



## Publications

**Publications dans des revues : 33**

**Publications dans des ouvrages : 1**

**Publications dans des conférences (IEEE inclus) : 55**

**Publications dans des conférences IEEE : 12**

### Publications dans des revues

**1. Radio Frequency Mapping using an Autonomous Robot: Application to the 2.4 GHz Band**

IOP Conf. Series: Material Science and Engineering, Volume , Issue , 2016, pp.

*Jean Lebreton, Nour Murad and Richard Lorion*

**2. Cluster-Head Techniques for Single-hop Routing protocol in Energy-Efficient Wireless Sensor Networks**

IoP Conference'16, Volume , Issue , 2016, pp.pp. 1-4

*S. Kandukuri, N. Murad, and R. Lorion*

**3. A novel non-linear model-based control strategy to improve PEMFC water management - The flatness-based approach**

International Journal of Hydrogen Energy , Volume 40, Issue 5, february 2015, pp.2371 - 2376

*Damour C, Benne M, Grondin-Perez B, Chabriat J-P, Pollet B-G*

**4. Neural model-based self-tuning PID strategy applied to PEMFC**

Engineering, Volume Vol. 6, Issue No. 4, March 2014, pp.159-168

*Damour, C., Benne, M., Grondin-Perez, B. and Chabriat, J.-P.*

**5. Regionalizing rainfall at very high resolution over La Réunion island using a regional climate model**

Monthly Weather Review, Volume accepted 2014, Issue , 2014, pp.

*Beatrice MOREL; Benjamin POHL; Yves RICHARD; Benjamin BOIS; Miloud BESSAFI*

**6. Mechanistic Model versus Artificial Neural Network Model of a Single-cell PEMFC**

Engineering, Volume 6, Issue , July 2014, pp.418-426

*B. Grondin Perez, S. Roche, C. Lebreton, M. Benne, C. Damour, J. J. A. Kadjo*

**7. On-Line PEMFC Control Using Parameterized Nonlinear Model-Based Predictive Control**

Fuel Cells, Volume 14, Issue 6, december 2014, pp.886-893

*C. Damour<sup>1</sup>, M. Benne<sup>1\*</sup>, J.-J. A. Kadjo<sup>1</sup>, J. Deseure<sup>2,3</sup>, B. Grondin-Perez<sup>1</sup>*

<sup>1</sup> LE2P EA 4079, University of La Reunion, 97715 Saint-Denis, France

<sup>2</sup> Univ. Grenoble Alpes, LEPMI, F-38000 Grenoble, France

<sup>3</sup> CNRS, LEPMI, F-38000 Grenoble, France

**8. Real-time implementation of a neural model-based self-tuning PID strategy for oxygen stoichiometry control in PEM fuel cell**

International of Hydrogen Energy, Volume 39, Issue 24, August 2014, pp.12819-12825

*C. Damour, M. Benne, C. Lebreton, J. Deseure, B. Grondin-Perez*

**9. Lifetime optimization of wireless sensor network by a better nodes positioning and energy distribution**

IOP Conf. Series: Material Science and Engineering, Volume vol. 67, Issue , October 2014, pp.

*Jean Lebreton and Nour Murad*

**10. Fast NMPC scheme of a 10 kW commercial PEMFC**

International Journal of Hydrogen Energy, Volume 38, Issue 18, June 2013, pp.7407-7413

*Damour C\*, Benne M\*, Kadjo J-J A\*, Rosini S\*\* and Grondin-Perez B\**

\* LE2P, University of La Reunion

\*\* LITEN, CEA France

**11. Estimation of MEA parameters and prediction of PEM fuel cells electrical performances using numerical modelling**

Russian Journal of Electrochemistry, Volume 49, Issue 4, avril 2013, pp.313-323

*Kadjo A. J-J\*, Martemianov S\*\* and Chabriat J-P\**

\* LE2P, University of La Reunion

\*\* PPRIME, University of Poitiers

**12. Ultra-Low Power, Low Voltage, Self-Powered Resonant DC-DC Converter for Energy Harvesting**

Journal Low Power Electronic, Volume 9, Issue , April 2013, pp.103-107

*Salah-Eddine Adami\*\*, Nicolas Degrenne\*\*, Walid Haboubi\*, Hakim Takhedmit\*, Denis Labrousse\*\*\*, François Costa\*\*\*,*

