

Laboratoire d'Electronique, Antennes et Télécommunications - L.E.A.T
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Chapitres d'Ouvrages

1 publication(s)

Numerical analysis and simulation tools

G. Vandebosch, R. Pascaud, A. Vasylechko, R. Gillard, R. Loison, J.-L. Dubard, R. Staraj, W. Simon, A. Wien

in Handbook on small antennas

EurAAP AISBL Technical Working Group on Compact Antennas, 03/2012, [hal-00923985](#)

Thèses et HDR

3 publication(s)

THESE Méthodologie de conception pour la virtualisation et le déploiement d'applications parallèles sur plateforme reconfigurable matériellement

C. Foucher

Université Nice Sophia Antipolis, 24/10/2012, [tel-00777511](#)

THESE Étude de la gestion de l'autonomie en énergie d'objets communicants sans fil

A. Castagnetti

Université de Nice Sophia Antipolis, 11/10/2012, [tel-01353340](#)

THESE MAILLAGE CARTESIEN NON-CONFORME POUR LA METHODE TLM. APPLICATION A LA CONCEPTION DE RECTENNAS COMPACTES

T. Q. V. Hoang

Université Nice Sophia Antipolis, 12/07/2012, [tel-00789574](#)

Articles Avec Comité de Lecture

23 publication(s)

Low-profile GNSS antenna with circular polarization

M. Silva Pimenta, F. Ferrero, R. Staraj, J.-M. Ribero

Microwave and Optical Technology Letters, 54(12), pp.2811-2814, 12/2012, [hal-00763916](#)

Ultra-Low-Power Audio Communication System for Cochlear Implant Application

Y. Vaiarello, W. Tatinian, Y. Leduc, N. Veau, G. Jacquemod

Journal of Low Power Electronics, 8(5), pp.706-716, 12/2012, [hal-01432735](#)

A Framework for Modeling and Simulating Energy Harvesting WSN nodes with Efficient Power Management Policies

A. Castagnetti, A. Pegatoquet, C. Belleudy, M. Auguin

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Using unified power format standard concepts for power-aware design and verification of systems-on-chip at transaction level

O. Mbarek, A. Pegatoquet, M. Auguin

IET Circuits, Devices & Systems, 6(5), pp.287-296, 09/2012, [hal-00812205](#)

Efficiency Measurement of Probe-Fed Antennas Operating at Millimeter-Wave Frequencies

D. Titz, F. Ferrero, P. Brachat, G. Jacquemod, C. Luxey

IEEE Antennas and Wireless Propagation Letters, 11 pp.1194-1197, 09/2012, [hal-00763908](#)

Light and Low-Profile GSM Omnidirectional Antenna

L. Lizzi, F. Ferrero, J.-M. Ribero, R. Staraj

IEEE Antennas and Wireless Propagation Letters, 11 pp.1146-1149, 09/2012, [hal-00763906](#)

Development of a Millimeter-Wave Measurement Setup and Dedicated Techniques to Characterize the Matching and Radiation Performance of Probe-Fed Antennas

D. Titz, F. Ferrero, C. Luxey

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Frequency and Time Domain Analysis of Different Approaches to the Backing of an Uwb Slot Antenna

G. Clementi, N. Fortino, J.-Y. Dauvignac, G. Kossiavas

IEEE Transactions on Antennas and Propagation, 60(7), pp.3495-3498, 07/2012, [hal-00933079](#)

Accurate energy characterization of OS services in embedded systems

B. Ouni, C. Belleudy, E. Senn

EURASIP Journal on Embedded Systems, 2012(July),07/2012, [hal-00770584](#)

Low-profile TETRA wire-patch antenna for automotive applications

L. Lizzi, F. Ferrero, J.-M. Ribero, R. Staraj

Microwave and Optical Technology Letters, 54(7), pp.1711-1714, 07/2012, [hal-00763891](#)

76.5 GHz millimeter-wave radar for foreign objects debris detection on airport runways

K. Mazouni, A. Zeitler, J. Lanteri, C. Pichot, J.-Y. Dauvignac, C. Migliaccio, N. Yonemoto, A. Kohmura, S. Futatsumori

International journal of microwave and wireless technologies, 4(special issue 3), pp.317-326, 06/2012, [hal-00764043](#)

