

1. Name and affiliation

Ana Garcia Armada

University Carlos III of Madrid, Spain

Senior Member, IEEE



2. Brief bio

[Ana Garcia Armada](#) received the Ph.D. degree in electrical engineering from the Polytechnical University of Madrid in February 1998. She is currently Professor at [University Carlos III of Madrid](#), Spain, where she has occupied a variety of management positions (Head of Signal Theory and Communications Department, Vice-dean of Electrical Engineering, Deputy Vice-Chancellor of International Relations, among others). She is leading the [Communications Research Group](#) at this university. She has participated (and coordinated most of them) in more than 30 national and 10 international research projects as well as 20 contracts with the industry, all of them related to wireless communications. She is the co-author of eight book chapters on wireless communications and signal processing. She has published around 150 papers in international journals and conference proceedings and she holds four patents. She has contributed to international standards organizations such as ITU and ETSI and is member of the expert group of the European 5G infrastructure public private partnership (5G PPP). She serves on the editorial boards of Physical Communication, IET Communications and IEEE Communications Letters. She has served on the TPC of more than 40 conferences and she has served in the organizing committee of several international conferences (e.g. IEEE VTC, EuCNC). She is an active member of IEEE ComSoc Communication Theory Committee, Newsletter Editor of the IEEE ComSoc Signal Processing and Consumer Electronics Committee, and Secretary of the IEEE ComSoc Women in Communications Engineering Standing Committee. She has been visiting scholar at Stanford University (CA, USA), Alcatel-Lucent Bell Labs (NJ, USA) and University of Southampton (UK). She has received an Award to Best Practices in Teaching in 2006 and a Young Researchers Excellence Award in 2010, both from University Carlos III of Madrid. She has received the 3rd place Bell Labs Innovation Prize in 2014. Her main interests are multi-carrier and multi-antenna techniques and signal processing applied to wireless communications.

3. Conference organization experience

Ana Garcia Armada has served on the TPC of more than 40 conferences and, in particular, in most of the editions of IEEE ICC and Globecom for the last ten years.

She has served/is serving in the organizing committee of the following conferences and workshops.

- IEEE Vehicular Technology Conference Spring (Porto, Portugal, June 2018), Track Chair
- IEEE 5G Summit (Lisbon, January 2017), Steering Committee.
- The Third International Symposium on Ubiquitous Networking (UNET) 2017, TPC Chair
- IEEE Third Women's Workshop on Communications and Signal Processing (Washington DC, December 2016).

- European Conference on Networks and Communications (EuCNC) 2015, Track Co-Chair for the Wireless Communications Track
- International Conference on Mobile Lightweight Wireless Systems (MOBILIGHT) 2010. Tutorials Chair.

