

Publication du LEAT de l'année 2016

4 juillet 2018



1 Articles en Revue ou Journal avec Comité de Lecture (9 publication(s))

- **A Complete Automatic Test Set Generator for Embedded Reactive Systems : From AUTSEG V1 to AUTSEG V2**, Mariem Abdelmoula, Daniel Gaffé, Michel Auguin, *International Journal On Advances in Systems and Measurements*, 9(3-4), pp.154-166, 12/2016, hal-01564594
- **Power Modeling and Exploration of Dynamic and Partially Reconfigurable Systems**, Robin Bonamy, Sébastien Bilavarn, Daniel Chillet, Olivier Sentieys, *Journal of Low Power Electronics*, (September), 09/2016, hal-01345664
- **Coupling thermometer for sensing antenna**, Mathieu Cosker, Robert Staraj, Jean-Marc Ribero, *Microwave and Optical Technology Letters*, 58(7), pp.1557-1560, 07/2016, hal-01346932
- **Improving Energy Efficiency of Mobile WSN Using Reconfigurable Directional Antennas**, Trong-Nhan Le, Alain Pegatoquet, Le Huy Trinh, Leonardo Lizzi, Fabien Ferrero, *IEEE Communications Letters*, 20(6), pp.1243-1246, 06/2016, hal-01315335
- **Compact modeling of UWB antenna 3D Near Field radiation using Spherical Vector Wave Expansion and Cauchy methods**, Abdellah Roussafi, Nicolas Fortino, Jean-Yves Dauvignac, *IEEE Antennas and Wireless Propagation Letters*, 16 pp.173-176, 11/05/2016, hal-01315336
- **Bi-band fresnel reflectarray for unmanned aerial system (UAS)-satellite communication**, O. Ba, Jerome Lanteri, Claire Migliaccio, W. Menzel, *Microwave and Optical Technology Letters*, 58(5), pp.1025-1028, 05/2016, hal-01325838
- **Fabrication, simulations, and measurements of self-assembled millimeter-wave antennas for system-on-chip applications**, Sae-Wong Lee, Ying Chen, Diane Titz, Fabien Ferrero, Cyril Luxey, Rodney Vaughan, Meenakshinathan Parameswaran, *Microsystem Technologies*, 22(3), pp.583-592, 03/2016, hal-01254250
- **Beam Switching Conformal Antenna Array for mm-Wave Communications**, V. Semkin, Fabien Ferrero, A. Bisognin, J. Ala-Laurinaho, C. Luxey, F. Devillers, A. V. Räisänen, *IEEE Antennas and Wireless Propagation*

- **Techniques de gestion de puissance dans les systèmes sur puce**, Hend Affes, Michel Auguin, François Verdier, *Techniques de l'Ingenieur*, 2016, hal-01322321

2 Brevets (4 publication(s))

- **Dispositif RFID de détermination de l'état de fonctionnement et d'identification d'un appareil électrique**, Mathieu Cosker, Jean-Marc Ribero, Robert Staraj, 1555947, *France, N de brevet : 1555947. 2016, pp.référence 069793 : 669/Domodetect, 29/12/2016*, hal-01691474
- **Miniature Wireless Alarm Device**, Aliou Diallo, Robert Staraj, Philippe Le Thuc, Imen Cherif, WO2016177837 (A1), *France, Patent n : WO2016177837 (A1). CMA. 2016, 11/11/2016*, hal-01486622
- **Procédé hors-ligne d'allocation d'un logiciel embarqué temps réel sur une architecture microcontrôleur multicoeur et son utilisation pour des applications embarquées dans un véhicule automobile**, Sylvain Cotard, Wenhao Wang, Benoit Miramond, F. Camut, No 3 045 870. Reference 15 62954, 2016, *France, Patent n : No 3 045 870. Reference 15 62954, 2016. MCSOC. 2016, 2016*, hal-01767258
- **Off-line allocation method of embedded and real-time software on a multicore architecture and its use for embedded applications in automotive vehicle**, Sylvain Cotard, Wenhao Wang, Benoit Miramond, Fabrice Camut, PCT/FR2016/053578, Reference MFR9019 PCT, 2016, *France, Patent n : PCT/FR2016/053578, Reference MFR9019 PCT, 2016. MCSOC. 2016, 2016*, hal-01767246

