

Liste des publications et communications Jocelyn Fiorina

Articles dans des revues internationales

- [J13] Luca Reggiani, Jocelyn Fiorina, Sinan Gezici, Simone Morosi, and Montse Najar, "Radio Context Awareness and Applications," *Journal of Sensors*, vol. 2013
- [J12] Ismail Tammam, A.; Fiorina, J.; Sari, H "A New Family of Low-Complexity STBCs for Four Transmit Antennas," *IEEE Transactions on Wireless Communications*, vol. 12, no. 3, March 2013.
- [J11] Ismail, A.; Fiorina, J.; Sari, H "A Novel Construction of Multi-group Decodable Space-Time Block Codes" *IEEE Transactions on Communications*, vol. 60, no. 5, May 2012.
- [J10] Luca De Nardis, Jocelyn Fiorina, Guido Capodanno, Dorin Panaitopol and Maria-Gabriella Di Benedetto, "Combining UWB with Time Reversal for improved communication and positioning," *Telecommunication Systems Journal (Springer)*, Special Issue on Recent Advances in UWB Systems: Theory and Applications, Print ISSN 1018-4864, Online ISSN 1572-9451, 14pp, September 2011
- [J9] Ismail, A.; Fiorina, J.; Sari, H."A New Low Complexity Decodable Rate-1 Full-Diversity 4×4 STBC with Nonvanishing Determinants" *IEEE Transactions on Wireless Communications*, Volume: 10 Issue:8 pp: 2456 - 2460, August 2011.
- [J8] Ismail, A.; Fiorina, J.; Sari, H." A Simple and Robust Equal-Power Transmit Diversity Scheme" *IEEE Communications Letters*, Volume: 15 Issue:1 pp: 37 – 39, January 2011
- [J7] Ismail, A.; Sari, H.; Fiorina, J., "A Pragmatic Approach Space-Time Code Design" , *IEEE Vehicular Technology Magazine*, volume: 5 , issue: 1 , Year: 2010 , Pages: 91 – 96
- [J6] J.Fiorina, D.Domenicali " The non validity of the gaussian approximation for multi-user interference in ultra wide band impulse radio: from an inconvenience to an advantage " *IEEE Transactions on Wireless Communications*, vol.8, November 2009, pages 5483-5489.
- [J5] R.Kassab, M. Lesturgie and J.Fiorina, "Performance Analysis of Interrupted Sparse HFSWR Waveform Coded with Successive Fast Fourier Transforms", 2009, 7 May, *Electronics Letters*, vol. 45, Issue 10, pp. 527-528
- [J4] Norman C. Beaulieu, H.Shao (University of Alberta, Canada), and J.Fiorina "P-Order Metric UWB Receiver Structures with Superior Performance" in *IEEE Transactions on Communications*, Volume 56, Issue 10, October 2008, pp 1666-1676.
- [J3] R.Kassab, M.Lesturgie, J.Fiorina, "Quasi-continuous Waveform Design for Dynamic Range Reduction," *Electronics Letters*, vol. 44, p. 646-647, 8 May 2008.
- [J2] J. Fiorina, D. Rousseau, F. Chapeau-Blondeau, "Interferer rejection improved by noise in ultra-wideband telecommunications" *Fluctuation and Noise Letters*, 2006, vol. 6, p. L317-L328.
- [J1] J. Fiorina and W. Hachem "On the Asymptotic Distribution of the Correlation Receiver Output for Time-Hopped UWB Signals," in *IEEE Transactions on Signal Processing*, Volume 54, Issue 7, July 2006 pp 2529 - 2545.