4. Publication record

4.1 Journal papers

- [1] M. Morales Céspedes, J. Plata-Chaves, D. Toumpakaris, S. A. Jafar, Ana García Armada, "[Cognitive Blind Interference Alignment for Macro-Femto Networks](#)," IEEE Transactions on Signal Processing, Vol. 65, no. 19, pp. 5121-5136, October 2017.
- [2] Víctor P. Gil Jiménez, Alejandro Lancho Serrano, Borja Genovés Guzmán, Ana Garcia Armada, "[Learning Mobile Communications Standards through Flexible Software Defined Radio Base Stations](#)", IEEE Communications Magazine, Vol. 55, no. 5, pp. 116-123, May 2017.
- [3] M. Sánchez-Fernández, A. Tulino, J. Llorca, E. Rajo, A. Garcia Armada, " [Blended Antenna Wearables for an Unconstrained Mobile Experience](#)", IEEE Communications Magazine, Vol.: 55, no. 4, pp. 160- 168, April 2017.
- [4] Victor P. Gil Jimenez, Ana Garcia Armada, Francisco Hernando Gallego, Sidney González Pizarro, "[Novel Orthogonal Multi-sequences for an efficient jamming on the UMTS signal](#)", EURASIP Journal on Wireless Communications and Networking, Vol. 2016, pp. 1-8, November 2016.
- [5] Alejandro de la Fuente, Raquel Pérez Leal, Ana Garcia Armada, "[New technologies and trends for next generation mobile broadcasting services](#)", IEEE Communications Magazine, Vol. 54, no. 11, pp. 217- 223, November 2016.
- [6] Roberto Corvaja, Ana Garcia Armada, "[Phase Noise Degradation in Massive MIMO Downlink with Zero-forcing and Maximum Ratio Transmission Pre-coding](#)", IEEE Transactions on Vehicular Technology, Vol. 65, no. 10, pp. 8052-8059, October 2016.
- [7] M. Morales-Céspedes, J. Plata-Chaves, D. Toumpakaris, S. A. Jafar, A. Garcia-Armada, "[Blind Interference Alignment for Cellular Networks](#)", IEEE Transactions on Signal Processing, Vol. 63, no. 1, pp. 41-56, January 2015.
- [8] J.J. Escudero-Garzás, M. Hong, A. Garcia, A. Garcia-Armada, "[Interference Pricing Mechanism for Downlink Multicell Coordinated Beamforming](#)", IEEE Transactions on Communications, Vol. 62, no. 6, pp. 1871-1883, June 2014.
- [9] Roberto Corvaja, J. José Garcia Fernández, Ana Garcia Armada, "[Achievable Rate and Fairness in Coordinated Base Station Transmission](#)", IEEE Communications Letters, Vol. 18, no. 4, pp. 584-587, April 2014.
- [10] J. Joaquín Escudero-Garzás, Bertrand Devillers, Ana Garcia Armada, "[Fairness-Adaptive Goodput-based Resource Allocation in OFDMA Downlink with ARQ](#)", IEEE Transactions on Vehicular Technology, Vol. 63, no. 3, pp. 1178-1192, March 2014.
- [11] Roberto Corvaja, J. José Garcia Fernández, Ana Garcia Armada, "[Mean Achievable Rates in Clustered Coordinated Base Station Transmission with Block Diagonalization](#)", IEEE Transactions on Communications, Vol. 61, no. 8, pp. 3483-3493, August 2013.

