

PUBLICATIONS

AHCÈNE BOUNCEUR

1 Patents

1. Suidia (e-Health-Platform)
 - Software Repository: SATT (Sociétés d'Accélération du Transfert de Technologies)
 - IDDN certificate: *IDDN.FR.001.020005.000.S.P.2015.000.10000* of 05/01/15.
 - A. Bounceur, E. L'Her et E. Sonnet, Plateforme de télémédecine pour le suivi à distance, par tablettes ou smartphones, des patientes atteintes du diabète gestationnel. **L'application de télémédecine la plus évoluée en France dans le domaine du diabète gestationnel (Congrès de la Société Francophone du Diabète, Bordeaux, Mars 2015).**
 - <https://www.suidia.fr>

2 Scientific Publications

2.1 Reports (HDR, Ph.D., Masters) (4)

- [1] A. Bounceur, **Modèles et Simulation pour le Test de Circuits Mixtes, la Fouille de Données et les Réseaux de Capteurs Sans Fil**, Habilitation à Diriger des Recherches. Laboratoire Lab-STICC, Université de Bretagne Occidentale (UBO), 2014.
- [2] A. Bounceur, **Plateforme CAO pour le test de circuits mixtes**, Thèse de doctorat, INPG, Grenoble, avril 2007.
- [3] A. Bounceur, **Outil de CAO pour la validation des techniques d'auto-test des circuits microélectroniques**, Rapport de DEA, ENSIMAG, INPG, Grenoble, septembre 2003.
- [4] A. Bounceur, **Gestion optimale des silos à céréales de l'entreprise Cevital**, Rapport de fin d'études, Université de Béjaïa, septembre 2002.

2.2 Books (6)

- [1] A. Bounceur, M. Bezoui, R. Euler. *Boundaries and Hulls of Euclidean Graphs: From Theory to Practice*, CRC Press, Taylor & Francis Group Ed., 2018, ISBN : 1138048917.
- [2] Djallel Eddine Boubiche, Faouzi Hidoussi, Ahcène Bounceur. *International conference on Big Data and Advanced Wireless technologies (BDAW'2016)*. ACM International Conference Proceedings Series, Blagoevgrad, Bulgaria, November 10-11, 978-1-4503-4779-2.
- [3] Djallel Eddine Boubiche, Faouzi Hidoussi, Lyamine Guezouli, Ahcène Bounceur, Homero Toral. *International Conference on Internet of things and Cloud Computing (ICC'2016)*. March 2016, Cambridge, United Kingdom. ACM International Conference Proceedings Series, 2016, 978-1-4503-4063-2.
- [4] M. Sevaux, M. Vecchio, and A. Bounceur, editors. *Special issue on Algorithms for Wireless Sensor Networks. Algorithms*. MDPI, 2015. Disponible en ligne.
- [5] A. Bounceur. *Tutoriel Java: Le Monde des Objets*. EDA Publishing Edition (ISBN : 978-2-3550-0004-1), 108 pages, 2007.
- [6] A. Bounceur. *Delphi, le nécessaire pour débiter*. EDA Publishing Edition (ISBN : 978-2-3550-0005-8), 55 pages, 2007.

2.3 Manuals (2)

- [1] A. Bounceur. *CupCarbon User Guide*, 2017.
- [2] A. Bounceur. *RMS CAT Platform, Manuel d'utilisation de la plateforme de simulation de fautes analogiques sous Cadence*, 2007.

2.4 Demo Papers (2)

- [1] Ahcène Bounceur, Olivier Marc, Massinissa Lounis, Julien Soler, Laurent Clavier, Pierre Combeau, Rodolphe Vauzelle, Loic Lagadec, Reinhardt Euler, Madani Bezoui and Pietro Manzoni, CupCarbon-Lab: An IoT Emulator. In the Proceedings of IEEE Consumer Communications & Networking Conference (CCNC 2018), 12-15 January 2018, Las Vegas, USA.
- [2] M. Lounis, K. Mehdi, A. Bounceur. A CupCarbon Tool for Simulating Destructive Insect Movements. 1st IEEE International Conference on Information and Communication Technologies for Disaster Management (ICT-DM'14), Algiers, Algeria, March 24-25, 2014.