Chapitres de livres

- [B4] Editor and book chapter author: Maria-Gabriella Di Benedetto, Andrea Cattoni, Jocelyn Fiorina, Faouzi Bader, Luca De Nardis, "Cognitive Radio and Networking for Heterogeneous Wireless Networks: Recent Advances and Visions for the Future" Springer; 2014 edition (July 31, 2014).
- [B3] J.Fiorina (Editor) "Cognitive Wireless Communications: Highlight on Game Theory" Lecture book of the second international summer school, Publisher: Esculapio. Issue Date: July 2012.
- [B2] J.Fiorina, Luca De Nardis (Editors and book chapter authors) "Cognitive Wireless Communications" Lecture book of the first international summer school, Publisher: Esculapio. Issue Date: July 2011.
- [B1] J. Fiorina, « Study on the Probability of Error in UWB with Multiuser Interference », chapter of *The Ultra-Wideband, Short-Pulse Electromagnetic 7 Book (UWB SP 7)*, Kluwer Academic/Plenum Publishers, 2007.

Edition de livre

[B3] J.Fiorina (Editor) "Cognitive Wireless Communications: Highlight on Game Theory" Lecture book of the second international summer school, Publisher: Esculapio. Issue Date: July 2012.

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- [C31] Stefano Boldrini, Jocelyn Fiorina, Maria Gabriella Di Benedetto "Introducing strategic measure actions in multi-armed bandits" PIMRC 2013, London, England, September 2013.
- [C30] Ferrante G. C., Fiorina J., Di Benedetto M.-G., "Time Reversal Beamforming in MISO-UWB," IEEE ICUWB 2013, Sydney, Australia, September 2013.
- [C29] A.Ismail, J.Fiorina, H.Sari "A New Family of Low-Complexity Decodable STBCs for Four Transmit Antennas" IEEE International Conference on Communications, ICC 2012, Ottawa, Canada, June 2012.
- [C28] G.C.Ferrante, J.Fiorina, M.G.Di Benedetto "Complexity reduction by combining Time Reversal and IR-UWB", IEEE Wireless Communications and Networking Conference, WCNC 2012, April 2012.
- [C27] Ismail, A.; Fiorina, J.; Sari, H." A New Low-Complexity Decodable Rate-5/4 STBC for Four Transmit Antennas with Nonvanishing Determinants", IEEE Global Telecommunications Conference, Globecom 2011, Houston, 5.-9 Dec.
- [C26] J.Fiorina, G.Capodanno, M.G.Di Benedetto "Impact of Time Reversal on Multi-User Interference in IR-UWB", IEEE International Conference on Ultra-Wideband, ICUWB 2011, Bologna, Italy, September 2011.
- [C25] Ismail, A.; Fiorina, J.; Sari, H "A New Low-Complexity Rate-1 Full-Diversity 4x4 Space-Time Block Code" Proc. 26th Wireless World Research Forum (WWRF) meeting, Doha, Qatar, 11th to 13th of April, 2011.
- [C24] Ismail, A.; Fiorina, J.; Sari, H."A Novel Construction of 2-group Decodable 4x4 Space-Time Block Codes", IEEE Global Telecommunications Conference, Globecom 2010, Miami, 6.-10 Dec.
- [C23] Dorin Panaitopol, Peng-Yong Kong (Institute for Infocomm Research, Singapore), Chen Khong Tham (Institute for Infocomm Research, Singapore); Jocelyn Fiorina "An Efficient Cooperative Transmission Scheme Using Multiple Relays Incrementally", IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC 2010, September 2010, Istanbul.
- [C22] Amr Ismail, Serdar Sezginer, Jocelyn Fiorina, Hikmet Sari, « A Near-Optimum Equal-Power Transmit Diversity Scheme », IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC 2010, September 2010, Istanbul.
- [C21] Ismail, A.; Fiorina, J.; Sari, H.; Damen, M.O., "A Low-PAPR High-Rate Full-Diversity 4x4 Space-Time Code with Fast Maximum-Likelihood Decoding" IEEE Wireless Communications and Networking Conference, WCNC 2010, april 2010.
- [C20] Dorin Panaitopol, Jocelyn Fiorina, Tomaso Erseghe, "A Comparison of IR-UWB Receivers Adapted to MUI with Mixture Based Distributions" IEEE Wireless Communications and Networking Conference, WCNC 2010, april 2010.
- [C19] Dorin Panaitopol, Jocelyn Fiorina, Peng Yong Kong, Chen-Khong Tham, "The Effect of Impulsiveness in Inter-Cell Interference on Throughput of TH-IR-UWB Networks" IEEE Wireless Communications and Networking Conference, WCNC 2010, april 2010.
- [C18] A. Ismail, H. Sari, and J. Fiorina, "Pragmatic Space-Time Code Design," Proc. 23th Wireless World Research Forum (WWRF) meeting, October 2009, Beijing, China.
- [C17] R.Kassab, M.Lesturgie, J.Fiorina, "Alternate Projections Technique for Radar Waveform Design" International Radar Conference, Radar'09, Bordeaux, France, October 2009.
- [C16] D.Panaitopol, J.Fiorina, M.G.Di Benedetto "Trade-off Between the Number of Fingers in the Prefilter and in the Rake Receiver in Time Reversal IR UWB" IEEE International Conference on Ultra-Wideband, ICUWB'09, Vancouver, Canada, September 2009.
- [C15] Amr Ismail, Hikmet Sari, Jocelyn Fiorina and Mohamed Oussama Damen, "A Rate-3/2 Full-Diversity 4x4 Space-Time Code with Fast Maximum-Likelihood Decoding", IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC 2009, Tokyo, Japan, September 2009.
- [C14] D. Panaitopol, J. Fiorina, A. Diet, N. Ribiere-Tharaud, "A New Criterion to Jointly Design the Antenna and Optimize the Communication Capacity in IR-UWB ", IEEE Wireless Communications and Networking Conference, WCNC 2009, Budapest, Hungary, April 2009.
- [C13] D.Panaitopol, J.Fiorina, A.Diet, N.Ribièrè-Tharaud "Impact of the Design of an UWB Antenna on the Maximum Achievable Rate of the Communication in Presence of Multi User Interferences" Asia Pacific Microwave Conference, APMC 2008, Hong-Kong, 16-20 December 2008.