- [12] Víctor P. Gil Jiménez, Atilio Gameiro, Ana Garcia Armada, "[Space-Time Code Diversity by Phase Rotation in Multi-carrier Multi-user Systems](#)", EURASIP Journal on Wireless Communications and Networking, Vol. 2013, pp. 1-9, May 2013.
- [13] J. Joaquín Escudero-Garzás, Ana Garcia Armada, Gonzalo Seco-Granados, "[Fair Design of Plug-in Electric Vehicles Aggregator for V2G Regulation](#)", IEEE Transactions on Vehicular Technology, Vol. 61, no. 8, pp. 3406-3419, October 2012.
- [14] Màrius Caus, Ana I. Pérez Neira, Ana Garcia Armada, "[A Discrete Bit Loading Algorithm for FBMC/OQAM](#)", IEEE Signal Processing Letters, Vol. 19, no. 6, pp. 324-327, June 2012.
- [15] Ana Garcia Armada, Mounir Ghogho, Robert W. Heath Jr., Ying-Chang Liang, Constantinos Papadias, Atul Salvekar, "[Special Issue on Advances in MIMO-OFDM](#)", Physical Communication, Vol. 4, no. 4, pp. 251-253, December 2011.
- [16] Ana Garcia Armada, Matilde Sánchez-Fernández, Roberto Corvaja, "[Constrained Power Allocation Schemes for Coordinated Base Station Transmission using Block Diagonalization](#)", EURASIP Journal on Wireless Communications and Networking, Vol. 2011, pp. 1-19, October 2011.
- [17] Víctor P. Gil Jiménez, Y. Jabrane, Ana Garcia Armada, B. Es Said, A. Ouahman, "[High Power Amplifier Pre-distorter based on Neural-Fuzzy Systems for OFDM signals](#)", IEEE Transactions on Broadcasting, Vol. 57, no. 1, pp. 149 -158, March 2011.
- [18] Li Hong, Ana Garcia Armada, "[Bit Error Rate Performance of MIMO MMSE Receivers in Correlated Rayleigh Flat-fading Channels](#)", IEEE Transactions on Vehicular Technology, Vol. 60, no. 1, pp. 313-317, January 2011.
- [19] Víctor P. Gil Jiménez, Y. Jabrane, Ana Garcia Armada, B. Es Said, A. Ouahman, "[Reduction of the Envelope Fluctuations of Multi-Carrier modulations using Adaptive Neural Fuzzy Inference Systems](#)", IEEE Transactions on Communications, Vol. 59, no. 1, pp. 19 -25, January 2011.
- [20] Víctor P. Gil Jiménez, Carlos Miguel Ribeiro, Atilio Gameiro, Ana Garcia Armada, "[Effects of Channel estimation on multi-user Virtual MIMO-OFDMA Relay-based networks](#)", EURASIP Journal on Wireless Communications and Networking, Vol. 2010, pp. 1-13, November 2010.
- [21] Víctor P. Gil Jiménez, Atilio Gameiro, Ana Garcia Armada, "[Virtual Maximum Ratio Transmission for Downlink OFDMA Relay-based Networks](#)", Wireless Personal Communications, Vol. 2010, pp. 1 -19, July 2010.
- [22] Roberto Corvaja, Ana Garcia Armada, "[SINR Degradation in MIMO-OFDM Systems with Channel Estimation Errors and Partial Phase Noise Compensation](#)", IEEE Transactions on Communications, Vol. 58, no. 8, pp. 2199-2203, August 2010.
- [23] Younes Jabrane, Víctor P. Gil Jiménez, Ana Garcia Armada, Brahim Ait Es Said, Abdellah Ait Ouahman, "[Reduction of Power Envelope Fluctuations in OFDM Signals by using Neural Networks](#)", IEEE Communications Letters, Vol. 14, no. 7, pp. 599 -601, July 2010.
- [24] Víctor P. Gil Jiménez, M. Julia Fernández-Getino Garcia, Ana Garcia Armada, Rafael P. Torres Jiménez, Juan José Garcia Fernández, Matilde P. Sánchez Fernández, Marta Domingo Gracia, Oscar Fernández Fernández, "[A MIMO-OFDM Testbed, Channel Measurements and System Considerations for Outdoor-Indoor WiMAX](#)", EURASIP Journal on Wireless Communications and Networking, Vol. 2010, pp. 1-13, January 2010.