*Bruno Allard\*\*, Jean Daniel Lan Sun Luk, Laurent Cirio\*, Odile Picon\*, and Christian Vollaire\*\**

*(\*) ESYCOM, Univ. Paris-Est Marne La Vallée, (\*\*) AMPERE, Ecole Centrale de Lyon, (\*\*\*) SATIE, Ecole Normale Supérieure Cachan*

**13. Innovative model-based control approach of a proton exchange membrane fuel cell system**

Journal of Power Sources, Volume 206, Issue 0, 2012, pp.144 - 152

*Damour C.\*, Grondin D.\*, Benne M.\*, Grondin-Perez B.\*, Deseure J.\*\* and Chabriat J.-P.\**

\* LE2P, University of La Reunion

\*\* LEPMI, UMR CNRS 5279, France

**14. Energy efficiency improvement of an industrial crystallization process using linearizing control**

Journal of Crystallization Process and Technology, Volume 2, Issue 2, avril 2012, pp.44-54

*Damour C.\*, Benne M.\*, Boillereaux L.\*\*, Grondin-Perez B.\* and Chabriat J.-P.\**

\* LE2P, University of La Reunion

\*\* GEPEA, UMR CNRS 6144, France

**15. Hurricane track forecast cones from fluctuations**

Nature, Scientific Reports, Volume 2, Issue 446, 2012, pp.

*Meuel T., Prado G., Seychelles F., Bessafi M. and Kellay H.*

**16. Network lifetime maximising distributed forwarding strategies in ad hoc wireless sensor networks**

Communications, IET (Institution of Engineering and Technology), Volume 6, Issue 14, September 2012, pp.2138-2148

*Panigrahi, B.\*, De, S \*, Panda, B. S.\*, Lan Sun Luk, J. D.*

*(\*) IIT New Dehli*

**17. Multivariable linearising control of a cane sugar crystallization process**

Journal of Process Control, Volume 21, Issue 1, janvier 2011, pp.46-54

*Damour C.\*, Benne M.\*, Boillereaux L.\*\*, Grondin-Perez B.\* and Chabriat J.-P.\**