Industrial HTCC Antenna-Module SiP for 60-GHz Applications

D. Titz, R. Pilard, F. Gianesello, F. Ferrero, C. Luxey, P. Brachat, G. Jacquemod, D. Gloria

IEEE Antennas and Wireless Propagation Letters, 11 pp.576-579, 05/2012, [hal-00763853](#)

Improving wake-up receiver's sensitivity by using a novel architecture

L. Trinh, T. Hoang, F. Perret, F. Ferrero

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Calibration methodology for a 3D radiation pattern set-up of probe-fed millimeter-wave antennas

D. Titz, M. Kyrö, F. Ferrero, S. Ranvier, C. Luxey, P. Brachat, G. Jacquemod, P. Vainikainen

Microwave and Optical Technology Letters, 54(5), pp.1183-1189, 05/2012, [hal-00763520](#)

Efficient Miniaturization Technique for Wire Patch Antenna

R. Addaci, A. Diallo, P. Le Thuc, R. Staraj

Microwave and Optical Technology Letters, 54(5), pp.1325-1327, 05/2012, [hal-00662013](#)

Design and Characterization of CMOS On-Chip Antennas for 60 GHz Communications

D. Titz, F. Ben Abdeljelil, S. Jan, F. Ferrero, C. Luxey, P. Brachat, G. Jacquemod

RADIOENGINEERING, 21(1), pp.324-332, 04/2012, [hal-00763516](#)

A nested multi-scaling inexact-Newton iterative approach for microwave imaging

G. Oliveri, L. Lizzi, M. Pastorino, A. Massa

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Optimal location of multi-antenna systems - Influence of noise-corrupted data

M. Zoppi, C. Dedeban, C. Pichot, S. Selleri, S. Pelosi

Applied Computational Electromagnetics Society Journal, 27(2), pp.198-205, 02/2012, [hal-00763514](#)

Multiband fractal antenna for wireless communication systems for emergency management

L. Lizzi, R. Azaro, G. Oliveri, A. Massa

Journal of Electromagnetic Waves and Applications, 26(1), pp.1-11, 2012, [hal-01168952](#)

A time-domain approach to the synthesis of UWB antenna systems

L. Lizzi, G. Oliveri, A. Massa

Progress In Electromagnetics Research, 122 pp.557-575, 2012, [hal-01168950](#)

Millimeter-wave miniaturized hybrid couplers integrated on advanced BiCMOS technology

D. Titz, F. Ferrero, R. Debroucke, R. Pilard, C. Luxey, F. Giancesello, S. Jan, D. Gloria, G. Jacquemod

Microwave and Optical Technology Letters, 54(10), pp.2221-2223, 2012, [hal-00788171](#)

Dual-Band WLAN Diversity Antenna System With High Port-to-Port Isolation

R. Addaci, A. Diallo, C. Luxey, P. Le Thuc, R. Staraj

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77 GHz offset reflectarray for FOD detection on airport runways

K. Mazouni, C. Pichot, J. Lanteri, J.-Y. Dauvignac, C. Migliaccio, S. Futatsumori, A. Kohmura, N. Yonemoto

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Communications Internationales

58 publication(s)

Fast and Accurate Analysis Method of a Circular Patch Antennas using Neurospectral Method

N. Hamdiken, R. Addaci, T. Fortaki

24th International Conference on Microelectronics (ICM 2012), 17/12/2012, Algiers, DZ, [hal-00764565](#)

Neutralization Technique Model Using Artificial Neural Networks

R. Addaci, N. Hamdiken, T. Fortaki, R. Staraj

24th International Conference on Microelectronics (ICM 2012), 17/12/2012, Algiers, DZ, [hal-00764563](#)

Module Relocation in Heterogeneous Reconfigurable Systems-on-Chip using the Xilinx Isolation Design Flow

L. Gantel, M. E. A. Benkhelifa, F. Lemonnier, F. Verdier

International conference on ReConFigurable Computing and FPGAs (ReConFig), 05/12/2012, Cancun, MX, pp.1-6, [hal-00794049](#)