- [25] Khalid El Baamrani, Víctor P. Gil Jiménez, Ana Garcia Armada, Abellah Ait Ouahman, "[Multi-user Sub-carrier and Power allocation algorithm for OFDM/Offset-QAM](#)", IEEE Signal Processing Letters, Vol. 17, no. 2, pp. 161-164, February 2010.
- [26] Víctor P. Gil Jiménez, Ana Garcia Armada, "[Field Measurements and Guidelines for the Application of Wireless Sensor Networks to the Environment and Security](#)", Sensors, Vol. 9, no. 12, pp. 10309-10325, December 2009.
- [27] Roberto Corvaja, Ana Garcia Armada, "[Joint Channel and Phase Noise Compensation for OFDM in Fast Fading Multipath Applications](#)", IEEE Transactions on Vehicular Technology, Vol. 58, no. 2, pp. 636-643, February 2009.
- [28] Roberto Corvaja, Ana Garcia Armada, "[Effect of Multipath and Antenna Diversity in MIMO-OFDM Systems with Imperfect Channel Estimation and Phase Noise Compensation](#)", Physical Communication, Vol. 1, no. 4, pp. 288-297, December 2008.
- [29] Anelia Mitseva, Petia Todorova, Ramon Aguero, Ana Garcia Armada, Christos Panayiotou, Andreas Timm-Giel, Leonardo Maccari, Neeli R. Prasad, "[CRUISE research activities towards Ubiquitous Intelligent Sensing Environments](#)", IEEE Wireless Communications, Vol. 15, no. 4, pp. 52-60, August 2008.
- [30] Víctor P. Gil Jiménez, M. Julia Fernández-Getino Garcia, Matilde P. Sánchez-Fernández, Ana Garcia Armada, "[Efficient Implementation of Complementary Golay Sequences for PAR Reduction and Forward Error Correction in OFDM-based WLAN systems](#)", International Journal of Electronics and Communications, Vol. 62, no. 9, pp. 683-694, August 2008.
- [31] Miroslav Janošov, Miroslav Husák, Peter Farkaš, Ana Garcia Armada, "[New \[47,15,16\] Linear Binary Block Code](#)", IEEE Transactions on Information Theory, Vol. 54, no. 1, pp. 423-424, January 2008.
- [32] Víctor P. Gil Jiménez, Thomas Eriksson, Ana Garcia Armada, M. Julia Fernández-Getino Garcia, Tony Ottosson and Arne Svensson, "[Methods for Compression of Feedback in Adaptive Multicarrier 4G Schemes](#)", Wireless Personal Communications, Vol. 47, no. 1, pp. 101-112, October 2008.
- [33] Carlos Ribeiro, M. Julia Fernández-Getino Garcia, Víctor P. Gil Jiménez, Atílio Gameiro and Ana Garcia Armada, "[Uplink Channel Estimation for Multi-user OFDM-based Systems](#)", Wireless Personal Communications, Vol. 47, no. 1, pp. 125-136, October 2008.
- [34] Matilde P. Sánchez-Fernández, Miguel Aguilera-Forero, Ana Garcia Armada, "[Performance Analysis and Parameter Optimization of DLL and MEDLL in Fading Multipath Environments for Next Generation Navigation Receivers](#)", IEEE Transactions on Consumer Electronics, Vol. 53, no. 4, pp. 1302-1308, November 2007.
- [35] J. Joaquín Escudero Garzás, Carlos Bousoño Calzón and Ana Garcia Armada, "[An Energy-Efficient Adaptive Modulation suitable for Wireless Sensor Networks with SER and Throughput Constraints](#)", EURASIP Journal on Wireless Communications and Networking, Vol. 2007, pp. 1-7, May 2007.
- [36] K. El Baamrani, A. A. Ouahman, V. P. G. Jiménez, Ana Garcia Armada, S. Allaki, "[Subcarrier and Power Allocation for the Downlink of Multiuser OFDM Transmission](#)", Wireless Personal Communications, Vol. 39, no. 4, pp. 457-465, December 2006.