\* LE2P, University of La Reunion

\*\* GEPEA, CNRS UMR 6144, France

- 18. NMPC of an industrial crystallization process using model-based observer**  
Journal of Industrial and Engineering Chemistry, Volume 16, Issue 5, septembre 2010, pp.708-716  
*Damour C.\*, Benne M.\*, Boillereaux L.\*\*, Grondin-Perez B.\* and Chabriat J.-P.\**  
\* LE2P, University of La Reunion  
\*\* GEPEA, CNRS UMR 6144, France
- 19. Soft-sensor for industrial sugar crystallization: on-line mass of crystal, concentration and purity measurement**  
Control Engineering Practice, Volume 18, Issue 8, aout 2010, pp.839-844  
*Damour C., Benne M., Grondin-Perez B. and Chabriat J.-P.*
- 20. Nonlinear predictive control based on artificial neural network model for industrial crystallization**  
Journal of Food Engineering, Volume 99, Issue 2, juillet 2010, pp.225-231  
*Damour C., Benne M., Grondin-Perez B. and Chabriat J.-P.*
- 21. Thermo-mechanical phenomena in PEM fuel cells**  
International Journal of Energy Research, Volume 34, Issue , mai 2010, pp.635-642  
*Martemianov S. and Bograchev D. and Grandidier J.-C. and Kadjo A. J.-J.*
- 22. Nocturnal temperature changes over tropics during CAWSES-III campaign: Comparison with numerical models and satellite data**  
Journal of Atmospheric and Solar-Terrestrial Physics, Volume 72, Issue 16, 2010, pp.1171-1179  
*Jaya Prakash Raju U., Keckhut P., Courcoux Y., Marchand M., Bekki S., Morel B., Bencherif H. and Hauchecorne A.*
- 23. Study of complete WPT system for WSN applications at low power level**  
IEE EElectronics Letters, Volume 46 - Issue 8, Issue , Avril 2010, pp.597-598  
*S. Rivière, A. Douyère, F. Alicalapa, and J.D. Lan Sun Luk*
- 24. A Compact Rectenna Device at Low Power Level**  
Progress In Electromagnetics Research C, Volume 16, Issue , 2010, pp.137-146  
*S. Riviere, F. Alicalapa, A. Douyere, and J.-D. Lan Sun Luk*
- 25. On-line estimation of mother liquor purity during the final stage of a cane sugar crystallization plant using neural network**  
International Sugar Journal, Volume CXI, Issue 1332, décembre 2009, pp.751-756  
*Grondin-Perez B., Benne M., Damour C. and Chabriat J-P*
- 26. Identification of an industrial predictor of C massecuite purity using neural networks**  
Zucker Industrie, Volume 134, Issue 59, mars 2009, pp.178  
*Grondin-Perez B., Benne M. and Chabriat J.-P.*
- 27. Diurnal changes in middle atmospheric H2O and O3: Observations in the Alpine region and climate models**  
**Diurnal changes in middle atmospheric H2O and O3: Observations in the Alpine region and climate models**  
Journal of Geophysical Research, Volume 113, Issue , 2008, pp.  
*Haefele A., Hocke K., Kämpfer N., Keckhut P., Marchand M., Bekki S., Morel B., Egorova T. and Rozanov E.*
- 28. Efficiency Microwave Rectenna Circuit: Modelling and Design**  
IEE Electronics Letters, Volume 44 - Issue 24, Issue , Novembre 2008, pp.  
*DOUYÈRE A., LAN SUN LUK J.-D. and ALICALAPA F.*
- 29. Supervision of C crystallisation in Bois Rouge sugar mill using on-line crystal content estimation using synchronous microwave and refractometric brix measurements**  
Journal of Food Engineering, Volume 76, Issue 4, octobre 2006, pp.639-645  
*Grondin-Perez B., Benne M. and Chabriat J.-P.*
- 30. Industrial multistep predictor of mother liquor purity of the final stage of cane sugar crystallization plant**  
Journal of Food Engineering, Volume 66, Issue 3, février 2005, pp.361-367  
*Grondin-Perez B., Benne M., Bonnezeze C. and Chabriat J.-P.*

**31. ANNs for modeling and predictive control of an industrial evaporation process**

Journal of Food Engineering, Volume 46, Issue 4, décembre 2000, pp.227-234

*Benne M., Grondin-Perez B., Chabriat J.-P. and Hervé P.*

**32. Modelling of evaporation and crystallisation processes in sugar cane industry. Part 2 : structure and performance of the models**

International Sugar Journal, Volume 101, Issue 1209, septembre 1999, pp.457-461

*Benne M., Grondin-Perez B., Lan-Sun-Luk J.-D. and Chabriat J.-P.*

**33. Modelling of evaporation and crystallisation processes in sugar cane industry. Part 1 : a new approach using neural networks**

International Sugar Journal, Volume 101, Issue 1208, août 1999, pp.418-422

*Benne M., Grondin-Perez B., Lan-Sun-Luk J.-D. and Chabriat J.-P.*

## Publications dans des ouvrages

**1. A Method for Mapping Monthly Solar Irradiation Over Complex Areas of Topography: Reunion Island's Case Study**

Climate Smart Technologies - Integrating Renewable Energy and Energy Efficiency in Mitigation and Adaptation Responses, Volume 978-3-642-37752-5 (ISBN), Issue , 2013, pp.295-306

*Miloud Bessafi, Béatrice Morel, Jean-Daniel Lan-Sun-Luk, Jean-Pierre Chabriat and Patrick Jeanty*

## Publications dans des conférences

**1. An Energy-Efficient Addressing Mechanism for Wake-up Radio Systems**

IEEE Wireless Telecommunications Symposium 2016, London, Volume , Issue , 18-20 April 2016, pp.