Power Consumption Model for Partial Dynamic Reconfiguration

R. Bonamy, D. Chillet, S. Bilavarn, O. Sentieys

International Conference on ReConFigurable Computing and FPGA (RECONFIG'2012), 05/12/2012, Cancun, MX, [hal-00741611](#)

Modeling and optimization of a low noise RF transmitter for cochlear implant application

U. Cerasani, Y. Vaiarello, W. Tatinian, G. Jacquemod

Design of Circuits and Integrated Systems (DCIS), 28/11/2012, Avignon, FR, [hal-01432750](#)

Modeling and optimization of a low noise RF transmitter for cochlear implant application

U. Cerasani, Y. Vaiarello, W. Tatinian, G. Jacquemod

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Power Manager with PID controller in Energy Harvesting Wireless Sensor Networks

T.-N. Le, O. Sentieys, O. Berder, A. Pegatoquet, C. Belleudy

IEEE International Conference on Internet of Things, Workshop on energy and Wireless Sensors (e-WiSe), 22/11/2012, Besançon, FR, [hal-00764554](#)

Wideband LDS antenna using two radiating elements

F. SONNERAT, R. Pilard, F. GIANESELO, D. Gloria, F. LE PENNEC, C. Person, A. CIHANGIR, F. FERRERO, C. Luxey, P. BRACHAT

Loughborough Antenna and Propagation Conference, 12/11/2012, Loughborough, GB, [hal-00797574](#)

60 GHz Patch Antenna Using IPD Technology

D. Titz, A. Bisognin, F. Ferrero, C. Luxey, G. Jacquemod, C. Laporte, H. Ezzeddine, M. Valente, P. Brachat

Loughborough Antennas & Propagation Conference, 12/11/2012, Loughborough, FR, [hal-00764538](#)

Shape Optimization of Planar Antennas Using Level Set Method

M. Zoppi, C. Dedeban, C. Pichot, S. Pelosi, S. Selli

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Millimeter-wave imaging : Quantitative reconstructions from experimental data in the W-band

A. Moynot, A. Zeitler, I. Aliferis, C. Migliaccio, J.-Y. Dauvignac, C. Pichot

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Wireless Interrogation of an Implanted Temperature Sensor in a Mouse

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Ka-band Beam Switchable Fresnel Reflector

A. Kohmura, J. Lanteri, F. Ferrero, C. Migliaccio, S. Futatsumori, N. Yonemoto

International Symposium on Antennas and Propagation (ISAP 2012), 29/10/2012, Nagoya, JP, pp.Paper P0361, [hal-00764532](#)

MIMO antenna design with genetic algorithm for TTW radar imaging

B. Boudamouz, P. Millot, C. Pichot

42nd European Microwave Conference (EuMW2012), 28/10/2012, Amsterdam, NL, ISBN 978-1-4673-2471-7, pp.150-153, [hal-00780534](#)

GRECO : GREEn Communicating Objects

O. Berder, O. Sentieys, T.-N. Le, R. Fontaine, A. Pegatoquet, C. Belleudy, M. Auguin, G. Jacquemod, W. Tatinian, F. Broekaert, A. Didioui, C. Bernier, K. Ben Chehida, S. Bourdel, H. Barthelemy, P. Ciais, C. Barratt

IEEE Conference on Design and Architectures for Signal and Image Processing (DASIP), 23/10/2012, Karlsruhe, DE, [hal-00764530](#)

Black-Box And White-Box Early Power Intent Simulation and Verification: Two Novel Approaches

O. Mbarek, A. Pegatoquet, M. Auguin

IEEE Conference on Design and Architectures for Signal and Image Processing (DASIP), 23/10/2012, Karlsruhe, DE, [hal-00764525](#)

Open-People: an Open Platform for Estimation and Optimizations of energy consumption

E. Senn, D. Chillet, O. Zendra, C. Belleudy, R. Ben Atitallah, A. Fritsch, C. Samoyeau

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Method of Miniaturization and Integration applied on IR-UWB Antenna

A. Chami, P. Brachat, G. Kossiavas, N. Fortino, O. Fourquin, S. Bourdel, J. Gaubert

Innovative Printed Smart Objects (IPSO), 16/10/2012, Gardanne, FR, [hal-00933085](#)

