (in French)

[J1] **B. Özbek**, R. Yılmaz, "[The adaptive channel estimation for STBC-OFDM systems](#)", İstanbul University - Journal of Electrical & Electronics Engineering, vol. 5, no. 1, pp. 1333-1340, 2005.

### International Conferences

[C17] E. Aycan, **B. Özbek**, "Interference scenarios and capacity performances for femtocell networks", 7th International Conference on Electrical and Electronics Engineering, 1-4 December 2011, Bursa, Turkey.

[C16] **B. Özbek**, D. Le Ruyet, "[Adaptive bit partitioning strategy for cell-edge users in multi-antenna multicell networks](#)", IEEE 12th International Workshop on Signal Processing in Advanced Wireless Communications (SPAWC), pp. 456-460, 26-29 June 2011, San Francisco, CA, USA.

[C15] **B. Özbek**, D. Le Ruyet, "[Adaptive limited feedback for intercell interference cancellation in cooperative downlink multicell networks](#)", 7th International Symposium on Wireless Communication Systems (ISWCS), pp. 81-85, 19-22 September 2010, York, UK.

[C14] **B. Özbek**, D. Le Ruyet, "[Adaptive resource allocation for SDMA-OFDMA systems with genetic algorithm](#)", 6th International Symposium on Wireless Communication Systems (ISWCS), pp. 438-442, 7-10 September 2009, Tuscany, Italy.

[C13] İ. Baştürk, **B. Özbek**, "[Iterative EM-based channel estimation for STBC-OFDM](#)", IEEE Wireless Communication and Networking Conference (WCNC), 5-8 April 2009, Budapest, Hungary.

- [C12] **B. Özbek**, D. Le Ruyet, "[Reduced feedback strategies for SDMA-OFDMA systems](#)", IEEE International Conference on Communications (ICC), pp. 1-6, 14-18 June 2009, Dresden, Germany.
- [C11] D. Le Ruyet, H. Khanfir, **B. Özbek**, "[Performance of semi-orthogonal user selection for multiuser MISO systems](#)", IEEE 9th Workshop on Signal Processing Advances in Wireless Communications (SPAWC), pp. 321-325, 6-9 July 2008, Recife, Brazil.
- [C10] H. Khanfir, D. Le Ruyet, **B. Özbek**, "[Semi-orthogonal user selection for MISO systems with quantized feedback](#)", International ITG Workshop on Smart Antennas (WSA), pp. 169-173, 26-27 February 2008, Darmstadt, Germany.
- [C9] D. Le Ruyet, **B. Özbek**, "[Partial and analog feedback for MISO precoding systems](#)", IEEE International Conference on Communications (ICC), pp. 2767-2772, 24-28 June 2007, Glasgow, Scotland.
- [C8] D. Le Ruyet, **B. Özbek**, H. Khanfir, "[Performance of multicast MISO-OFDM systems](#)", 13th European Wireless Conference (EWC), 1-4 April 2007, Paris, France.
- [C7] **B. Özbek**, D. Le Ruyet, H. Khiari, "[Adaptive resource allocation for multicast OFDM systems with multiple transmit antennas](#)", IEEE International Conference on Communications (ICC), pp. 4409-4414, 11-15 June 2006, İstanbul, Turkey.
- [C6] **B. Özbek**, D. Le Ruyet, C. Panazio, "[Pilot-symbol-aided iterative channel estimation for OFDM-based systems](#)", 13th European Signal Processing Conference (EUSIPCO), 4-8 September 2005, Antalya, Turkey.
- [C5] **B. Özbek**, D. Le Ruyet, "[Performance and complexity analysis of suboptimal MIMO detectors](#)", IEEE 61st Vehicular Technology Conference (VTC), vol. 2, pp. 929-933, 30 May-1 June 2005, Stockholm, Sweden.
- [C4] **B. Özbek**, D. Le Ruyet, "Performance analysis of coded SFBC-OFDM systems with four transmit antennas", 9th International OFDM Workshop, 15-16 September 2004, Dresden, Germany.
- [C3] **B. Özbek**, D. Le Ruyet, "Channel compensation for SFBC-OFDM systems in broadband wireless channels", 9th International OFDM Workshop, 15-16 September 2004, Dresden, Germany.
- [C2] D. Le Ruyet, T. Berzotti, **B. Özbek**, "[Breadth first algorithms for APP detectors over MIMO channels](#)", IEEE International Conference on Communications (ICC), vol.2, pp. 926-930, 20-24 June 2004, Paris, France.
- [C1] **B. Özbek**, D. Le Ruyet, M. Bellanger, "[On space-frequency block codes for unequal channels](#)", 2nd COST273 Workshop on Broadband Wireless Local Access, 20-22 May 2003, Paris, France.