- [37] Ana Garcia-Armada, B. Bardón Rodríguez, V. P. Gil-Jiménez, M. P. Sánchez – Fernández, [“Modelling, performance analysis and design of WPAN systems”](#), Wireless Personal Communications, Vol. 42, no. 4, pp. 367-386, August 2007.
- [38] Víctor P. Gil-Jiménez, Ana Garcia Armada, [“Multi-user synchronisation in ad-hoc OFDM-based Wireless Personal Area Networks”](#), Wireless Personal Communications, Vol. 40, no. 3, pp. 387-399, February 2007.
- [39] Ana Garcia Armada, [“SNR Gap A, pproximation for M-PSK-based Bit Loading”](#), IEEE Transactions on Wireless Communications, Vol. 5, no. 1, pp. 57-60, January 2006.
- [40] Víctor P. Gil Jiménez, M.J. Fernández-Getino. Francisco J. González Serrano, Ana Garcia Armada, [“Design and implementation of synchronization and AGC for OFDM-based WLAN receivers”](#), IEEE Transactions on Consumer Electronics, Vol. 50, no. 4, pp. 1016-1025, November 2004.
- [41] J.L. Rojo-Álvarez, M. Martínez-Ramón, A.R. Figueiras-Vidal, A. Garcia-Armada, A. Artés-Rodríguez, [“A robust su, pport vector algorithm for nonparametric spectral analysis”](#), IEEE Signal Processing Letters, Vol. 10, no. 11, pp. 320-323, November 2003.
- [42] Manuel Lobeira, Ana Garcia Armada, Rafael Torres, José Luis Garcia, [“Channel modelling and characterisation at 17 GHz for indoor broadband WLAN”](#), IEEE Journal on Selected Areas in Communications, Vol. 20, no. 3, pp. 593-601, April 2002.
- [43] Ana Garcia Armada, [“Understanding the effects of phase noise in orthogonal frequency division multiplexing \(OFDM\)”](#), IEEE Transactions on Broadcasting, Vol. 47, no. 2, pp. 153-159, June 2001.
- [44] Juan Carlos de Mateo Garcia, Ana Garcia Armada, [“Effects of Bandpass Sigma-Delta Modulation on OFDM Signals”](#), IEEE Transactions on Consumer Electronics, Vol. 45, no. 2, pp. 318-326, May 1999.
- [45] Ana Garcia Armada, Beatriz Bardón, Miguel Calvo, [“Parameter Optimization and Simulated Performance of a DVB-T Digital Television Broadcasting System”](#), IEEE Transactions on Broadcasting, Vol. 44, no. 1, pp. 131-138, March 1998.
- [46] Sergio Merchán, Ana Garcia Armada, José Luis Garcia, [“OFDM Performance in Amplifier Nonlinearity”](#), IEEE Transactions on Broadcasting, Vol. 44, no. 1, pp. 106-114, March 1998.
- [47] Ana Garcia Armada, Miguel Calvo, [“Phase noise and sub-carrier spacing effects on the performance of an OFDM communication system”](#), IEEE Communications Letters, Vol. 2, no. 1, pp. 11-13, January 1998.
- [48] Ana Garcia Armada, Miguel Calvo, [“Rapid Prototyping of a Test Modem for Terrestrial Broadcasting of Digital Television”](#), IEEE Transactions on Consumer Electronics, Vol. 43, no. 4, pp. 1100-1109, November 1997.
- [49] Sergio Merchán, Ana Garcia Armada, José Luis Garcia, [“Performance of Digital Collective Antenna Systems in the Presence of Phase Noise and Clock Jitter”](#), IEEE Transactions on Consumer Electronics, Vol. 43, no. 2, pp. 188-196, May 1997.

4.2 Recent conference papers (since 2011)

- [C1] Roberto Corvaja, Ana García Armada, Miguel A. Vázquez, Ana Pérez Neira, , “Design of Pre-coding and Combining in Hybrid Analog-Digital Massive MIMO with Phase Noise,” 25th European Signal Processing Conference (EUSIPCO), Kos Island, Greece, September 2017.