Inter-process communication energy estimation through AADL modeling

B. Ouni, H. Ben Rekhissa, C. Belleudy

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Energy Characterization and classification of embedded operating system services

E. Senn, C. Belleudy, B. Ouni

15th Euromicro Conference on Digital System Design, 05/09/2012, Izmir, TR, pp.xx, [hal-00760328](#)

Open-People: Open Power and Energy Optimization Platform and Estimator

D. Chillet, E. Senn, O. Zendra, C. Belleudy, S. Bilavarn, R. Ben Atitallah, C. Samoyeau, A. Fritsch

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High-level model of sensor architecture for hardware and software design space exploration

N. Serna, F. Verdier

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Fast Integration of Hardware Accelerators for Dynamically Reconfigurable Architecture

C. Foucher, F. Muller, A. Giulieri

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Planar Inverted F Antenna Circularly Polarized for RFID applications

S. Pflaum, G. Kossiavas, R. Staraj

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Optimal location of multiple objects or multi-antenna systems

M. Zoppi, C. Pichot, C. Dedeban, S. Selleri, S. Pelosi

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I. Dioum, A. Diallo, S. Farssi, C. Luxey

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HDI Organic Technology Integrating Built-In Antennas Dedicated to 60 GHz SiP Solution

R. Pilard, D. Titz, F. Gianesello, P. Calascibetta, J.-M. Riviere, J. Lopez, R. Coffy, E. Saugier, A. Poulain, F. Ferrero, C. Luxey, P. Brachet, G. Jacquemod, D. Gloria

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Design of a Miniaturized Butler Matrix in IPD Process for 60 GHz Switched-Beam Antenna Arrays

D. Titz, F. Ferrero, C. Luxey, G. Jacquemod, C. Laporte, H. Ezzeddine

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High-Efficiency Elliptical-Slot Silicon RFIC Antenna with Quartz Superstrate

J. Edwards, G. Rebeiz, D. Titz, F. Ferrero, C. Luxey

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Compact Low-Profile Omnidirectional Surface Wave Antenna for UMTS Applications

L. Lizzi, F. Ferrero, J.-M. Ribero, R. Staraj

IEEE International Symposium on Antennas and Propagation (AP-S 2012) and USNC-URSI National Radio Science Meeting, 08/07/2012, Chicago, illinois, US, [hal-00764453](#)

Chassis engineering to enlarge the bandwidth for GSM-450 application

F. Ferrero, J.-M. Ribero, R. Staraj

IEEE International Symposium on Antennas and Propagation (AP-S 2012) and USNC-URSI National Radio Science Meeting, 08/07/2012, Chicago, Illinois, US, [hal-00764451](#)

A Fast and Accurate Method to Measure the Radiation Characteristics of Probe-fed Circularly-Polarized Antennas in Mm-Wave Bands

D. Titz, F. Ferrero, C. Luxey, G. Jacquemod

IEEE International Symposium on Antennas and Propagation (AP-S 2012) and USNC-URSI National Radio Science Meeting, 08/07/2012, Chicago, US, pp.1-2, [hal-00764449](#)

Evaluation of Diversity and MIMO Performance of a New High Port to Port Isolation Dual-Band System

R. Addaci, A. Diallo, P. Le Thuc, R. Staraj, K. Haneda, P. Vainikainen

IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting, 08/07/2012, Chicago, Illinois, US, [hal-00688218](#)

An Efficient Mobility Management Approach For IEEE 802.15.4/ZigBee Nodes

C. Chaabane, A. Pegatoquet, M. Auguin, M. Ben Jemaa

14th IEEE International Conference on High Performance Computing and Communications (HPCC-2012) - Third International Workshop on Wireless Networks and Multimedia (WNM-2012), 25/06/2012, Liverpool, GB, pp.897-902, [hal-00764437](#)

Design of Multi - Antenna Diversity System dedicated to Interrogation in Noisy Propagation Environments

R. Addaci, F. Ferrero, A. Diallo, P. Le Thuc, C. Luxey, R. Staraj

15th International Symposium on ANtenna Technology and applied ElectroMagnetics, 25/06/2012, Toulouse, FR, [hal-00688216](#)