3 Communications Invitées (2 publication(s))

- **Validating a Wireless Protocol Implementation at Binary Level through Simulation Using High Level Description of Protocol Properties in Light Esterel**, Calypso Barnes, François Verdier, Alain Pegatoquet, Daniel Gaffé, Jean-Marie Cottin, *International Conference on Wireless and Mobile Communications (ICWMC 2016)*, 13/11/2016, Barcelone, ES, hal-01352779
- **Spherical Near-field Probe Fed Antenna Techniques for Accurate Millimeter Wave Measurements**, Fabien Ferrero, Stuart Gregson, Jérôme Lanteri, Yoan Benoit, Laurent Brochier, Claire Migliaccio, Jean-Yves Dauvignac, *European Conference on Antennas and Propagation (EuCAP)*, 10/04/2016, Davos, CH, pp.CS20.5 : AMTA/EurAPP Session, Measurement of Millimeter-Wave Antennas (4021-4024), hal-01310690

4 Communications Internationales Avec Actes (41 publication(s))

- **Comparison of Different Reconfigurable Directional Antennas for Improving WSN Autonomy**, Trong-Nhan Le, Le Huy Trinh, Fabien Ferrero, Leonardo Lizzi, Alain Pegatoquet, *Sensor Systems and Software - 7th International Conference, S-Cube 2016*, 01/12/2016, Sophia-Antipolis- Nice, FR, hal-01584784
- **Reconfigurable and Long-Range Wireless Sensor Node for Long Time Operation**, Nabil Islam, Fabien Ferrero, Leonardo Lizzi, Christophe Danchesi, Stephane Boudaud, *Sensor Systems and Software - 7th International Conference, S-Cube 2016*, 01/12/2016, Sophia-Antipolis- Nice, FR, pp.130–136, hal-01583228
- **A formal approach to the mapping of tasks on an heterogenous multicore, energy-aware architecture**, Emilien Kofman, Robert De Simone, *MEMOCODE'16 - 14th ACM-IEEE International Conference on Formal*