- [C12] R.Kassab, M.Lesturgie, J.Fiorina, "The Duty Cycle and Contrast Ratio Trade-off in the Design of Interrupted HFSWR Waveform", EURAD 2008, European Radar Conference, Amsterdam, 29-31 October 2008.
- [C11] J. Fiorina, D. Domenicali "Revisiting TH-IR-UWB performance limits dependency on essential system parameters using the Generalized Gaussian Approximation" IEEE International Conference on Ultra Wideband (ICUWB'07), Sept 24 - 26, 2007, Singapore.
- [C10] J. Fiorina, "A Simple IR-UWB Receiver Adapted to Multi-User Interferences" IEEE Global Telecommunications Conference, Globecom 2006, San Francisco, 27 Nov.-1 Dec. Apparu dans le TOP100 des articles IEEE les plus consultés toutes disciplines et toutes époques confondues (juin 2007).
- [C9] J. Fiorina, "Scrambling Code Breaking the Trade-off between Repetition Factor and Frame Length in Time-Hopping Impulse Radio Ultra Wide Band" 64th IEEE Vehicular Technology Conference VTC 2006 Fall, 25-28 September 2006, Montréal, Canada
- [C8] Simone Morosi, Dania Marabissi (University of Firenze, Italy), Jocelyn Fiorina, "Higher Order Impulsive Signals for UWB Communications", IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC 2006, Helsinki, 11-14 September.
- [C7] Luca Reggiani (Politecnico di Milano, Italy), Jocelyn Fiorina, "Analysis of Hybrid Acquisition Schemes for Ultra Wide Band Impulse Radio", IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC 2006, Helsinki, 11-14 September.
- [C6] J. Fiorina, "On the Benefit of a One-Bit Sampling Receiver and Hard Decoding in Impulse Radio Ultra Wide Band Communications with Multi User Interferences" IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC 2006, Helsinki, 11-14 September.
- [C5] Simone Morosi, Dania Marabissi, Francesco Gei (University of Firenze, Italy), Jocelyn Fiorina, "Bandwidth Efficient Signalling Schemes for IR-UWB Short-Range Communications", 2006 IEEE Ninth International Symposium on Spread Spectrum Techniques and Applications (ISSSTA), August 28-31, 2006, Manaus-Amazon-Brazil.
- [C4] Simone Morosi, Dania Marabissi, Francesco Gei (University of Firenze, Italy), Jocelyn Fiorina, "Higher Order Modulation IR-UWB Signals for Short-Range Communications", European Wireless Conference EW2006, April 2 - 5, 2006 - Athens, Greece.
- [C3] J. Fiorina and W. Hachem, "Trade-off between repetition factor and frame length in Time-Hopping Impulse Radio Ultra Wide Band", IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC 2005, September 2005, Berlin, Germany.
- [C2] J. Fiorina and W. Hachem, "Central Limit Results for the Multiple User Interference at the SUMF Output for UWB Signals", International Symposium on Information Theory and its Applications, ISITA'2004, October 2004, Parma, Italy.
- [C1] J.Fiorina, "Study on the probability of error in UWB with multiuser interference", European Electromagnetics Symposium, EUROEM 2004, July 2004, Magdeburg, Allemagne.

