



UMR CNRS N° 7248

**Laboratoire d'Electronique, Antennes et Télécommunications - L.E.A.T**  
**UMR CNRS n°7248**

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# 2014

## Thèses et HDR

6 publication(s)

**THESE Génération automatique de jeux de tests avec analyse symbolique des données pour les systèmes embarqués**

M. Abdelmoula

Université Nice Sophia Antipolis, 18/12/2014, [tel-01168313](tel:01168313)

**THESE Modélisation et conception d'un récepteur non cohérent ultra large bande pour les communications ULB radio impulsionnelle dans la bande 3-5 GHz**

O. Ramos Sparrow

Université Nice Sophia Antipolis, 17/11/2014, [tel-01127199](tel:01127199)

**THESE Modélisation et optimisation d'un émetteur-récepteur faible bruit pour implants cochléaires**

U. Cerasani

Université Nice Sophia Antipolis, 12/09/2014, [tel-01423849](tel:01423849)

**THESE Système embarqué autonome en énergie pour objets mobiles communicants**

C. Chaabane

Univeristé Nice Sophia Antipolis;École Nationale d'Ingénieurs de Sfax, 30/06/2014, [tel-01081583](tel:01081583)

**THESE Système embarqué autonome en énergie pour objets mobiles communicants**

C. Chaabane

Université Nice Sophia Antipolis;Université de Sfax (Tunisie), 30/06/2014, [tel-01071056](tel:01071056)

**THESE Conception d'antennes et de circuits d'adaptation associés pour des objets communicants 4G**

A. CIHANGIR

Université Nice Sophia Antipolis, 06/03/2014, [tel-00976632](tel:00976632)

## Articles Avec Comité de Lecture

20 publication(s)

**Simple bandwidth-enhancement technique for miniaturised low-profile UWB antenna design**

R. Addaci, N. Hamdiken, T. Fortaki, F. Ferrero, D. Seetharamdoo, R. Staraj

Electronics Letters, 50(22), pp.1564-1566, 10/2014, [hal-01090682](hal:01090682)

**EMI Measurements, Modeling, and Reduction of 32-Bit High-Performance Microcontrollers**

J.-P. Leca, N. Froidevaux, P. Dupré, G. Jacquemod, H. Braquet

IEEE Transactions on Electromagnetic Compatibility, 56(5), pp.1035-1044, 10/2014, [hal-01435833](hal:01435833)

### **Simple antenna structure enabling the simultaneous excitation of two different polarisation and radiation modes**

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

IET Microwaves Antennas and Propagation, 8(12), pp.921-930, 09/2014, [hal-01089562](#)

### **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 Integrated Circuits and Signal Processing, 81(1), pp.215-227, 07/2014, [hal-01435829](#)

### **Design of Multi-Antenna System for UMTS Clamshell Mobile Phones with Ground Plane Effects Considerations**

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

RADIOENGINEERING, 23(2), pp.724-732, 06/2014, [hal-00979540](#)

### **New Wideband Miniature Branchline Coupler on IPD Technology for Beamforming Applications**

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

IEEE Transactions on Components Packaging and Manufacturing Technology, 4(5), pp.911-921, 05/2014, [hal-01089561](#)

### **A Joint Duty-Cycle and Transmission Power Management for Energy Harvesting WSN**

A. Castagnetti, A. Pegatoquet, T.-N. Le, M. Auguin

IEEE Transactions on Industrial Informatics, 10(2), pp.928-936, 05/2014, [hal-00987376](#)

### **PCB Integration of a Vivaldi Antenna on IPD Technology for 60-GHz Communications**

A. Bisognin, D. Titz, F. Ferrero, G. Jacquemod, R. Pilard, P. BRACHAT, F. Gianesello, D. Gloria, C. Laporte, E. Hilal, C. Luxey

IEEE Antennas and Wireless Propagation Letters, 13 pp.678-681, 04/2014, [hal-01089560](#)