- **CPW uniplanar and monobloc balanced 3-way power divider for wearable antennas**, Tsitoha Andriamiharivola, Mathieu Cosker, Pierre Lemaitre-Auger, Smail Tedjini, Franck Tirard, *Conference on Antenna Measurements Applications (CAMA)*, 23/10/2016, Syracuse (NY), US, pp.1-4, hal-01572139
- **Antenna measurement using cylindrical coefficients modes(CMCs) in non-anechoic environnement**, C. Diakite, Jérôme Lanteri, Claire Migliaccio, *Conference on Antenna Measurements Applications (CAMA)*, 23/10/2016, Syracuse (NY), US, pp.1-4, hal-01572135
- **Compact modeling of UWB antenna radiation pattern in TTW context**, Abdellah Roussafi, Laurent Brochier, Nicolas Fortino, Jean-Yves Dauvignac, *Conference on Antenna Measurements Applications (CAMA)*, 23/10/2016, Syracuse (NY), US, pp.1-4, hal-01571682
- **Verification of Temporal Properties of Neuronal Archetypes Modeled as Synchronous Reactive Systems**, Elisabetta De Maria, Alexandre Muzy, Daniel Gaffé, Annie Ressouche, Franck Grammont, *HSB 2016 - 5th International Workshop Hybrid Systems Biology*, 20/10/2016, Grenoble, FR, pp.15, hal-01377288
- **FPGA-based bio-inspired architecture for multi-scale attentional vision**, Nicolas Cuperlier, Frédéric Demelo, Benoit Miramond, *Conference on Design & Architectures for Signal & Image Processing (DASIP)*, 12/10/2016, Rennes, FR, pp.231-232, hal-01343903
- **Generation of Schedule Tables on Multi-core Systems for AUTOSAR Applications**, Wenhao Wang, Fabrice Camut, Benoit Miramond, *Conference on Design & Architectures for Signal & Image Processing (DASIP)*, 12/10/2016, Rennes, FR, pp.191-198, hal-01343901
- **TLM numerical thermal dosimetry in realistic environnement**, Oulid Makhlouf, Marylène Cueille, Jean-Lou Dubard, *2016 IEEE Radio and Antenna Days of the Indian Ocean (RADIO)*, 10/10/2016, Réunion, FR, pp.1-2, hal-01630713
- **Design of compact integrated diodes Pifa rectennas for energy harvesting application**, Van-Hieu Nguyen, Jean-Lou Dubard, Alexandre Douyère, *Radio and Antenna Days of the Indian Ocean (RADIO)*, 10/10/2016, Reunion Island, FR, pp.1-2, hal-01571322
- **Offset reflectarray fed by a printed source**, Fabien Ferrero, Jérôme Lanteri, Laurent Brochier, Claire Migliaccio, *European Radar Conference (EuRAD)*, 05/10/2016, London, GB, pp.382-385, hal-01571386
- **Towards the Verification of Industrial Communication Protocols through a Simulation Environment Based on QEMU and SystemC**, Calypso Barnes, Jean-Marie Cottin, François Verdier, Alain Pegatoquet, *ACM/IEEE 19th International Conference on Models Driven Engineering Languages and Systems (MODELS 2016)*, 02/10/2016, Saint-Malo, FR, pp.207-214, hal-01344890
- **Design of antennas enabling miniature and energy efficient wireless IoT devices for smart cities**, Leonardo Lizzi, Fabien Ferrero, Christophe Danchesi, Stéphane Boudaud, *IEEE International Smart Cities Conference (ISC2)*, 12/09/2016, Trento, IT, pp.1-5, hal-01427682
- **Attention-based smart-camera for spatial cognition**, Nicolas Cuperlier, Hakim Guedjou, Frédéric Demelo, Benoit Miramond, *10th International Conference on Distributed Smart Cameras (ICDSC 2016)*, 12/09/2016, Paris, FR, hal-01343906
- **Developing a Framework Dedicated to Wireless Protocol Property Validation during Simulation**, Calypso Barnes, Jean-Marie Cottin, François Verdier, Alain Pegatoquet, Daniel Gaffé, *Euromicro Conference on Digital System Design (DSD)*, 31/08/2016, Limassol, CY, pp.Work in Progress session, hal-01343907

