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Discipline de Recherche : Conception Circuits Intégrés

Section CNU : 63

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Liste de Publications 2010-2014 :

[RI-1] “*Design and implementation of UWB CMOS LC filters LNA for carrier less impulse radio receivers*”, Battista M., Gaubert J., Fanei A., Bachelet Y., Egels M., Pannier Ph., Bourdel S., Barthelemy H., Bas G., , Analog Integr Circ Sig Process, February 2010, DOI 10.1007/s10470-009-9401-z

[RI-2] "Chip On Board 3-10-GHz Impulse Radio Ultra Wideband Transmitter With Optimized Die to Antenna Wire Bond Transition," Fourquin, O.; Bourdel, S.; Gaubert, J.; Vauché, R.; Dehaese, N.; Chami, A.; Dauvignac, J.-Y.; Kossiavas, G.; Fortino, N.; Brachat, P.; *Components, Packaging and Manufacturing Technology, IEEE Transactions on* , vol.3, Issue 5, May 2013, pp.749 -758, doi:10.1109/TCPMT.2012.2231466

[RI-3] Morche, D.; Masson, G.; De Rivaz, S.; Dehmas, F.; Paquelet, S.; Bisiaux, A.; Fourquin, O.; Gaubert, J.; Bourdel, S.; "A Double Quadrature UWB Receiver for wide Range Localization Applications with sub-cm Precision" IEEE Journal of Solid State Circuit, Accepted for publication in April 2013.

[RI-4] "High rate UWB CMOS transceiver chipset for WBAN and biomedical applications", O. Ramos Sparrow, R. Vauche, N. Dehaese, S. Bourdel, J. Gaubert, I. Ben amor, E. Muhr, P. Losco, O. Fourquin, Analog Integr Circ Sig Process, DOI 10.1007/s10470-014-0369-y, July 2014.

Liste de brevets 2010-2014 :

Contactless integrated circuit comprising a highly efficient power supply circuit - European Patent EP1796023 ; Bergeret Emmanuel, Gaubert Jean, Pannier Philippe, Rizzo Pierre ; Application Number:EP20060024673 ; publication Date: 04/14/2010

Liste de Communications 2010-2014 :

[CI-1] “*A 1 nJ/b 3.2-to-4.7 GHz UWB 50 Mpulses/s double quadrature receiver for communication and localization*”, Masson, G.; Morche, D.; Jacquot, H.; Vincent, P.; Dehmas, F.; Paquelet, S.; Bisiaux, A.; Fourquin, O.; Gaubert, J.; Bourdel, S.; *Proceedings of the ESSCIRC 2010, 14-16 Sept. 2010, Seville, Spain.*

[CI-2] “*Low-power CMOS energy detector for noncoherent impulse-radio UWB receivers*”, Dehaese, N.; Battista, M.; Vauché, R.; Bourdel, S.; Gaubert, J.; Fourquin, O.; Tall, N.; 2010 IEEE International Conference on Ultra-Wideband (ICUWB), 20-23 Sept. 2010, Nanjing, China.

[CI-3] “*Design and Integration of UWB Antennas for High Data Rate Miniature Impulse Radio Transmitter*”, A. Chami, O. Fourquin, G.Clementi , J.-Y. Dauvignac, N. Fortino, S. Bourdel, J. Gaubert, P. Brachat, G. Kossiavas, EUCAP 2011 : the 5th European Conference on Antennas and Propagation, Rome, 10-15 April 2011

[CI-4] “*A Remotely UHF Powered UWB Transmitter for High Precision Localization of RFID Tag*”, R. Vauche, E. Bergeret, J. Gaubert, S. Bourdel, **O. Fourquin**, N. Dehaese, IEEE International Conference on Ultra Wideband (ICUWB), 14 – 16 september 2011, Bologna, Italy.