*Jean Lebreton and Nour Murad*

**2. Energy- Efficient Cluster-Based Protocol using An Adaptive Data Aggregative Window Function (ADAWF) for Wireless Sensor Networks**

IEEE WoWMoM'16, Portugal (in reviewing), Volume , Issue , June 2016, pp.1-3

*S. Kandukuri, J. M. Lebreton, N. Murad, R. Lorion, and J. D. LAN-SUN-LUK*

**3. Energy-Efficient Data Aggregation Techniques for Exploiting Spatio-Temporal Correlations in Wireless Sensor Networks**

IEEE WTS'16, London, Volume , Issue , April 2016, pp.1-6

*S. Kandukuri, N. Murad, R. Lorion, and J. D. LAN-SUN-LUK*

**4. DC-Pass Filter Conception for CPW Rectenna Design**

IEEE Conference Radio and Antenna Days of the Indian Ocean (RADIO), Volume , Issue , Septembre 2015, pp.

*J. Rivière, A. Douyère , F. Alicalapa and J.-D. Lan Sun Luk*

**5. Wireless Low Power Transmission by microwaves in ISM Band**

New electrical technologies for environment congress (ISNPEDADM), Volume , Issue , octobre 2015, pp.

*A. Douyère, J. Rivière, J.-D. Lan Sun Luk and J.-P. Chabriat*

**6. Analyse des performances d'un réseau de rectennas miniatures pour la télé-alimentation de dispositifs à faible consommation**

Journées Nationales Micro-ondes (JNM), Volume , Issue , Juin 2015, pp.

*J. Rivière, A. Douyère and J.-D. Lan Sun Luk*

**7. Implementation of a Wake-up Radio Cross-Layer Protocol in OMNeT++/MiXiM**

2nd International OMNeT++ Community Summit 2015, Volume , Issue , 3-4 September 2015, pp.

*Jean Lebreton and Nour Murad*

### **8. Real-Time Radio Signal Mapping using an Autonomous Robot**

IEEE Radio and Antenna Days of the Indian Ocean, Volume , Issue , 21-24 September 2015, pp.

*Jean Mickael Lebreton, Nour Murad and Richard Lorion*

### **9. Thrust produced by corona discharge - Application to electrohydrodynamic propulsion**

AIAA Science and Technology Forum and Exposition 2014, Volume , Issue , June 2014, pp.

*Moreau Eric (\*), Benard Nicolas (\*), Lan Sun Luk Jean Daniel(\*\*), Chabriat Jean-Pierre (\*\*)*

### **10. Improved Circuit Model Of Photovoltaic Cell For Energy Harvesting Application (accepted)**

17th IEEE Mediterranean Electrotechnical Conference, Beirut, Lebanon, April 13-16, 2014, Volume , Issue , April 13-16, 2014, Beirut, Lebanon 2014, pp.

*Rahma Aloulou, P-O lucas de Peslouan, J. Armand , Hassene Mnif, Frederic Alicalapa, Mourad Loulou*

### **11. Design and performance analysis of a small rectenna array for low wireless energy harvesting**

Radio and Antenna Days of the Indian Ocean (RADIO 2014), Volume , Issue , 7-10 April 2014, pp.

*J. Rivière, A. Douyère and J.-D. Lan Sun Luk*

### **12. Lifetime optimization of wireless sensor network by a better nodes positioning and energy distribution**

Radio and Antenna Days of the Indian Ocean (RADIO 2014), Volume , Issue , 7-10 April 2014, pp.