2.5 Keynote Speaker (9)

- [1] Ahcène Bounceur, CupCarbon-Lab for the validation of Cybersecurity algorithms including Blockchain technology, In the 2nd International Conference on Computational Intelligence, Security and IoT (ICCISIoT 2019), 13-14 December, 2018, National Institute of Technology Agartala, Tripura, India.
- [2] Ahcène Bounceur, The concept of a Pseudo-Polygon and its Application to IoT, In the 1st International Conference on Artificial Intelligence and its Applications (AIAP'18), 4-5 December, 2018, El-Oued, Algeria.
- [3] Ahcène Bounceur, The concept of a Pseudo-Polygon and its Application to Big Data and IoT, In the 7th International Society for Knowledge Organization (ISKO-Maghreb), 25-26 November, 2018, Bejaia, Algeria (<https://www.youtube.com/watch?v=hIQqLA5psNI>).
- [4] Ahcène Bounceur, A Pseudo-Polygon and Its Application in IoT Networks, In the International Conference on Future Networks and Distributed Systems (ICFNDS), 26-27 June, 2018, Amman, Jordan.
- [5] Ahcène Bounceur, Finding the boundary nodes of a WSN using the D-LPCN algorithm and its simulation under CupCarbon, In the 1st EAI International Conference on Future Internet Technologies and Trends (ICFITT 2017), August 31-September 2, 2017, Surat, India.
- [6] Ahcène Bounceur, From Smart-city and IoT Simulation to Big Data Generation, In the 2nd ACM International Conference on Internet of things and Cloud Computing (ICC 2017), Keynote Speaker, Cambridge city, Churchill College. University of Cambridge, United Kingdom. 22-23 March 2017.
- [7] Ahcène Bounceur, Big-Data: La troisième révolution informatique, La première édition du Congrès Annuel sur les Sciences et Technologies Appliquées (CASTA'16), Keynote Speaker, Boumerdes, Algeria. 18-20 septembre, 2016.
- [8] Ahcène Bounceur, CupCarbon: A New Platform for Designing and Simulating Smart-City and IoT Wireless Sensor Networks, Keynote Speaker, 5ème édition des journées "Big Data Mining and Visualization", Université de Lorraine, 23-24 juin 2016.
- [9] Ahcène Bounceur, CupCarbon: A New Platform for Designing and Simulating Smart-City & IoT Wireless Sensor Networks (SCI-WSN), In the International conference on Intelligent Information Processing, Security and Advanced Communication, IPAC'2015, University Hadj Lakhdar of Batna, Algeria, 23-25 November 2015.

2.6 Invited Talk and Papers (12)

- [1] Ahcène Bounceur, Invited talk, Algorithms for finding the boundary nodes of a WSN and their simulation under CupCarbon, Internal seminar, Manchester Metropolitan University, June 19th, 2019, UK.
- [2] Reinhardt Euler, Ahcène Bounceur, Madani Bezoui, Finding the Boundary Nodes of a Euclidean Graph: Algorithms and Applications, Invited talk, Joint EURO/ALIO International Conference on Applied Combinatorial Optimization, June 25th, 2018, Bologna.
- [3] Ahcène Bounceur, Madani Bezoui, Reinhardt Euler, Loic Lagadec and Mohammad Hammoudeh, Distributed Leader Election in Wireless and IoT Networks, Invited talk, EURO 2018, July 8th, 2018, Valencia.
- [4] Ahcène Bounceur, Distributed Algorithms for Leader Election in Wireless and IoT Networks, Présentation invitée, GT-OSI, Jussieux, Paris, October 20, 2017.
- [5] Ahcène Bounceur, Madani Bezoui, Reinhardt Euler and Marc Sevaux, Finding the Boundary Nodes of a Wireless Sensor Network Without Conditions on the Starting Node, Invited talk, EURO 2016, Poznan.
- [6] Ahcène Bounceur, From Smart-city and IoT Simulation to Big Data Generation, Invited talk, University of Bejaia, July 2016.