- [C2] Víctor Monzón, Ana García Armada, "Analysis of the Performance of a Non-Coherent Large Scale SIMO System Based on M-DPSK Under Rician Fading," 25th European Signal Processing Conference (EUSIPCO), Kos Island, Greece, September 2017.
- [C3] Miguel A. Vázquez, Ana Pérez Neira, Roberto Corvaja, Ana García Armada, M. Angel Lagunas, "Scheduling and Precoding in Hybrid Analog-Digital Multiantenna Spectrum Sharing Systems," 25th European Signal Processing Conference (EUSIPCO), Kos Island, Greece, September 2017.
- [C4] Kun Chen-Hu, Juan Carlos Estrada Jiménez, M. Julia Fernández-Gentino Garcia, Ana Garcia Armada, "Superimposed Training for Channel Estimation in FBMC-OQAM, IEEE Vehicular Technology Conference (VTC-Fall 2017), Toronto, Canada, September 2017.
- [C5] Estefanía Crespo Bardera, Matilde Sánchez Fernández, Ana Garcia Armada, Aaron Garrido Martín, Alfonso Fernández Durán, "Analysis of a LTE-based Textile Massive MIMO Proposal for Public Safety Networks", IEEE Vehicular Technology Conference (VTC-Fall 2017), Toronto, Canada, September 2017.
- [C6] Victor Monzón, Ana Garcia Armada, Mohammed El-Hajjar, Lajos Hanzo, "Performance of a Non-Coherent Massive SIMO M-DPSK System", IEEE Vehicular Technology Conference (VTC-Fall 2017), Toronto, Canada, September 2017.
- [C7] Alejandro Borrajo, Raquel Pérez Leal, Ana Garcia Armada, "Random Access Procedure based on an Adaptive Prioritization Method for Integration of MTC in Mobile Networks", International Symposium on Ubiquitous Networking (UNet'17), Casablanca, Morocco, May 2017.
- [C8] M. Morales Céspedes, J. Plata-Chaves, A. Garcia Armada, Marc Moonen, Luc Vandendorpe, "Can the use of reconfigurable antennas overcome the CSI bottleneck for FDD Massive MIMO", IEEE Wireless Communications and Networking Conference (WCNC), San Francisco, USA, March 2017.
- [C9] Petr Novák, Jan Babjak, Tomas Kot, Zdenko Bobovský, Petr Olivka, Wojciech Moczulski, Anna Timofiejczuk, Marek Adamczyk, Borja Genovés Guzmán, Ana Garcia Armada, Ángel Rodriguez, "TELERESCUER - reconnaissance mobile robot for underground coal mines", Coal Operators Conference, Wollongong, Australia, February 2017.
- [C10] A. Garcia Armada, "Non-coherent Large Scale MIMO. massive but feasible", IEEE 5G Summit, Lisbon, Portugal, January 2017.
- [C11] Alejandro de la Fuente, Felip Riera-Palou, Guillem Femenias, Ana Garcia Armada, "Enhanced Scheduling and Resource Allocation in Multicast OFDMA Systems", Summer School on Spectrum Aggregation and Sharing for 5G Networks, Nice, France, October 2016.
- [C12] B. Genovés Guzmán, M. Adamczyk, A. Timofiejczuk and A. Garcia Armada, "Design of a Sensory and Vision System for a Rescuer Robot in Coal Mine Areas", 6th International Congress on Technical Diagnostics and 5th International Conference on Condition Monitoring of Machinery in Non-Stationary Operations, Gliwice, Poland, September 2016.
- [C13] Kun Chen Hu, Ana Garcia Armada, "SINR Analysis of OFDM and f-OFDM for Machine Type Communications", IEEE 27th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Valencia, Spain, September 2016.
- [C14] Kun Chen Hu, Ana Garcia Armada, Matilde Sánchez Fernández, Antonio Royo, "Prototyping and Measurements for a LiFi System", IEEE 9th Sensor Array and Multichannel Signal Processing Workshop (SAM 2016), Rio de Janeiro, Brasil, July 2016.