- **Energy Modeling and Architecture Exploration for Emotion Detection Systems**, Chaka Koné, Cécile Belleudy, Nhan Le Thanh, *Euromicro Conference on Digital System Design (DSD)*, 31/08/2016, Limassol, CY, hal-01343899
- **Wind Energy Harvesting for Autonomous Wireless Sensor Networks**, A. Jushi, Alain Pegatoquet, Trong-Nhan Le, *Euromicro Conference on Digital System Design (DSD)*, 31/08/2016, Limassol, CY, pp.301-308, hal-01343896
- **Efficiency Modeling and Analysis of 64-bit ARM Clusters for HPC**, Joel Wanza, Sébastien Bilavarn, Said Derradji, Cécile Belleudy, Sylvie Lesmanne, *Euromicro Conference on Digital System Design (DSD)*, 31/08/2016, Limassol, CY, hal-01309531
- **Design of miniature antennas for IoT applications**, Leonardo Lizzi, Fabien Ferrero, Philippe Monin, Christophe Danchesi, Stéphane Boudaud, *IEEE Sixth International Conference on Communications and Electronics (ICCE)*, 27/07/2016, Ha Long, VN, pp.234-237, hal-01427685
- **An ESL framework for low power architecture design space exploration**, Hend Affes, Amal Ben Ameer, Michel Auguin, François Verdier, *IEEE International Conference on Application-specific Systems, Architectures and Processors*, 06/07/2016, Londres, GB, pp.227-228, hal-01315340
- **Quantitative millimeter-wave imaging in W-band**, Florence Nsengiyumva, Christian Pichot, Claire Migliaccio, Jérôme Lanteri, Ioannis Aliferis, *International Symposium on Antennas and Propagation (APSURSI)*, 26/06/2016, Fajardo, PR, pp.859 - 860, hal-01571646
- **Super-directive parasitic element antenna for spatial filtering applications**, Fabien Ferrero, Leonardo Lizzi, *IEEE International Symposium on Antennas and Propagation (APSURSI)*, 26/06/2016, Fajardo, PR, pp.1753-1754, hal-01427678
- **Environmental sensitivity of miniature antennas for IoT devices**, Fabien Ferrero, Leonardo Lizzi, Christophe Danchesi, Stéphane Boudaud, *IEEE International Symposium on Antennas and Propagation (APSURSI)*, 26/06/2016, Fajardo, PR, pp.1749-1750, hal-01427675
- **3D flexible antenna realization process using liquid metal and additive technology**, Mathieu Cosker, Fabien Ferrero, Leonardo Lizzi, Robert Staraj, Jean-Marc Ribero, *IEEE International Symposium on Antennas and Propagation (APSURSI)*, 26/06/2016, Fajardo, PR, pp.809-810, hal-01427671
- **TLM Computation of Temperature Distribution in Human Head Exposed to Electromagnetic Wave**, Oualid Makhoul, Marylène Cueille, Jean-Lou Dubard, *IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting (AP-S)*, 26/06/2016, Fajardo, PR, pp.637-638, hal-01345946
- **Differential Pattern-Reconfigurable Antenna Prototype for Efficient Wireless Sensor Networks**, Leonardo Lizzi, Fabien Ferrero, Jean-Marc Ribero, Robert Staraj, Trong-Nhan Le, Alain Pegatoquet, L.H. Trinh, *IEEE International Symposium on Antennas and Propagation and North American Radio Science (AP-S)*, 26/06/2016, Fajardo, PR, pp.1239-1240, hal-01343895
- **Thermal Dosimetry in Human Head based on TLM method**, Oualid Makhoul, Marylène Cueille, Jean-Lou Dubard, *International Conference on Bioelectromagnetics and the annual joint Meeting of the Bioelectromagnetics Society (BEMS) and the European BioElectromagnetics Association (EBEA)*, 05/06/2016, Ghent, BE, hal-01345945
- **Progress on Ultra-wideband Multi-Antenna Radar Imaging for MIGA**, M. Yedlin, Jean-Yves Dauvignac,