*Jean Lebreton and Nour Murad*

### **13. Clustering and solar radiance prediction**

European Conference on Data Analysis, ECDA 14, Bremen, 2-4 Jul., Volume , Issue , July 2014, pp.

*Ralambondrainy Henri \*; Lechevallier Yves \*\*; Lan-Sun-Luk Jean-Daniel; Chabriat Jean-Pierre (\*LIM, Université de La Réunion,\*\* INRIA, Paris-Rocquencourt)*

### **14. Impact of the coupling effect and the DC-combining configuration on a compact rectenna array**

Journal of physics - Conference series: Material Science and Engineering, Volume 67, Issue 012009, 7-10 avril 2014, pp.1-4

*J. Riviere, A. Douyère and J.-D. Lan Sun Luk*

### **15. Lifetime Optimization of Wireless Sensor Network by a Better Nodes Positioning and Energy Distribution**

2nd Radio and Antenna Days of the Indian Ocean, Volume , Issue , 7-10 April 2014, pp.p. 19

*Jean Lebreton and Nour Murad*

### **16. Energy-efficient clustering algorithm based on energy variance for Wireless Sensor Networks**

IEEE ComSoc Technical co-sponsorship SaCoNeT'2013, 4th Edition, Volume , Issue , september 2013, pp.

*Randriatsiferana R-S-A\*, Lorion R\*, Alicalapa F\* and Harivelo F\*\**

*\*LE2P, University of La Reunion*

*\*\* LIM, University of La Reunion*

### **17. Radiation budget in the regional climate model RegCM4: simulation results from two different radiative schemes over the South-Western Indian Ocean**

EGU General Assembly, Vienna, Austria, Volume , Issue , 2013, pp.

*Li Peng\*, Morel Beatrice\*, Bessafi Miloud\*, Solmon Fabien\*\* and Chiacchio Marc\*\**

*\* LE2P, University of La Reunion*

*\*\* ICTP, Italia*

### **18. A New Concept of Regenerative Fuel Cell**

Actes : FDFC 2013, Volume , Issue , april 2013, pp.