- [7] Ahcène Bounceur, Laurent Clavier, Pierre Olivier, Olivier Marc, Plateforme logicielle CupCarbon de conception et de simulation des réseaux de capteurs sans fil de nouvelle génération dédiée aux smart-cities, Séminaire IRCICA autour des réseaux de capteurs, 6 novembre 2015, IRCICA, Lille.
- [8] Ahcène Bounceur, Trouver l'Enveloppe Polygone d'un Réseau de Capteurs Sans Fil : Théorie et Pratique, Séminaire, Université Clermont-Ferrand, Juillet 2015.
- [9] Ahcène Bounceur, Trouver l'Enveloppe Polygone d'un Réseau de Capteurs Sans Fil : Théorie et Pratique, séminaire, GDR-RO, CEA, Paris, May 2015.
- [10] Ahcène Bounceur, Reinhardt Euler, Ali Benzerbadj, Farid Lalem, Massinissa Saoudi, Tahar Kechadi, Marc Sevaux, Finding a Polygon Hull in Wireless Sensor Networks, Invited talk, EURO 2015, Glasgow.
- [11] S. Mir, H.-G. Stratigopoulos, M. Dubois, and A. Bounceur, Evaluation of parametric test metrics for mixed-signal/RF DFT solutions using statistical techniques, Catrene European Nanoelectronics Design Technology Conference, Grenoble, France, June 2011.
- [12] Salvador Mir, Haralampos-G. D. Stratigopoulos, Ahcène Bounceur, Density estimation for analog/RF test problem solving. Invited Talk, IEEE VLSI Test Symposium (VTS'10).

2.7 Book Chapters (4)

- [1] Ahcène Bounceur, Madani Bezoui, Umer Noreen, Reinhardt Euler, Farid Lalem, Mohammad Hammoudeh, and Sohail Jabbar, LOGO: A New Distributed Leader Election Algorithm in WSNs with Low Energy Consumption, Chapter in the Future Internet Technologies and Trends, August 31-September 2, 2017, Surat, India.
- [2] M. Bentobache, A. Bounceur, R. Euler, Y. Kieffer, S. Mir, Minimizing test frequencies for linear analog circuits: new models and efficient solution methods. Chapter in VLSI-SoC, Springer, 2015.
- [3] A. Bounceur, S. Mir, L. Rolíndez and E. Simeu. CAT platform for analogue and mixed-signal test evaluation and optimization. Chapter in IFIP International Federation for Information Processing, Volume 249, VLSI-SoC: Research trends in VLSI and Systems on Chip. De Micheli, G., Mir, S., Reis, R. (Eds.), (Boston: Springer), 2007, pp. 281-300.
- [4] A. Dhayni, S. Mir, L. Rufer and A. Bounceur. On-chip Pseudorandom Testing for Linear and Non-linear MEMS. Chapter in VLSI-SoC : From Systems to Silicon. R. Reis, A. Osseiran, H.-J. Pfeleiderer (Eds.), Springer, Vol. 240, 2007, pp. 245-266.

2.8 International Journals (29)

- [1] Nora Saadi, Ahcène Bounceur, Reinhardt Euler, Massinissa Lounis, Madani Bezoui, Moussa Kerkar, Bernard Pottierd, Maximum Lifetime Target Coverage in Wireless Sensor Networks, Journal of Wireless Personal Communications.
- [2] Nabil Kadjouh, Ahcène Bounceur, Madani Bezoui, M. Essaid Khanouche, Reinhardt Euler, Mohammad Hammoudeh, Loïc Lagadec, Sohail Jabbar, and Fadi Al-Turjman, A Dominating Tree based Leader Election Algorithm for Smart Cities IoT Infrastructure, International Journal of Mobile Networks and Applications.
- [3] N. Benkebir, M. Le Pouliquen, J-F. Trévien, A. Bounceur, R. Euler, E. Pardiac, M. Sevaux, On a Multi-Trip Vehicle Routing Problem with Time Window integrating European and French Driver Regulations, Journal on Vehicle Routing Algorithms, 2(1), 55-74, November 2019, DOI 10.1007/s41604-019-00016-3.
- [4] Ahcène Bounceur, Madani Bezoui, Mohammad Hammoudeh, Loïc Lagadec, Reinhardt Euler, Finding the Polygon Hull of a Network Without Conditions on the Starting Vertex, In the Transactions on Emerging Telecommunications Technologies, John Wiley & Sons Ltd, 2019, DOI: 10.1002/ett.3696.
- [5] Marco Di Renzo, Merouane Debbah, Dinh-Thuy Phan-Huy, Alessio Zappone, Mohamed-Slim Alouini, Chau Yuen, Vincenzo Sciancalepore, George C. Alexandropoulos, Jakob Hoydis, Haris Gacanin, Julien de Rosny, Ahcène Bounceur, Geoffroy Lerosey and Mathias Fink, Smart Radio Environments Empowered by AI Reconfigurable Meta-Surfaces: An Idea Whose Time Has Come, EURASIP Journal on Wireless Communications and Networking, V 2019, 29 August 2019, abs/1903.08925.
- [6] Ahcène Bounceur, Salvador Mir, Reinhardt Euler, Kamel Beznia, Estimation of Analog/RF Parametric Test Metrics Based on a Multivariate Extreme Value Model. In IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), 2019. DOI: 10.1109/TCAD.2019.2907923.
- [7] Abdennacer Khelaifaa, Saber Benharzallah, Laid Kahloul, Reinhardt Euler, Abdelkader Laouid, Ahcène Bounceur, A comparative analysis of adaptive consistency approaches in cloud storage, In Journal of Parallel and Distributed Computingn, Volume 129, July 2019, pp. 36-49, DOI : 10.1016/j.jpdc.2019.03.006.