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- [F1] Domenicali D., Fiorina J., Di Benedetto M.-G. "Une approche cognitive des systèmes de communication UWB-IR » Colloque du GRETSI, Groupe d'Etudes du Traitement du Signal et des Images - Symposium on Signal and Image Processing (GRETSI'07), France (2007)

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- [I2] Jocelyn Fiorina, Luca De Nardis, Andrea Lambertucci, Maria-Gabriella Di Benedetto, "Sensing for Opportunistic Spectrum Access in Cognitive Radio: Exploitation of the Time to the Dead-Line", 3rd International Workshop on Cognitive Radio and Advanced Spectrum Management, November 2010, Rome.
- [I1] J.Fiorina, D.Panaitopol, D.Domenicali "On the necessity of sensing the non-Gaussianity of the interferences: application to UWB systems", International Workshop on Cognitive Radio & Advanced Spectrum Management, CogART 2009, Aalborg, Denmark, May 18-20, 2009.

Communications dans des séminaires internationaux et nationaux sans actes

- [S15] Stefano Boldrini, J.Fiorina, M.G. Di Benedetto "Cognitive engine for best wireless network selection" 2nd International Summer School on Cognitive Wireless Communications: Highlight on Game Theory, 10-13 July 2012, Paris
- [S14] J.Fiorina "Cognitive Radio in the Green Communication Paradigm. Vision of the IC0902 Cost Action" 2nd international Workshop on Wireless Green Networks, November 2nd, 2011, Casablanca Morocco
- [S13] J.Fiorina, L. De Nardis, A. Lambertucci, M.-G. Di Benedetto, "Opportunistic Spectrum Access in Cognitive Radio : a study of some sensing schemes", 2nd IC0902 Workshop - October 5-7, 2011, Barcelona, Spain
- [S12] J.Fiorina « Sur la nécessité d'évaluer l'aspect non Gaussien des interférences », présentation finale du projet URC Urbanisme des Radio Communications, du pôle de compétitivité Systematic, le 29 janvier 2010
- [S11] L. Reggiani and J. Fiorina, "Analysis of Hybrid Acquisition Schemes for UWB Impulse Radio" Newcom dissemination day, February 2007, Paris
- [S10] J.Fiorina, "IT++ Simulation platform for UWB systems" Newcom dissemination day, February 2007, Paris
- [S9] J.Fiorina, D.Domenicali "Optimum Decoding of Convolutional Codes for Impulse Radio Ultra Wide Band systems in presence of multi user interference", First French-Singapore Workshop on Signal Processing, 3 and 4th Dec 2007, Singapore.
- [S8] R.Kassab, M.Lesturgie, J.Fiorina "Dynamic Range Reduction by Quasi-Continuous Waveform Optimisation", First French-Singapore Workshop on Signal Processing, 3 and 4th Dec 2007, Singapore.
- [S7] D.Panaitopol, J.Fiorina "Spring Force Algorithm for Localization", First French-Singapore Workshop on Signal Processing, 3 and 4th Dec 2007, Singapore.
- [S6] J.Fiorina "Signaling Schemes for Impulse Radio UltraWideband Short-Range Communications" NEWCOM Workshop on Wireless Communications, in conjunction with IEEE ICC 2006, June 11, 2006, Istanbul, Turkey
- [S5] J.Fiorina "Presentation of Newcom Project B advances on UWB" Newcom Department 1 Workshop, Large Scale, Large Band, and Asymptotic Systems, March 14, 2006, in Marrakech, Morocco
- [S4] J.Fiorina « Caractérisation des interférences multi-utilisateurs pour les systèmes UWB », réunion du groupe de travail ULB du GdR Ondes, Octobre 2005, Grenoble.
- [S3] J.Fiorina « Points clés dans les systèmes de communication Ultra Wide Band », séminaire du LISA, Laboratoire d'Ingénierie des Systèmes Automatisés de l'Université d'Angers, 1 mars 2005.
- [S2] J.Fiorina "Overview of Ultra-Wide Band communication systems", First Newcom Annual Workshop au WWBO (Wireless Week in Bologna), Bologne, Italie, Janvier 2005.
- [S1] J.Fiorina "Résonance stochastique dans les systèmes UWB", 8ème édition des Entretiens Physique Industrie (EPI 8) consacrée au bruit, avec les GdR Ondes et ISIS, 17 juin 2004, Paris.