### **A Novel Compact Dual-Band LTE Antenna-System for MIMO Operation**

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

IEEE Transactions on Antennas and Propagation, 62(4), pp.2291-2296, 04/2014, [hal-00952968](#)

### **Millimeter-Wave Miniaturized Couplers Integrated on BiCMOS Technology**

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

Microwave and Optical Technology Letters, 56(3), pp.587-590, 03/2014, [hal-01083778](#)

### **Miniature antennas embedded in electronic devices with micro-SD card form factor for telemedicine applications**

H. Hamouda, P. Le Thuc, R. Staraj, G. Kossiavas

Electronics Letters, 50(6), pp.429-431, 03/2014, [hal-00979542](#)

### **Dual-Band WLAN Multiantenna System and Diversity/MIMO Performance Evaluation**

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

IEEE Transactions on Antennas and Propagation, 62(3), pp.1409-1415, 03/2014, [hal-00979538](#)

### **A Joint Mobility Management Approach and Data Rate Adaptation Algorithm for IEEE802.15.4/ZigBee Nodes**

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

International journal on Wireless Sensor Network (WSN), 02/2014, [hal-00924486](#)

### **Power Consumption Models for the Use of Dynamic and Partial Reconfiguration**

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

Microprocessors and Microsystems: Embedded Hardware Design (MICPRO), 29/01/2014, [hal-00941532](#)

### **Neutralized Coupling Elements for MIMO Operation in 4G Mobile Terminals**

A. Cihangir, F. Ferrero, G. Jacquemod, P. Brachat, C. Luxey

IEEE Antennas and Wireless Propagation Letters, 13 pp.141-144, 01/2014, [hal-01089559](#)

### **Improved Measurement Accuracy of Probe-Fed mm-Wave Antennas Using the Three Method**

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

IEEE Antennas and Wireless Propagation Letters, 13 pp.103-105, 01/2014, [hal-01089558](#)

### **Babinet's principle applied to ultra-wideband antennas for high isolation**

A. Chami, P. Brachat, N. Fortino, G. Kossiavas

Electronics Letters, 50(2), pp.60-62, 01/2014, [hal-00933090](#)

### **Integration of Resonant and Non-Resonant Antennas for Coverage of 4G LTE Bands in Handheld Terminals**

A. Cihangir, F. Ferrero, G. Jacquemod, P. Brachat, C. Luxey

Forum for Electromagnetic Research Methods and Application Technologies (FERMAT), 3 pp.12 p., 2014, [hal-01090679](#)

### **Inkjet coplanar square monopole on flexible substrate for 60-GHz applications**

A. Bisognin, J. THIELLEUX, W. Wei, D. Titz, F. FERRERO, P. BRACHAT, G. Jacquemod, H. Happy, C. Luxey

IEEE Antennas and Wireless Propagation Letters, 13 pp.435-438, 2014, [hal-00978298](#)

### **Modeling of the Organ of Corti Stimulated by Cochlear Implant Electrodes and Electrodes Potential Definition Based on their Part inside the Cochlear**

U. Cerasani, W. Tatinian

International Journal On Advances in Life Sciences, 6(1-2), pp.52-61, 2014, [hal-01435824](#)

## **Communications Internationales**

29 publication(s)

### **Estimation of the Temperature Sensitivity of a 8-Elements Switched Antenna for Land-Mine Radar**

C. Migliaccio, G. Clementi, J.-Y. Dauvignac, J. Willebois, C. Chekroun

*International Conference on Antenna Measurements & Applications: Focus on Antenna Systems (CAMA 2014)*, 16/11/2014, Antibes-Juan les Pins, FR, pp.Session APP5, [hal-01089595](#)