- [C15] Alejandro de la Fuente, Carlos M. Lentisco, Luis Bellido, Raquel Pérez Leal, Ana Garcia Armada, Encarna Pastor, Alejandro Garcia Bolívar, "End to End Measurements of Multimedia Streaming Over LTE", European Conference on Networks and Communications (EuCNC), Athens, Greece, June 2016.
- [C16] M. Morales Céspedes, J. Plata-Chaves, A. Garcia Armada, Luc Vadendorpe, "A Blind Interference Alignment scheme for practical *channels*", IEEE International Conference on Communications (ICC), Kuala Lumpur, Malaysia, May 2016.
- [C17] Víctor Monzón Baeza, Juan José Garcia Fernández and Ana Garcia Armada, "Bitloaded Modified Enhanced Subcarrier Index Modulation OFDM for Visible Light Communications", 2nd International Conference on Wireless Communication Systems and Networks (MIC-Wireless 2015), Barcelona, Spain, August 2015.
- [C18] Alejandro de la Fuente, Carlos M. Lentisco, Luis Bellido, Raquel Perez Leal, Encarna Pastor, Ana Garcia Armada, "Analysis of the impact of FEC techniques on a multicast video streaming service over LTE", European Conference on Networks and Communications (EuCNC), Paris, France, January 2015.
- [C19] Víctor Monzón Baeza, Matilde Sánchez-Fernández, Ana Garcia Armada, Antonio Royo, "Testbed for a LiFi System integrated in Streetlights", European Conference on Networks and Communications (EuCNC), Paris, France, January 2015.
- [C20] Ana Garcia Armada, Lajos Hanzo, "A Non-Coherent Multi-User Large Scale SIMO System Relying on M-ary DPSK", IEEE International Conference on Communications (ICC), London, UK, June 2015.
- [C21] Máximo Morales Céspedes, Matilde Sánchez Fernández, Ana Garcia Armada, "Experimental Evaluation of Blind Interference Alignment", Vehicular Technology Conference, VTC2015-Spring, Glasgow, Scotland, May 2015.
- [C22] M. Morales Céspedes, J. Plata-Chaves, D. Toumpakaris, A. Garcia Armada, "Cognitive Blind Interference Alignment for Macro-Femto Cellular Networks", IEEE Globecom, Austin, USA, December 2014.
- [C23] Carlos M. Lentisco, Luis Bellido, Alejandro de la Fuente, Encarna Pastor, Raquel Perez Leal, Ana Garcia Armada, "A model to evaluate MBSFN and AL-FEC techniques in a multicast video streaming service, IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob), Larnaca, Cyprus, October 2014.
- [C24] Juan José Garcia Fernández, Máximo Morales Céspedes, Matilde Sánchez Fernández, Ana Garcia Armada, "Improved Interference Aware Precoding for Cellular Network-MIMO Systems", European Signal Processing Conference (EUSIPCO), Lisbon, Portugal, September 2014.
- [C25] Ana Garcia Armada, Varghese Antony Thomas, Mohammed El-Hajjar, Lajos Hanzo, "Radio-over-Fiber Aided Base Station Coordination for OFDM", IEEE Vehicular Technology Conference VTC2014-Fall, Vancouver, Canada, September 2014.
- [C26] Juan José Garcia Fernández, Ana Garcia Armada, "Characterization of a Simple Threshold to Fight Out of Cluster Interference", European Conference on Networks and Communications (EuCNC), Bologna, Italy, January 2014.
- [C27] Nikolaos Bartzoudis, Oriol Font-Bach, Miquel Payaró, Antonio Pascual-Iserte, Javier Rubio, Juan José Garcia Fernández, Ana Garcia Armada, "Energy Profiling of FPGA-based PHY-layer Building Blocks Encountered in Modern Wireless Communication Systems", IEEE Sensor Array and Multichannel Signal Processing Workshop (SAM), A Coruña, Spain, January 2014.