*Tan C-C\*, Kadjo J-J A\*, Deseure J\*\* and Chabriat J-P\**

*\* LE2P, University of La Reunion*

*\*\* LEPMI, UMR CNRS 5279, France*

- 19. A clustering algorithm based on energy variance and coverage density in centralized hierarchical Wireless Sensor Networks (accepted for publication at the IEEE AFRICON 2013 conference sept. 2013)**  
 IEEE AFRICON 11th edition, Volume , Issue , sept 2013 2013, pp.  
*Randriatsiferana R-S-A\*, Alicalapa F\*, Lorion R\* and Aquil-Mirza Mohammed\*\**  
 \* LE2P, University of La Reunion  
 \*\* Birla Institute of Technology and Science (BITS), Dep. of Electrical and Electronics Engineering, Pilani, Rajasthan, India
- 20. Influence of the impurities on the sucrose crystal growth on a crystallisation pilot plant**  
 Actes : ISSCT XXVIII, Volume , Issue , June 2013, pp.  
*Latchoumaya D<sup>1</sup>, Poschenrieder S<sup>2</sup>, Damour C<sup>3</sup>, Jeanty P<sup>3</sup>, Shum Cheong Sing A<sup>4</sup> and J-P. Chabriat<sup>3</sup>*  
<sup>1</sup>Sugar Mill of Bois-Rouge, La Reunion - France  
<sup>2</sup>Technische Universität München, Germany  
<sup>3</sup>LE2P, University of La Reunion - France  
<sup>4</sup>LCSNSA, University of La Reunion - France
- 21. Experimental study of rectenna coupling at low power level**  
 Journal of physics - IOP Conference Series: Materials Science and Engineering, Volume 44, Issue ISSN : 1757-8981, September 2013, pp.  
*A. Douyere, F. Alicalapa, S. Riviere and J.-D. Lan Sun Luk*
- 22. Conception et réalisation d'un convertisseur RF/DC dédié à la collecte de faibles niveaux de puissance**  
 Journées Nationales Micro-ondes, JNM 2013, Volume , Issue , Mai 2013, pp.  
*Alexandre Douyère, Samuel Rivière\*, Jérôme Rivière, Frédéric Alicalapa et J.-D Lan Sun Luk*  
 (\*) OSCADI, Réunion
- 23. Caractérisation complète d'une rectenna miniaturisée**  
 Journées Nationales Micro-ondes, JNM 2013, Volume , Issue , Mai 2013, pp.  
*Oualid Makhoulouf\*, Thi Quynh Van Hoang\*, Eric Séguenot\*\*, Alexandre Douyère, Jean-Lou Dubard\*, Jean-Daniel Lan Sun Luk*  
 (\*) LEAT, Université Nice-Sophia Antipolis, (\*\*) Orange Labs, La Turbie
- 24. A Novel Dual-Frequency Rectifier Based on a 180° Hybrid Junction for RF Energy Harvesting**  
 European Conference on Antennas and Propagation, EuCAP 2013, Volume , Issue , April 2013, pp.  
*Hakim Takhedmit (\*), Laurent Cirio (\*), Zied Saddi (\*), Jean Daniel Lan-Sun-Luk , Odile Picon (\*)*  
 (\*), ESYCOM, Université Paris-Est Marne-la- Vallée, France
- 25. Clustering daily solar radiation from Reunion Island using data analysis methods**  
 International Conference on Renewable Energy and Power Quality, ICREPQ 13, Volume , Issue , March 2013, pp.  
*P. Jeanty, M. Delsaut\*, L. Trovalet, H. Ralambondrainy\*, J.D. Lan-Sun-Luk, M. Bessafi, P. Charton\*, J.P Chabriat*  
 (\*) LIM, Université de la Réunion
- 26. Modèle électrique équivalent dédié à l'estimation d'associations série et parallèle de circuits rectennas à 2.45 GHz**  
 Journées Nationales Micro-ondes, JNM 2013, Volume , Issue , Mai 2013, pp.  
*Takhedmit Hakim\*, Cirio Laurent\*, Lan-Sun-Luk Jean Daniel, Picon Odile\**  
 (\*) ESYCOM, Paris
- 27. Rectenna à faible niveau de puissance pour la récupération et la conversion d'énergie électromagnétique à 1.8 et 2.45 GHz**  
 Journées Nationales Micro-ondes, JNM 2013, Volume , Issue , Mai 2013, pp.  
*Saddi Zied\*, Haboubi Walid\*, Takhedmit Hakim\*, Adami Salah-Eddine\*\*, Picon Odile\*, Lan-Sun-Luk Jean-Daniel, Costa François\*\*\*, Allard Bruno\*\*, Vollaire Christian\*\*, Cirio Laurent\**  
 (\*) ESYCOM, Univ. Paris-Est Marne La Vallée, (\*\*) AMPERE, Ecole Centrale de Lyon, (\*\*\*) SATIE, Ecole Normale Supérieure Cachan

## 28. Clustering of solar irradiance

European Conference on Data Analysis, ECDA 13, Volume , Issue , July 2013, pp.

Miloud Bessafi, Francisco de A. T. de Carvalho\*, Philippe \*\*\*, Mathieu Delsaut \*\*\*, Thierry Despeyroux\*\*, Patrick Jeanty, Jean Daniel Lan-Sun-Luk, Yves Lechevallier\*\*, Henri Ralambondrainy\*\*\*, Lionel Trovalet

(\*) CIn/UFPE, Recife-PE, Brésil, (\*\*) INRIA, Paris-Rocquencourt, (\*\*\*) LIM, Université de la Réunion

## 29. Classification des journées de l'île de la Réunion en fonction des radiations solaires

45ème journées de Statistique, SFDS 2013, Volume , Issue , Mai 2013, pp.