### **Electronical Beam Scanning Using Integrated CMOS Continuous 0°-360° Phase Shifter**

W. Tatinian, J. Lanteri

*International Conference on Antenna Measurements & Applications: Focus on Antenna Systems (CAMA 2014)*, 16/11/2014, Antibes-Juan les Pins, FR, pp.Session APP4, [hal-01089591](#)

### **RSSI Measurements to Achieve Mouse Localization in a Cage**

P. Perrissol, L. Lizzi, A. Diallo, P. Le Thuc, R. Staraj, G. Carle

*International Conference on Antenna Measurements & Applications: Focus on Antenna Systems (CAMA 2014)*, 16/11/2014, Antibes-Juan les Pins, FR, pp.Session APP4, [hal-01089589](#)

### **UWB Antenna 3D Characterization Using Matrix Pencil Method**

A. Roussafi, N. Fortino, J.-Y. Dauvignac

*International Conference on Antenna Measurements & Applications: Focus on Antenna Systems (CAMA 2014)*, 16/11/2014, Antibes-Juan les Pins, FR, pp.Special Session SP5, [hal-01089586](#)

### **Rectenna Measurement in a Realistic Environment**

T. Hoang, L. Trinh, F. Ferrero, E. Seguenot, T. P. Vuong, J.-L. Dubard

*International Conference on Antenna Measurements & Applications: Focus on Antenna Systems (CAMA 2014)*, 16/11/2014, Antibes-Juan les Pins, FR, pp.Special Session SP3, [hal-01089584](#)

### **Experimental Validation of a Miniature Implantable RFID Tag Antenna for Small Animals Monitoring**

L. Lizzi, P. Perrissol, F. Ferrero, P. Le Thuc, R. Staraj

*International Conference on Antenna Measurements & Applications: Focus on Antenna Systems (CAMA 2014)*, 16/11/2014, Antibes-Juan les Pins, FR, pp.Special Session SP3, [hal-01089578](#)

### **Design of a Dual-Band MIMO Wifi Gateway**

F. Ferrero, C. Buey, J.-M. Fargeas, P. Ratajczak, K. Bashir, L. Trinh

*International Conference on Antenna Measurements & Applications: Focus on Antenna Systems (CAMA 2014)*, 16/11/2014, Antibes-Juan les Pins, FR, pp.Special Session SP3, [hal-01089573](#)

### **A Power Manager with Balanced Quality of Service for Energy-Harvesting Wireless Sensor Nodes**

T. N. Le, A. Pegatoquet, O. Berder, O. Sentieys

*International Workshop on Energy Neutral Sensing Systems (ENSSys) - ENSSys '14*, 06/11/2014, Memphis, US, pp.19-24, [hal-01069099](#)

### **Wideband Antenna for Land-mine Detection Radar**

G. Clementi, C. Migliaccio, J.-Y. Dauvignac, N. Fortino, J. Willebois, C. Chekroun

*RADAR 2014*, 13/10/2014, Lille, FR, pp.Session THO.2.6, [hal-01101165](#)

### **Temperature Sensitivity Measurements of a Resistively Loaded Wideband Antenna**

G. Clementi, C. Migliaccio, J.-Y. Dauvignac, J. Willebois

*EuRAD-EuMW*, 08/10/2014, Rome, IT, pp.345-348, [hal-01101164](#)

### **AUTSEG: Automatic Test Set Generator for Embedded Reactive Systems**

M. Abdelmoula, D. Gaffé, M. Auguin

*26th IFIP WG 6.1 International Conference (ICTSS 2014)*, 23/09/2014, Madrid, ES, [hal-01069101](#)

### **Very Fast co-simulation model and accurate on-the-fly performance estimation methodology for heterogeneous MPSoC**

N. Serna, F. Verdier

*IEEE International System-on-Chip Conference (SOCC)*, 02/09/2014, Las Vegas, NV, US, pp.210-215, [hal-01328426](#)