- [C28] Máximo Morales Céspedes, Jorge Plata-Chaves, Dimitris Toumpakaris, Ana Garcia Armada, "On the Choice of Blind Interference Alignment Strategy for Cellular Systems with Data Sharing", IEEE International Conference on Communications (ICC), Sidney, Australia, June 2014.
- [C29] Alejandro de la Fuente, Ana Garcia Armada, Raquel Pérez Leal, "Joint Multicast/Unicast Scheduling with Dynamic Optimization for LTE Multicast Service", European Wireless, Barcelona, Spain, May 2014.
- [C30] Juan José Garcia Fernández, Ana Garcia Armada, Javier Rubio, Antonio Pascual-Iserte, Oriol Font-Bach, Nikolaos Bartzoudis, "Adaptive Block Diagonalization and User Scheduling With Out of Cluster Interference", European Wireless, Barcelona, Spain, May 2014.
- [C31] Javier Rubio, Antonio Pascual-Iserte, Juan José Garcia Fernández, Ana Garcia Armada, Oriol Font-Bach, Nikolaos Bartzoudis, "Asymptotic Analysis of Multiuser-MIMO Networks with Battery-Constrained Receivers", European Wireless, Barcelona, Spain, May 2014.
- [C32] Máximo Morales Céspedes, Ana Garcia Armada, Jesús Gutiérrez Terán, "Achievable throughput with Block Diagonalization on OFDM indoor demonstrator", European Signal Processing Conference (EUSIPCO), Marrakech, Morocco, September 2013.
- [C33] Alejandro de la Fuente Iglesias, Raquel Pérez Leal, Ana Garcia Armada, "Performance Analysis of eMBMS in LTE Dynamic MBSFN Areas", Opnetwork, Washington DC, USA, August 2013.
- [C34] Máximo Morales Céspedes, Jorge Plata Chaves, Dimitris Toumpakaris, Ana Garcia Armada, "Exploiting Blind Interference Alignment in Cellular Systems", IEEE Communication Theory Workshop (CTW), Phuket, Thailand, June 2013.
- [C35] Felipe Llinares-López, Matilde Sánchez-Fernández, Emilio Parrado-Hernandez, Ana Garcia Armada, "Interference-aware MIMO precoder design with realistic power constraints", IEEE ICC'13 - Workshop Beyond LTE-A, Budapest, Hungary, June 2013.
- [C36] Roberto Corvaja, J. José Garcia Fernández, Ana Garcia Armada, "Partial Coordination in Clustered Base Station MIMO Transmission", IEEE Wireless Communications and Networking Conference (WCNC). Shanghai, China, April 2013.
- [C37] M. Luz Pablo González, Ana Garcia Armada, Matilde Sánchez Fernández, Antonio Pascual Iserte, Miquel Payaró, "Performance of Waterfilling-based Schemes for Interference Cancellation in 4G networks", International Workshop on Cognitive Information Processing (CIP), Baiona, Spain, May 2012.
- [C38] Máximo Morales Céspedes, Ana Garcia Armada, "Green strategies for Block Diagonalization-Network MIMO with Fairness", Workshop on Small Cell Cooperative Communications, Lyon, France, May 2012.
- [C39] Li Hong, Ana Garcia Armada and Angel Lozano, "Bit Loading for MIMO with Statistical Channel Information at the Transmitter and MMSE Receivers", IEEE Wireless Communications and Networking Conference (WCNC). Paris, France, April 2012.
- [C40] Máximo Morales Céspedes, Ana Garcia Armada, "Power minimization in Coordinated Base Station Transmission using Block Diagonalization", International OFDM Workshop. Hamburg, Germany, September 2011.
- [C41] Josep Vidal, Adrián Agustín, Sandra Lagén, Eduard Valera, Olga Muñoz, Ana Garcia Armada, Matilde Sánchez Fernández, "Networked-MIMO Backhauling for QoS-Constrained Relay Transmission", IEEE International Conference on Acoustics, Speech and Signal Processing ICASSP 2011, Prague, Czech Republic, May 2011.

[C42] Máximo Morales Céspedes, Ana García Armada, “Zero-Forcing Coordinated Base Station Transmission for Femtocell Systems”, IEEE VTC2011-Spring International Workshop on Broadband Femtocell Technologies, Budapest, Hungary, May 2011.

[C43] Ana García Armada, Roberto Corvaja, Matilde Sánchez-Fernández, Ana Santos Rodriguez, “MMSE Precoding for Downlink Coordinated Base Station Transmission”, IEEE Vehicular Technology Conference VTC2011-Spring, Budapest, Hungary, May 2011.

[C44] Miquel Payaró, Antonio Pascual-Iserte, Ana García Armada, Matilde Sánchez-Fernández, “Resource Allocation in Multi-Antenna MAC Networks. FBMC vs OFDM”, IEEE Vehicular Technology Conference VTC2011-Spring, Budapest, Hungary, May 2011.

4.3 Patents

[P1] Ana García Armada, Matilde Sánchez Fernández, Roberto Corvaja, “Joint transmission technique,” December 2010 (WO2011ES000344), Universidad Carlos III de Madrid.

[P2] Ana García Armada, M. Luz de Pablo González, Matilde Sánchez Fernández, Roberto Corvaja, Ignacio Berberana Fernández Murias. “Method to optimize the power assignment to user data streams transmitted from several coordinated base stations,” July 2011 (WO2013007616), Telefónica S.A.

[P3] Ana García Armada, Víctor P. Gil Jiménez, Nieves Sidney González Pizarro, Francisco Hernando Gallego, “ Method and device for inhibition of mobile telephony signals,” September 2012, (WO2014041225), Universidad Carlos III de Madrid.

[P4] Matilde Sánchez Fernández, Ana García Armada, Eva Rajo Iglesias, “Method and system for increasing the capacity of the uplink between a user terminal and a base station,” December 2014 (P201431806), Universidad Carlos III de Madrid.