- [8] Madani Bezoui, Mustapha Moulai, Ahcène Bounceur, An iterative method for solving a bi-objective constrained portfolio optimization problem. *International Journal of Computational Optimization and Applications*. Volume 72, 1, January 2019, 479-498, Springer US. DOI: 10.1007/s10589-018-0052-9.
- [9] S. K. Ghalem, B. Kechar, A. Bounceur, R. Euler, A probabilistic multivariate Copula-based technique for faulty node diagnosis in Wireless Sensor Networks, *Journal of Network and Computer Applications (JNCA)*, Elsevier, 2018.
- [10] Ismail Kertiou, Saber Benharzallah, Laid Kahloul, Mounir Beggas, Reinhardt Euler, Abdelkader Laouid, Ahcène Bounceur, A dynamic skyline technique for a context-aware selection of the best sensors in an IoT architecture, DOI: 10.1016/j.adhoc.2018.08.011, *Ad Hoc Networks Journal*, Elsevier, Volume 81, December 2018, Pages 183-196.
- [11] Ahcène Bounceur, Samia Djemai, Belkacem Brahmi, Mohand Ouamer Bibi, Reinhardt Euler, A Classification Approach for an Accurate Analog/RF BIST Evaluation Based on the Process Parameters, *Journal of Electronic Testing: Theory and Applications (JETTA)*, Springer, 2018, 34(3), 321-335, 10.1007/s10836-018-5730-0.
- [12] A. Benzerbadj, B. Kechar, A. Bounceur, B. Pottier, Surveillance of Sensitive Fenced Areas Using Duty-Cycled Wireless Sensor Networks With Asymmetrical Links, *Journal of Network and Computer Applications (JNCA)*, Elsevier, March, 2018.
- [13] A. Laouid, A. Dahmani, A. Bounceur, R. Euler, F. Lalem, H. R. Hassen, A. Tari, A Self-managing Volatile Key Scheme for Wireless Sensor Networks, *Journal of Ambient Intelligence and Humanized Computing (JAIHC)*, Springer, March, 2018.
- [14] A. Benzerbadj, B. Kechar, A. Bounceur, B. Pottier, Cross-Layer Greedy Position-Based Routing for Multihop Wireless Sensor Networks in a Real Environment, *Ad Hoc Networks Journal*, Elsevier, 4 January 2018, DOI: 10.1016/j.adhoc.2018.01.003.
- [15] M. Lounis A. Bounceur, R. Euler, B. Pottier, Estimation of Energy Consumption through Parallel Computing in Wireless Sensor Networks, *Journal of Ambient Intelligence and Humanized Computing*, Springer, August 2017, DOI: 10.1007/s12652-017-0582-5.
- [16] A. Laouid, A. Dahmani, A. Bounceur, R. Euler, F. Lalem, A. Tari, A Distributed Multi-path Routing Algorithm to Balance Energy Consumption in Wireless Sensor Networks, *Ad Hoc Networks Journal*, Elsevier, Volume 64, 53-64, 21 June 2017, DOI: 10.1016/j.adhoc.2017.06.006.
- [17] Massinissa Saoudi, Farid Lalem, Ahcène Bounceur, Reinhardt Euler, M-Tahar Kechadi, Abdelkader Laouid, Madani Bezoui, Marc Sevaux, D-LPCN: A Distributed Least Polar-angle Connected Node Algorithm for Finding the Boundary of a Wireless Sensor Network, *Ad Hoc Networks Journal*, Elsevier, Volume 56, 1 March 2017, Pages 56-71, DOI: 10.1016/j.adhoc.2016.11.010.
- [18] Farid Lalem, Ahcène Bounceur, Madani Bezoui, Massinissa Saoudi, Reinhardt Euler, Tahar Kechadi and Marc Sevaux. LPCN: Least Polar-angle Connected Node Algorithm to Find a Polygon Hull in a Connected Euclidean Graph, *Journal of Network and Computer Applications (JNCA)*, Elsevier, 2017. DOI: 10.1016/j.jnca.2017.05.005
- [19] Habib Aissaoua, Makhoulf Aliouat, Ahcène Bounceur, Reinhardt Euler. A Distributed Consensus-based Clock Synchronization Protocol for Wireless Sensor Networks, *Journal of Wireless Personal Communications*, Springer, Volume 95, Number 4, 4579-4600, 2017.
- [20] A. Abuarqoub, M. Hammoudeh, B. Adebisi, S. Jabbar, A. Bounceur, H. Al-Bashar, Dynamic Clustering and Management of Mobile Wireless Sensor Networks, *Computer Networks*, Available online 3 February 2017, ISSN 1389-1286, <http://dx.doi.org/10.1016/j.comnet.2017.02.001>.
- [21] Mohammad Hammoudeh, Fayez Al-Fayez, Huw Lloyd, Robert Newman, Bamidele Adebisi, Ahcène Bounceur and Abdelrahman Abuarqoub, A Wireless Sensor Network Border Monitoring System: Deployment Issues and Routing Protocols, *IEEE Sensors*, Vol. 14, No. 8, October 2016.
- [22] O. Aldabbas, A. Abuarqoub, M. Hammoudeh, U. Raza, A. Bounceur. "Unmanned Ground Vehicle for Data Collection in Wireless Sensor Networks: Mobility-aware Sink Selection" *The Open Automation and Control Systems Journal* 8 (1) 2016.
- [23] R. Houari, A. Bounceur, T. Kechadi, K. Tari, R. Euler. Dimensionality Reduction in Data Mining: Copula Approach. *Expert Systems With Applications Journal (ESWA)*, Volume 64, 1 December 2016, Pages 247-260.
- [24] Kamel Beznia, Ahcène Bounceur, Reinhardt Euler, Salvador Mir, A Tool For Analog/RF BIST Evaluation Using Statistical Models of Circuit Parameters, *ACM Transactions on Design Automation of Electronic Systems (TODAES)*, 2015, 20 (2), Article No. 31.
- [25] A. Bounceur, S. Mir, H-G. D. Stratigopoulos, Estimation of Analog Parametric Test Metrics Using Copulas, *IEEE Transactions on CAD of Integrated Circuits and Systems* 30(9): 1400-1410, 2011.