### **Shape gradient optimization for planar antenna arrays**

z. zhao, C. Pichot, C. Dedebar

*IEEE AP-S and USNC-URSI National Radio Science Meeting*, 06/07/2014, Memphis, US, pp.Session Optimization Driven Design, TF221.28, 1954-1955, [hal-01178334](#)

### **Synthesis of Miniature Pattern-Reconfigurable Antennas for Smart Wireless Sensor Nodes**

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

*IEEE International Symposium on Antennas and Propagation (APS)*, 06/07/2014, Memphis, US, pp.1443-1444, [hal-01069100](#)

### **Space Diversity for Robust Wireless Power Transmission in Multipath Environments**

T. Hoang, L. Trinh, F. Ferrero, T.-P. Vuong, J.-L. Dubard

*IEEE International Symposium on Antennas and Propagation - USNC-URSI Radio Science Meeting*, 06/07/2014, Memphis, US, pp.1125-1126, [hal-00987382](#)

### **Exploitation of the UC-PBG Structure as Ground Plane to Enhance Microstrip Antenna Bandwidth**

S. Pflaum, L. Lizzi, P. Le Thuc, G. Kossiavas, R. Staraj

*IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting*, 06/07/2014, Memphis, US, pp. Session Broadband Fractal and Metamaterial-based Antennas, paper 211.1, [hal-00979558](#)

### **Multi-shape Tasks Scheduling for Online Multitasking on FPGAs**

G. Wassi, M. E. A. Benkhelifa, G. Lawday, F. Verdier, S. Garcia

*International Symposium on Reconfigurable Communication-centric Systems-on-Chip (ReCoSoC'2014)*, 26/05/2014, Montpellier, FR, [hal-00991249](#)

### **MRAPI Resource Management Layer on Reconfigurable Systems-on-Chip**

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

*International Symposium on Reconfigurable Communication-centric Systems-on-Chip (ReCoSoC'2014)*, 26/05/2014, Montpellier, FR, pp.1-7, [hal-00987324](#)

### **Challenges in Microwave imaging for medical applications**

C. Pichot

*Workshop "Challenges in medical imaging: numeric, high performance computing, inverse problems"*, 21/05/2014, Glasgow, GB, [hal-01178333](#)

### **MRAPI Implementation for Heterogeneous Reconfigurable Systems-on-Chip**

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

*22nd Annual International Symposium on Field-Programmable Custom Computing Machines (FCCM)*, 11/05/2014, Boston, MA, US, pp.239, [hal-01329302](#)

### **Multi-Standard Miniature Antenna for Smart Wireless Handheld Devices Application**

R. Addaci, D. Seetharamdoo, L. Trinh, F. Ferrero, R. Staraj, M. Berbineau

*8th European Conference on Antennas and Propagation (EuCAP 2014)*, 06/04/2014, La Hague, NL, pp.1569840557.pdf, [hal-00979932](#)

### **Multi-band Multi-Antenna System with New Approach of PIFA Bandwidth Enhancement**

R. Addaci, F. Ferrero, D. Seetharamdoo, L. Trinh, R. Staraj, M. Berbineau

*8th European Conference on Antennas and Propagation (EuCAP 2014)*, 06/04/2014, La Hague, NL, pp.1569862467.pdf, [hal-00979931](#)

### **Performance of a Cross Dipole Antenna Dedicated to Biological Telemetry**

P. Perrissol, A. Diallo, P. Le Thuc, R. Staraj, G. Carle

*8th European Conference on Antennas and Propagation (EuCAP 2014)*, 06/04/2014, La Hague, NL, pp.1569859889.pdf, [hal-00979924](#)

### **System Modeling of the RFID Contactless Inductive Coupling Using 13.56 MHz Loop Antennas**

O. Mourad, P. Le Thuc, R. Staraj, P. Iliev

*8th European Conference on Antennas and Propagation (EuCAP 2014)*, 06/04/2014, La Hague, NL, pp.1569860523.pdf, [hal-00979923](#)