- **Comparative Analysis of Different Excitation Techniques for Cylindrical Dielectric Resonator Antenna**, Kaoutar Allabouche, Fabien Ferrero, Najiba El Amrani El Idrissi, Mohammed Jorio, Jean-Marc Ribero, Leonardo Lizzi, Abdellatif Slimani, *The Second International Symposium on Ubiquitous Networking*, 30/05/2016, casablanca, MA, pp.311–319, hal-01583799
- **A wake-up receiver with ad-hoc antenna co-design for wearable applications**, Tommaso Polonelli, L.H. Trinh, Leonardo Lizzi, Fabien Ferrero, Michele Magno, *IEEE Sensors Applications Symposium (SAS)*, 22/04/2016, Catania, IT, pp.1-6, hal-01427670
- **Investigation of hand effect on a handheld terminal at 11 GHz**, Cyril Buey, Fabien Ferrero, Leonardo Lizzi, Philippe Ratajczak, Yoan Benoit, Laurent Brochier, *European Conference on Antennas and Propagation (EuCAP)*, 10/04/2016, Davos, CH, pp.2046-2049, hal-01427679
- **An unconditionally stable thermal TLM algorithm for dosimetric applications**, Oualid Makhlof, Marylène Cueille, Jean-Lou Dubard, *European Conference on Antennas and Propagation (EuCAP)*, 10/04/2016, Davos, CH, hal-01345944
- **Enabling Miniature Position Tracker Using LoRa and GPS Technology**, Printice Monin, Fabien Ferrero, Leonardo Lizzi, Christophe Danchesi, Nicolas Sornin, Stéphane Boudaud, *European Conference on Antennas and Propagation (EuCAP)*, 10/04/2016, Davos, CH, pp.CS09.1 : Antenna for IoT applications (2905-2908), hal-01310689
- **New Method for 3D Miniature Antenna Fabrication Based on Liquid Metal and 3D Printer**, Mathieu Cosker, Leonardo Lizzi, Fabien Ferrero, Robert Staraj, Jean-Marc Ribero, *European Conference on Antennas and Propagation (EuCAP)*, 10/04/2016, Davos, CH, pp.PS4.1 (2209-2212), hal-01310687
- **Pattern-Reconfigurable Antenna Suitable for Autonomous Wireless Nodes**, L.H. Trinh, Leonardo Lizzi, Fabien Ferrero, *European Conference on Antennas and Propagation (EuCAP)*, 10/04/2016, Davos, CH, pp.CS32b.4 Reconfigurable Antennas for Autonomous Devices (737-740), hal-01310682
- **Microstrip Antenna Array Integrated with 60 GHz Band CMOS Injection Locked Power Amplifier**, Alexander V. Bondarik, Markus Törmänen, Daniel Sjöberg, Henrik Sjöland, Aimeric Bisognin, Fabien Ferrero, Cyril Luxey, *European Conference on Antennas and Propagation (EuCAP)*, 10/04/2016, Davos, CH, pp.A6.6 Antenna Arrays, 1-4, hal-01310680
- **Bandwidth enhancement of rectangular dielectric resonator antenna for UMTS application**, Kaoutar Allabouche, Fabien Ferrero, Mohammed Jorio, Jean-Marc Ribero, Najiba El Amrani El Idrissi, Leonardo Lizzi, *International Conference on Information Technology for Organizations Development (IT4OD)*, 30/03/2016, fez, MA, pp.1-5, hal-01571624
- **Optimizing Application Distribution on Multi-Core Systems within AUTOSAR**, Wenhao Wang, Sylvain Cotard, Fabrice Gravez, Yael Chambrin, Benoit Miramond, *8th European Congress on Embedded Real Time Software and Systems (ERTS 2016)*, 27/01/2016, TOULOUSE, FR, hal-01289485
- (Poster) **Wireless Sensor Network Protocol Property Validation through the System's Simulation in a Dedicated Framework**, Calypso Barnes, François Verdier, Alain Pegatoquet, Daniel Gaffé, Jean-Marie Cottin, *International Conferences on Signal Processing and Communication Systems (ICSPCS)*, 19/12/2016, Surfers Paradise, Gold Coast, AU, pp.1-9, hal-01435477
- (Poster) **Directional Reconfigurable Antenna for Efficient Wireless Sensor Networks**, Trong-Nhan Le,

5 Communications Nationales Avec Actes (1 publication(s))

- **Distribution of Real-Time Software on Multi-Core Architectures in Automotive Systems**, Wenhao Wang, Benoit Miramond, Fabrice Camut, *Conférence d'informatique en Parallélisme, Architecture et Système (COMPAS)*, 05/07/2016, Lorient, FR, hal-01344279

6 Communications Sans Actes (5 publication(s))

- **Real-Time Software Distribution on Multi-Core Architectures in Automotive Systems**, Wenhao Wang, Benoit Miramond, Fabrice Camut, *Colloque GDR SoC-SiP (System On Chip - System In Package)*, 08/06/2016, Nantes, FR, hal-01344465
- **Système de Détection des émotions : architecture et autonomie**, Chaka Koné, Cécile Belleudy, Nhan Le Thanh, *Colloque GDR SoC-SiP (System On Chip - System In Package)*, 08/06/2016, Nantes, FR, hal-01344464
- **Conception et modélisation d'antennes pour les objets RFID**, Robert Staraj, Philippe Le Thuc, *Forum du Comité Stratégique d'ARCSIS*, 27/05/2016, Montpellier, FR, hal-01361232
- **Energy Harvesting : état de l'art des solutions matérielles, enjeux sur les protocoles et la gestion de l'énergie**, Alain Pegatoquet, *Journée Inter GDR SOC-SIP/RSD sur les défis scientifiques et technologiques autour des objets connectés*, 30/03/2016, Paris, FR, hal-01344466
- **Multicore SMT scheduling of periodic task systems with energy minimization**, Emilien Kofman, Robert De Simone, Amani Khecharem, *Workshop on Highly-Reliable Power-Efficient Embedded Designs*, 12/03/2016, Barcelone, ES, hal-01282264