Miloud Bessafi, Francisco de A. T. de Carvalho\*, Philippe \*\*\*, Mathieu Delsaut \*\*\*, Thierry Despeyroux\*\*, Patrick Jeanty, Jean Daniel Lan-Sun-Luk, Yves Lechevallier\*\*, Henri Ralambondrainy\*\*\*, Lionel Trovalet

(\*) CIn/UFPE, Recife-PE, Brésil, (\*\*) INRIA, Paris-Rocquencourt, (\*\*\*) LIM, Université de la Réunion

## 30. Network lifetime maximising distributed forwarding strategies in ad hoc wireless sensor networks

Communications, IET, Volume 6, Issue 14, 2012, pp.2138-2148

Panigrahi B.\*, De S.\*, Panda B. S.\* and Lan-Sun-Luk J. D.

(\*) IIT New Dehli

## 31. Forwarding and Routing Stateless Multi-Hop Protocol for Wireless Sensor Networks

ICN 2012, The Eleventh International Conference on Networks, Volume , Issue , 2012, pp.165 to 168

Rivo S. A. Randriatsiferana, Richard Lorion, Frederic Alicalapa, Fanilo Harivelo

## 32. PSO-based charge pump chip area minimization

International Conference on Synthesis, Modeling, Analysis and Simulation Methods and Applications to Circuit Design (SMACD, Spain), Volume 1, Issue 15, 19-21 sept 2012 2012, pp.15-20

Alicalapa Frederic\*, Lan-Sun-Luk Jean Daniel\*, Rahma Aloulou\*\*, Hassene Mnif\*\*\* and Mourad Loulou\*\*\*

\* LE2P, University of La Reunion - France

\*\* LETI-Lab-University of Sfax, TN

\*\*\*National Engineering School of Sfax, University of Sfax, TN

## 33. Forwarding and Routing Stateless Multi-Hop Protocol for Wireless Sensor Networks

ICN 2012 - 11th International Conference on Networks - IARIA, Volume , Issue , February 29 2012, pp.165-168

Randriatsiferana Rivo S.A.\*, Lorion R\*, Alicalapa F\*, Harivelo F\*\*

\* LE2P, University of La Reunion

\*\*LIM, University of La Reunion

## 34. TCP SYN Protection: An Evaluation

ICN 2012 - 11th International Conference on Networks - IARIA, Volume , Issue , March 5 2012, pp.

Anelli P\*, Harivelo F\* and Lorion R\*\*

\* LIM, University of La Reunion

\*\* LE2P, University of La Reunion

## 35. Experimental study of rectenna coupling at low power level

Radio and Antenna Days of the Indian Ocean (RADIO 2012), Volume , Issue , Septembre 2012, pp.

A. Douyere, F. Alicalapa, S. Riviere and J.-D. Lan Sun Luk

## 36. A method for mapping monthly solar irradiation over complex topography areas: Reunion Island's case study

International Conference on Technology Transfer and Renewable Energy, Volume , Issue , 2012, pp.

Miloud Bessafi, Béatrice Morel, Jean-Daniel Lan-Sun-Luk, Jean-Pierre Chabriat, Patrick Jeanty

## 37. An Accurate Linear Electrical Model Applied to a Series and Parallel 2.45 GHz Dual-Diode Rectenna Array

6th European Conference on Antennas and Propagation (EUCAP'12), Volume , Issue , March 2012, pp.

Takhedmit H. \*, Cirio L. \*, Picon O. \*, Lan-Sun-Luk J-D

(\*) ESYCOM, Univ. Paris-Est Marne La Vallée

#### **38. Modelling of symmetric solid oxide cell to operate in steam electrolysis mode**

Actes : FDFC 2011, Volume , Issue , janvier 2011, pp.

*Kadjo J.-J. A.\**, *Deseure J.\*\**, *Labatut L.\*\**, and *Dessemond L.\*\**

\* *LE2P, University of La Reunion*

\*\* *LEPMI, UMR CNRS 5279, France*

#### **39. Network RF energy scavenging for low-power sensors**

8th ICT-Asia Conference - information and communication technology (ICT), Volume , Issue , June 2011, pp.