[CI-5] Tall N., Dehaese N., Bourdel S., Fourquin O., Vauché R., Gaubert J. “Low-Power Clock and Data Recovery Circuit for IR-UWB Receiver Power Management”, Proceedings of the 9th IEEE International Multi-Conference on Systems, Circuits and Devices (SSD), Chemnitz, Germany, pp. 1-6, March 2012.

[CI-6] "Varactor-tuned active miniature notch filter", Lababidi, R.; Bourdel, S.; Gaubert, J.; Louzir, A.; Robert, J.-L.; Le Naour, J.-Y.; Lo Hine Tong, D.; Lintignat, J.; Jarry, B.; Barelaud, B.; , New Circuits and Systems Conference (NEWCAS), 2012 IEEE 10th International , vol., no., pp.69-72, 17-20 June 2012

[CI-7] "High Output Dynamic UWB PulseGenerator for BPSK Modulations", E. Muhr, R. Vauche, S. Bourdel, J. Gaubert, O. Ramos Sparrow, N. Dehaese, H. Barthelemy, I. Benamor, IEEE International Conference on Ultra Wideband (ICUWB), 15 – 18 september 2013, Sydney, Australia.

[CI-8] " 'Analysis of the IEEE 802.15.4a UWB PHY layer for optimizing the power consumption of the transmitter' ", P. Losco, N. Dehaese, S. Bourdel, J. Gaubert, R. Vauche, H. Barthelemy, O. Ramos Sparrow, IEEE International Conference on Ultra Wideband (ICUWB), 15 – 18 september 2013, Sydney, Australia.

[CI-9] "RF Power Gating Techniques for Ultra Low Power Communication Systems", S. Bourdel, I. Ben Amor, J.F. Pons, N Dehaese, R. Vauché, J. Gaubert, invited paper in Workshop on Green Electronics III ,10th IEEE Conference on Ph.D. Research In Microelectronics and Electronics, 30 june - 3 july 2014, Grenoble, France.

[CI-10] "A 4GHz CMOS130nm IR-UWB dual front-end transceiver for IEEE802.15 standards", L. Ouvry, G. Masson, M. Pezzin, B. Piaget, B. Caillat, S.Bourdel, N.Dehaese, O.Fourquin, J.Gaubert, S.Meillère, R. Vauché, ICECS 2014 - invited paper in Special Session "Recent advances in IR-UWB circuits and systems for Ultra Low Power and Ranging Applications", 2014 IEEE International Conference on Electronics, Circuits, and Systems, December 7-10 2014, Marseille, France.

[CI-11] "*Transconductance CMOS Inverter Based AC Coupling Amplifier*", H. Barthélemy, S. Meillere, J. Gaubert, E. Kussener, New Circuits and Systems Conference (NEWCAS), 2014 IEEE 12th International , 22-25 June 2014, Trois Rivières, CANADA.

[CI-12] "*Fast Turn On/Off Low Noise Amplifier for Duty Cycled Ultra-Wideband Impulse Radio*", I. Benamor, N. Dehaese, J. Gaubert, S.Bourdel, IEEE International Conference on Ultra Wideband (ICUWB), 1 – 3 september 2014, Paris, France.

Liste d'ouvrages 2010-2014 :

- "*Design of CMOS UWB LNA*", Jean Gaubert and Sylvain Bourdel, Ultra Wideband, Book edited by: Boris Lembrikov, ISBN: 978-953-307-139-8, Publisher: Sciyo, Publishing date: September 2010
- "*Design of CMOS UWB Pulse Generators*", Sylvain Bourdel and Jean Gaubert, Ultra Wideband, Book edited by: Boris Lembrikov, ISBN: 978-953-307-139-8, Publisher: Sciyo, Publishing date: September 2010

Participations GDR, plates formes-technologiques, autres ... :

Collaborations (nationales et/ou internationales) avec d'autres laboratoires de Recherche :

CEA LETI (Grenoble), LEAT (UMR située à Nice), ORANGE Lab (Nice et Grenoble) dans le cadre de projets ANR.