A High Level Mixed Software/Hardware Modeling Framework for Rapid Performance Estimation

J. Kriegel, A. Pegatoquet, M. Auguin, F. Broekaert

10th IEEE International NEWCAS Conference, 17/06/2012, Montreal, CA, pp.233-236, [hal-00764436](#)

New Wideband Integrated Miniature Branchline Coupler for Beamforming Applications

D. Titz, F. Ferrero, R. Pilard, C. Laporte, S. Jan, H. Ezzeddine, F. Gianesello, D. Gloria, C. Luxey, G. Jacquemod

IEEE International Microwave Symposium (IMS 2012), 17/06/2012, Montreal, CA, pp.1-3, [hal-00764433](#)

Process Variation Compensation for Wireless Microphone Applications

Y. Vaiarello, Y. Leduc, W. Tatinian, N. Veau, G. Jacquemod

European Workshop on CMOS Variability - VARI, 11/06/2012, Sophia Antipolis, FR, [hal-01435851](#)

Waveperf : A Benchmark Generator for Performance Evaluation

J. Kriegel, A. Pegatoquet, M. Auguin, F. Broekaert

2nd ACM SIGBED Embed With Linux (EWiLi) Workshop, 07/06/2012, Lorient, FR, pp.7-11, [hal-00764409](#)

Energy leakage in low power embedded operating systems using DVFS policy

B. Ouni, C. Belleudy, E. Senn

11th IEEE Faible Tension Faible Consommation (FTFC '12), 06/06/2012, Paris, FR, pp.4 p., [hal-00770595](#)

Energy Analysis of a DVFS Power Strategy on ARM platforms

J. Khan, S. Bilavarn, C. Belleudy

IEEE Faible Tension Faible Consommation (FTFC 2012), 06/06/2012, Paris, FR, pp.1-4, [hal-00764408](#)

Realistic energy modeling of scheduling, interprocess communication and context switch routines

B. Ouni, C. Belleudy, E. Senn

7th International conference on Design and Technology of Integrated systems in Nanoscale Era (DTIS '12), 16/05/2012, Gammarth, TN, pp.6 p., [hal-00770598](#)

Impact of Operating Points on DVFS Power Management

J. Khan, S. Bilavarn, C. Belleudy

7th International conference on Design & Technology of Integrated Systems in nanoscale era (DTIS'12), 16/05/2012, Gammarth, TN, pp.1-6, [hal-00764407](#)

Circularly polarized patch antenna with an auto-adaptive control loop

F. Ferrero, F. Perret, J.-M. Ribero, R. Staraj

Advanced Electromagnetics Symposium (AES 2012), 16/04/2012, Paris, FR, [hal-00764130](#)

Low power wireless microphone transceiver based on analog to time conversion for cochlear implant application

G. Jacquemod, D. Jausseran, O. Diop, Y. Vaiarello, A. El-Amraoui, F. Ferrero, W. Tatinian, Y. Leduc, N. Veau, H. Ezzeddine, C. Laporte

International Conference on Small Science (ICSS), 16/04/2012, orlando, US, pp.74-82, [hal-01432748](#)

An Efficient State of Charge Prediction Model for Solar Harvesting WSN Platforms

A. Castagnetti, A. Pegatoquet, C. Belleudy, M. Auguin

19th IEEE International Conference on Systems, Signals and Image Processing (IWSSIP), 11/04/2012, Vienne, AT, pp.122-125, [hal-00666904](#)

W-band imaging with complex scattered field measurements of a dielectric cylinder

A. Zeitler, C. Migliaccio, A. Moynot, I. Aliferis, L. Brochier, J.-Y. Dauvignac, C. Pichot

6th European Conference on Antennas and Propagation (EuCAP), 26/03/2012, Prague, CZ, pp.3686-3689, [hal-00773429](#)

Ka-band Dual Frequency Switchable Reflect array

A. Kohmura, J. Lanteri, F. Ferrero, C. Migliaccio, P. Ratajczak, S. Futatsumori, N. Yonemoto
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[hal-00764406](#)