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- [P1] M.Barret, G.Fleury et J.Fiorina "Représentation et analyse statistiques des signaux" polycopié Supélec

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- "First implementation of UWB system simulators" Deliverable DRB2.1 NEWCOM Mai 2005
- "Report on Signalling/Modulation, Detection and Channel Coding" Deliverable DRB2.2 NEWCOM Juillet 2006
- "Report on Coexistence/Interference cancellation in UWB" Deliverable DRB2.3 NEWCOM Juillet 2006
- "Report on Eigen-mode/singular-mode characteristics and capacity of the propagation channel" Deliverable DRB2.4 NEWCOM Juillet 2006
- "Report on Equalization algorithms" Deliverable DRB2.5 NEWCOM Juillet 2006
- "Implementation of UWB physical layer algorithms" Deliverable DRB2.6 NEWCOM Juillet 2006
- "Synthesis on advances in UWB physical layer algorithms" Deliverable DRB2.7 NEWCOM Février 2007
- "Report on Wideband System Scalability" DR1.SWP1.4.2 NEWCOM Aout 2006
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- « Réseaux coopératifs : antennes virtuelles et relais » D4.3.1 Projet URC Avril 2008
- « Nouvelles modulations MIMO avancées pour IEEE802.11n et IEEE802.16e : techniques multi-utilisateurs et formation de voies, SAIC et retournement temporel » D4.4.1 Projet URC Avril 2008
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- « Réseaux coopératifs et réseaux ad hoc /maillés part II », D 4.3.2b Projet URC Novembre 2009
- « Analyse des spécificités liées aux ondes électromagnétiques » D4.5.2 Projet URC Décembre 2009

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“PHY Layer Techniques- III for future wireless access systems” Wimagec Deliverable D.4.3 Août 2009
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“PHY Layer Techniques- V for future wireless access systems” Wimagec Deliverable D.4.5 Août 2010

La liste des publications des membres de l'ILC de l'année en cours est extraite de DIAL, dépôt institutionnel de l'Académie Louvain. Pour des raisons techniques indépendantes de notre volonté, la liste n'est pas organisée par ordre alphabétique du premier auteur. Il est cependant possible d'extraire les publications au format Excel ou PDF, en utilisant les boutons ci-dessous. Institut Langage et Communication. My UCL. fr.