### **Small Antenna Embedded in a Wrist-Watch for Application in Telemedicine**

H. Hamouda, P. Le Thuc, R. Staraj, G. Kossiavas

*8th European Conference on Antennas and Propagation (EuCAP 2014)*, 06/04/2014, La Hague, NL, pp.1569860333.pdf, [hal-00979922](#)

### **Probe-fed Measurement System for F-band Antennas**

A. Bisognin, D. Titz, F. Ferrero, G. Jacquemod, R. Pilard, F. Gianesello, D. Gloria, C. Laporte, H. Ezzeddine, D. Lugara, C. Luxey

*8th European Conference on Antennas and Propagation (EuCAP 2014)*, 06/04/2014, La Hague, NL, pp.1569845323.pdf, [hal-00979921](#)

### **Investigation of Tunable Matching Circuits for Multiband 4G Handsets**

A. Cihangir, F. Ferrero, C. Luxey, A. Reinhardt, L. Dussopt, N. Lorphelin, N. Obeid, P. Brachat

*8th European Conference on Antennas and Propagation (EuCAP 2014)*, 06/04/2014, La Hague, NL, pp.601-604, 1569845315.pdf, [hal-00979569](#)

### **Power Estimation Method Based on Real Measurements for Processor-based Designs on FPGA**

S. Moataz, F. Verdier, C. Belleudy

*International Conference on Computational Science and Computational Intelligence (CSCI 2014)*, 10/03/2014, Las Vegas, US, 2, pp.260-263, [hal-01024820](#)

### **Comparison of receiver architecture in terms of power consumption and Noise Figure for cochlear implants application**

U. Cerasani, P. Ndungidi, W. Tatinian, C. Dualibe, C. Valderrama

*International Conference on Systems (ICONS 2014)*, 23/02/2014, Nice, FR, pp.18-21, [hal-01435870](#)

### **Communications Nationales**

2 publication(s)

### **ESL design approach of Hw/Sw wireless devices based on a Virtual Platform/Network Simulator co-simulation environment**

W. Khelif, H. Affes, M. Auguin, X. Buisson

*Sophia Antipolis Micro-Electronic Symposium (SAME), University Booth*, 02/10/2014, Sophia Antipolis, FR, [hal-01147386](#)

### **Conception et caractérisation d'antennes ULB pour systèmes de télécommunication et Radar**

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

*Journée Communauté de Compétences Techniques "Récentes études dans le domaine des antennes très large bande"*, 27/03/2014, Toulouse, FR, [hal-01178335](#)

### **Communications (Sans Comité de Lecture)**

7 publication(s)

### **Antennes Reconfigurables en Directivité dans les Réseaux de Capteurs. Défis et Verrous Associés**

L. Lizzi, L. Trinh, F. FERRERO, A. Pegatoquet, J. M. Ribero, R. Staraj

*Journée thématique Inter-GDR (SoC-SIP/ONDES)*, 04/12/2014, Paris, FR, pp.Connexion intelligente du futur : quels défis technologiques et sociétaux, [hal-01344459](#)

### **Antenne miniature intégrée sur une montre pour applications en télémédecine**

H. Hamouda

*e-PSP 2014 : colloque annuel d'e-Plateformes de Santé de Proximité*, 27/11/2014, Biot, FR, [hal-01134255](#)

### **Power Management Techniques for Autonomous WSN**

A. Pegatoquet

*UCN@Sophia Labex Seminar*, 30/10/2014, Sophia Antipolis, FR, [hal-01353494](#)

### **Efficient MAC protocol for multi-hopping in autonomous WSN**

T.-N. Le

*Journée thématique Energy Aware Network, Labex UCN@SOPHIA*, 14/10/2014, Sophia Antipolis, FR, [hal-01353492](#)