## National Conferences

[K15] **B. Özbek**, D. Le Ruyet, “Sur le partitionnement des bits des voies de retour des systèmes cellulaires coopératifs multi-antennes”, 23rd Colloque GRETSI, 5-8 September 2011, Bordeaux, France. (in French)

[K14] İ. Baştürk, **B. Özbek**, “[Fair resource allocation for multi-user MISO-OFDMA systems](#)”, IEEE 19th Conference on Signal Processing and Communications Applications (SIU), pp. 506-509, 20-22 April 2011, Antalya, Turkey. (in Turkish)

[K13] E. Aycan, **B. Özbek**, “[Capacity performances of home base stations with multiple antennas in indoor environment](#)”, IEEE 19th Conference on Signal Processing and Communications Applications (SIU), pp. 514-517, 20-22 April 2011, Antalya, Turkey. (in Turkish)

[K12] R. F. Üstok, **B. Özbek**, “[Spectrum sensing based on cyclostationary feature detection for cognitive radios with multiple antennas](#)”, IEEE 19th Conference on Signal Processing and Communications Applications (SIU), pp. 550-553, 20-22 April 2011, Antalya, Turkey. (in Turkish)

[K11] **B. Özbek**, D. Le Ruyet, “[Transmit beamforming techniques for multicast wireless communication systems](#)”, IEEE 17th Signal Processing and Communications Applications Conference (SIU), pp. 241-244, 9-11 April 2009, Antalya, Turkey. (in Turkish)

[K10] İ. Baştürk, **B. Özbek**, “[Performance of EM-based channel estimation for STBC-OFDM systems](#)”, IEEE 17th Signal Processing and Communications Applications Conference (SIU), pp. 85-88, 9-11 April 2009, Antalya, Turkey. (in Turkish)

[K9] R. F. Üstok, **B. Özbek**, “[Spectrum sensing based on energy detection for cognitive radio systems with multiple antennas](#)”, IEEE 17th Signal Processing and Communications Applications Conference (SIU), pp. 396-399, 9-11 April 2009, Antalya, Turkey. (in Turkish)

[K8] **B. Özbek**, D. Le Ruyet, “[Sum-rate maximized adaptive subcarrier and bit allocation for multiuser OFDM systems with genetic algorithm](#)”, IEEE 16th Signal Processing and Communications Applications Conference (SIU), 20-22 April 2008, Didim, Turkey. (in Turkish)

[K7] İ. Baştürk, **B. Özbek**, “[Pilot based iterative channel estimation for OFDM systems](#)”, IEEE 16th Signal Processing and Communications Applications Conference (SIU), 20-22 April 2008, Didim, Turkey. (in Turkish)

[K6] D. Le Ruyet, **B. Özbek**, H. Khanfir, “Study on performance of MISO communication systems with feedback information”, 21st Colloque GRETSI, 11-14 September 2007, Troyes, France. (in French)

[K5] İ. Baştürk, **B. Özbek**, “[Performance of pilot-based EM channel estimation for OFDM systems](#)”, IEEE 15th Signal Processing and Communications Applications Conference (SIU), 11-13 June 2007, Eskişehir, Turkey. (in Turkish)

[K4] **B. Özbek**, R. Yılmaz, "Adaptive channel estimation for space-time block coded OFDM systems with 3 transmit antennas", 11th Signal Processing and Communications Applications Conference (SIU), June 2003, İstanbul, Turkey. (in Turkish)

[K3] **B. Özbek**, D. Le Ruyet, M. Bellanger, "[Non-orthogonal space-time block coding design for 3 transmit antennas](#)", 19th GRETSI Symposium on Signal and Image Processing, 8-11 September 2003, Paris, France.

[K2] **B. Özbek**, R. Yılmaz, "Performance of space-frequency block coded OFDM systems in frequency selective channels", 10th Signal Processing and Communications Applications Conference, (SIU), 12-14 June 2002, Denizli, Turkey. (in Turkish)

[K1] **B. Öngen**, R. Yılmaz, "Image compression with wavelet transform and hierarchical vector quantization", 7th Signal Processing and Communications Applications Conference (SIU), 16-19 June 1999, Ankara, Turkey. (in Turkish)