*Alicalapa F<sup>1</sup>*, *Lorion R<sup>1</sup>*, *Randriatsiferana R.S.A.<sup>1</sup>*, *De S<sup>2</sup>*, *Chatterjee S<sup>2</sup>*, *Ben-Ameur W<sup>3</sup>*, *Saxena N<sup>4</sup>*,

<sup>1</sup> *LE2P University of La Reunion*

<sup>2</sup> *Indian Institute of Delhi*

<sup>3</sup> *Institut Telecom SudParis*

<sup>4</sup> *Sungkyunkwan University*

#### **40. TLM Design of a compact PIFA rectenna**

Electromagnetics in Advanced Applications (ICEAA), Volume , Issue , Septembre 2011, pp.508-511

*Thi Quynh Van Hoang*, *Alexandre Douyère*, *Jean-Lou Dubard*, and *Jean-Daniel Lan Sun Luk*

#### **41. Discrete element simulation: an efficient tool for optimizing powder processes from the sintering stage to the final properties**

Actes : TMS 2010, Volume , Issue , 2010, pp.

*Martin C. L.*, *Liu X.*, *Kadjo A. J.-J.\** and *Bouvard D.*

\* *LE2P, University of La Reunion*

#### **42. A neural model-based auto-tuning PID strategy to improve an industrial sugar crystallization process control**

Actes : FoodSim 2010, Volume , Issue , 2010, pp.

*Grondin-Perez B.*, *Beyou S.*, *Benne M.*, *Kadjo A. J.-J.* and *Chabriat J.-P.*

#### **43. Monitoring and Sensor Fault Detection via Observers for C-Grade Cane Sugar Crystallization**

FoodSim 2010, Volume , Issue , juin 2010, pp.

*Boillereaux L.\*\**, *Damour C.\**, *Benne M.\**, *Grondin-Perez B.\** and *Chabriat J.-P.\**

\* *LE2P, University of La Reunion*

\*\* *GEPEA, CNRS UMR 6144, France*

#### **44. Energy-Efficient Greedy Forwarding Protocol for Wireless Sensor Networks**

Vehicular Technology Conference (VTC 2010-Spring), 2010 IEEE 71st, Volume , Issue , 16-19 May 2010, pp.1 - 5

*Panigrahi, B.* (IIT Delhi); *De, S.* (IIT Delhi); *Panda, B.S.* (IIT Delhi); *Lan Sun Luk, J.-D.* (LE2P - Univ. de La Reunion)

#### **45. Non-linear PID control strategy using NN to improve the control of industrial sucrose crystallization**

Actes : XXIIe congrès de la Société Française de Génie Procédés, Volume , Issue , octobre 2009, pp.

*Grondin-Perez B.*, *Beyou S.*, *Benne M.* and *Chabriat J.-P.* ,

#### **46. Model based soft-sensor for industrial crystallization. On-line mass of crystals and solubility measurement**

Actes : International Conference on Biotechnology and Food Engineering 2009, Volume , Issue , juin 2009, pp.

*Damour C.*, *Benne M.*, *Grondin B.* and *Chabriat J.-P.*

#### **47. Control improvement of a C sugar cane crystallization using an auto tuning PID controller based on linearization of a neural network**

Actes : International Conference on Biotechnology and Food Engineering, Volume , Issue , juin 2009, pp.

*Beyou S.*, *Grondin-Perez B.*, *Benne M.*, *Damour C.* and *Chabriat J.-P.*

#### **48. Soft-sensor for on-line mass of crystals measurement: application to cane sugar crystallization**

Actes : Industrial Simulation Conference 2009, Volume , Issue , juin 2009, pp.

*Damour C.*, *Benne M.*, *Grondin B.* and *Chabriat J.-P.*



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