Antenna-in-Package Using PCB and IPD Technologies for 60 GHz Applications

D. Titz, F. Ferrero, C. Luxey, G. Jacquemod, C. Laporte, H. Ezzeddine
6th European Conference on Antennas and Propagation (EuCAP), 26/03/2012, Prague, CZ, pp.2591-2594,
[hal-00764367](#)

A Novel Multi-Band Antenna Design with Matching Network for Use in Mobile Terminals

A. Cihangir, F. Ferrero, C. Luxey, G. Jacquemod
6th European Conference on Antennas and Propagation (EuCAP), 26/03/2012, Prague, CZ, pp.1667-1671,
[hal-00764366](#)

Near-field contact-less return loss measurement of a 434MHz dipole antenna-SAW sensor system

M. Monedero, P. Le Thuc, E. Seguenot, R. Staraj
6th European Conference on Antennas and Propagation (EuCAP), 26/03/2012, Prague, CZ, pp.2166-2169,
[hal-00764365](#)

Textile artificial magnetic conductor for GPS applications

M. Silva Pimenta, F. Ferrero, P. Brachat, P. Ratajczak, R. Staraj, J.-M. Ribero
6th European Conference on Antennas and Propagation (EuCAP), 26/03/2012, Prague, CZ, pp.2884-2886,
[hal-00764364](#)

Circular polarization wire patch antenna for RFID applications

S. Pflaum, R. Staraj, G. Kossiavas
6th European Conference on Antennas and Propagation (EuCAP), 26/03/2012, Prague, CZ, pp.2997-3000,
[hal-00764363](#)

Using Model Driven Engineering to Reliably Accelerate Early Low Power Intent Exploration for a System-on-Chip Design

O. Mbarek, A. Khecharem, A. Pegatoquet, M. Auguin
27th ACM Symposium On Applied Computing (SAC), 26/03/2012, Trento, IT, [hal-00666898](#)

Planar Antennas on Integrated Passive Device Technology for Biomedical Applications

O. Diop, F. Ferrero, A. Diallo, G. Jacquemod, C. Laporte, H. Ezzeddine, C. Luxey
International Workshop on Antenna Technology (IWAT 2012), 05/03/2012, Tucson, AZ, US, pp.216-220,
[hal-00764362](#)

Radiation Pattern Characterization of Antennas at Millimeter Wave Frequencies

D. Titz, F. Ferrero, C. Luxey, P. Brachat, G. Jacquemod
International Workshop on Antenna Technology (IWAT 2012), 05/03/2012, Tucson, AZ, US, pp.311-314,
[hal-00764361](#)

An Open-Loop Energy Neutral Power Manager for Solar Harvesting WSN

A. Castagnetti, A. Pegatoquet, C. Belleudy, M. Auguin
2nd International Conference on Pervasive and Embedded Computing and Communication Systems (PECCS), 24/02/2012, Rome, IT, [hal-00666892](#)

Energy Optimization For Mobile Nodes in a Cluster Tree IEEE 802.15.4/ZigBee Network

C. Chaabane, A. Pegatoquet, M. Auguin, M. Ben Jemaa
IEEE Computing, Communications and Applications Conference (COMCOMAP), 11/01/2012, Hong Kong, CN, [hal-00666890](#)

Communications Nationales

1 publication(s)

MAXWELL: Nouveau système d'acquisition, ultra large bande (ULB), bistatique, multipolarisation, à large offset, pour l'imagerie microonde et l'inversion de la permittivité

C. Pichot

Grand Colloque ANR STIC 2012, 04/01/2012, Lyon, FR, [hal-00780525](https://hal.archives-ouvertes.fr/hal-00780525)

Communications (Sans Comité de Lecture)

18 publication(s)

GRECO : GREEn Communicating Objects

O. Berder, O. Sentieys, T.-N. Le, A. Pegatoquet, C. Belleudy, F. Broekaert, C. Bernier, S. Bourdel, K. Ben Chehida, C. Barratt

Forum SAME (Sophia Antipolis Microelectronics), 03/10/2012, Sophia Antipolis, FR, [hal-00764520](https://hal.archives-ouvertes.fr/hal-00764520)

Wearable antennas for firefighters

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