7 Thèses et HDR (5 publication(s))

- (THESE) **Modélisation compacte du rayonnement d'antennes ULB en champ proche/champ lointain : mise en application en présence d'interface**, Abdellah Roussafi, Université Côte d'Azur, 13/12/2016, tel-01491022
- (THESE) **Nouveau modèle TLM thermique pour la dosimétrie numérique de structures fortement hétérogènes**, Oualid Makhlouf, Université Côte d'Azur, 06/12/2016, tel-01486566
- (THESE) **Contribution à la détection d'objets sur pistes d'aéroport (FOD) par tomographie millimétrique en bande W et polarimétrie**, Florence Nsengiyumva, Université Nice Sophia Antipolis, 12/07/2016, tel-01382856
- (HDR) **ANTENNA DESIGN AND CHARACTERIZATION FOR MINIATURE WIRELESS OBJECTS**, Fabien Ferrero, Université de Nice - Sophia Antipolis, 03/05/2016, tel-01656773
- (HDR) **Contribution à la conception d'antennes et de systèmes antennaires pour objets communicants et capteurs**, Philippe Le Thuc, Université de Nice Sophia Antipolis, 12/01/2016, tel-01651472

8 Rapport de Recherche (2 publication(s))

- **Verification of Temporal Properties of Neuronal Archetypes Using Synchronous Models**, Elisabetta De Maria, Alexandre Muzy, Daniel Gaffé, Annie Ressouche, Franck Grammont, 22/07/2016, [Research Report] RR-8937, UCA, Inria; UCA, I3S; UCA, LEAT; UCA, LJAD. 2016, pp.21, hal-01349019
- **Antenne miniature UHF pour tag RFID spécial**, Tuyen Pham, [Stage] Université de Nice-Sophia Antipolis. 2016, hal-01716847

9 Autres (5 publication(s))

- **Atelier amphi interactif**, , ISA. Atelier amphi interactif. 2016 Atelier amphi interactif, 11/07/2016, hal-01359207
- **Électromagnétisme en classe inversée à Polytech’Nice Sophia**, , ISA. Électromagnétisme en classe inversée à Polytech’Nice Sophia. 2016 Électromagnétisme en classe inversée à Polytech’Nice Sophia, 11/07/2016, hal-01359206
- **Pédagogies actives : pourquoi et comment ?**, , ISA. La tournée du PI - Learning Centre, Campus SophiaTech, Université Nice Sophia Antipolis. 2016 La tournée du PI - Learning Centre, Campus SophiaTech, Université Nice Sophia Antipolis, 09/06/2016, hal-01366178
- **Librairie de modèles C++/SystemC-TLM pour la modélisation par simulation d’architectures contrôlées en puissance consommée**, , MCSOC. Déclaration d’Invention déposée auprès de la Délégation Régionale Côte d’Azur CNRS. .. 2016 Déclaration d’Invention déposée auprès de la Délégation Régionale Côte d’Azur CNRS. Cette librairie de modèles permet de structurer un modèle fonctionnel d’une architecture modélisée en SystemC-TLM pour décrire le partitionnement de ses composants fonction, 06/2016, hal-01345666
- **Nouvelles formes et progrès de l’enseignement interactif**, , ISA. Nouvelles formes et progrès de l’enseignement interactif. 2016 Nouvelles formes et progrès de l’enseignement interactif, 26/05/2016, hal-01359209

Soit un total de 74 publication(s)