## **Energy-aware architecture for WBAN sensor node**

C. Belleudy

*Journée thématique Energy Aware Network, Labex UCN@SOPHIA*, 14/10/2014, Sophia Antipolis, FR, [hal-01353490](#)

## **Integrating modelling and experimental platforms in research infrastructure: design and approach in AnaEE-France.**

A. Chanzy, C. Pichot, C. Callou, F. Lafolie, M. Loreau, H. Raynal, L. Greiveldinger

*International Conference on Experimentation in Ecosystem Research in a Changing World: Challenges and Opportunities*, 09/2014, Paris, FR, [hal-01335951](#)

## **Drone for Humanitarian Operations**

T. J. Tanzi, L. Apvrille, J. L. Dugelay, C. Migliaccio, J. Morel, F. Guarnieri

*3rd Institut Mines-Télécom symposium -*, 27/03/2014, Paris, FR, pp.Topic Digital technologies scale and complexity, [hal-01262836](#)

## **Brevets**

1 publication(s)

## **Method for scheduling with deadline constraints, in particular in linux, carried out in user space**

S. Bilavarn, M. K. Bhatti, C. Belleudy

International Application No PCT/IB2013/059916, France, Patent n° : International Application No PCT/IB2013/059916. 2014, 15/05/2014, [hal-01104569](#)

## **Poster**

4 publication(s)

## **Linux Embarqué - Développement de pilotes périphériques**

S. Bilavarn

*13èmes journées pédagogiques du CNFM*, 19/11/2014, Saint-Malo, FR, [hal-01104573](#)

## **Modeling a Node's System-On-Chip for a More Reliable Simulation of Wireless Sensor Networks**

C. Barnes, J.-M. Cottin, F. Verdier, A. Pegatoquet

*Sensors Energy harvesting wireless Network & Smart Objects conference (SENSO)*, 22/10/2014, Aix-en-Provence, FR, [hal-01329305](#)

## **Modeling a Node's System-On-Chip for a More Reliable Simulation of Wireless Sensor Networks**

C. Barnes, J.-M. Cottin, F. Verdier, A. Pegatoquet

*Journée thématique Energy Aware Network, Labex UCN@SOPHIA*, 14/10/2014, Sophia Antipolis, FR, [hal-01329304](#)

## **20-GHz 1-Bit Slotted Active Elementary Cell**

M. Bin Zawawi, J. Lanteri, C. Migliaccio

*8th European Conference on Antennas and Propagation (EuCAP 2014)*, 08/04/2014, The Hague, NL, pp.Session Refectarrays, Transmitarrays and FSSs, Wed.1.8, [hal-01178332](#)

## **Autres**

3 publication(s)

## **Changer le cours magistral : pédagogies actives et classe inversée**

I. Aliferis

Changer le cours magistral : pédagogies actives et classe inversée. 2014 Changer le cours magistral : pédagogies actives et classe inversée, 11/2014, [hal-01359213](#)

## **Changer le cours magistral : pédagogies actives et classe inversée à Polytech'Nice-Sophia**

I. Aliferis

Changer le cours magistral : pédagogies actives et classe inversée à Polytech'Nice-Sophia. 2014 Changer le cours magistral : pédagogies actives et classe inversée à Polytech'Nice-Sophia, 04/2014, [hal-01359214](https://hal.archives-ouvertes.fr/hal-01359214)

## **CLEM version 1.0.0**

D. Gaffé

Dépôt conjoint entre l'UNS (Daniel Gaffé) et l'INRIA Rocquencourt Certificat délivré par l'Agenc.. 2014  
Dépôt conjoint entre l'UNS (Daniel Gaffé) et l'INRIA Rocquencourt Certificat délivré par l'Agence pour la  
Protection des Programmes (AAP) Inter Deposit Digital Number IDDN.FR.001.170011.000.S.P.2014.000.1,  
02/2014, [hal-01345667](https://hal.archives-ouvertes.fr/hal-01345667)

**Soit un total de 72 publication(s)**

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