- [26] H-G. D. Stratigopoulos, S. Mir, A. Bounceur, Evaluation of Analog/RF Test Measurements at the Design Stage. *IEEE Transactions on CAD of Integrated Circuits and Systems* 28(4): 582-590, 2009.
- [27] A. Dhayni, S. Mir, L. Rufer, A. Bounceur, E. Simeu, Pseudorandom BIST for test and characterization of linear and nonlinear MEMS. *Microelectronics Journal* 40(7): 1054-1061, 2009.
- [28] A. Bounceur, S. Mir, E. Simeu and L. Rolíndez. Estimation of test metrics for the optimisation of analogue circuit testing. *Journal of Electronic Testing: Theory and Applications (JETTA)*, Springer Science+Business Media, 23(6), December 2007, pp. 465-663.
- [29] L. Rolíndez, S. Mir, A. Bounceur and J.-L. Carbonéro. A BIST Scheme for SNDR Testing of Sigma Delta ADCs Using Sine-Wave Fitting. *Journal of Electronic Testing: Theory and Applications*, Springer Science+Business Media, 22(4-6), 2006, pp. 325-335.

2.9 National Journals (1)

- [1] S. Gaulier, E. Sonnet, P. Thuillier, G. Crouzeix, A. Bounceur, V. Kerlan, Évaluation d'un programme de suivi de patientes avec un diabète gestationnel par télé-médecine : expérience brestoise, *Journal de Médecine des maladies Métaboliques*, Octobre 2017, Vol. 11, N°6.

2.10 International Conferences (83)

- [1] Congduc Pham, Ahcène Bounceur, Laurent Clavier, Umber Noreen and Muhammad Ehsan, Investigating and Experimenting Interference Mitigation by Capture Effect in LoRa Networks, In the 3rd International Conference on Future Networks and Distributed Systems (ICFNDS), 01-02 July, 2019, Paris, France. (accepted)
- [2] Mohammad Hammoudeh, Ibrahim Ghafir, Ahcène Bounceur and Thomas Rawlinson, Continuous Monitoring in Mission-Critical Applications Using the Internet of Things and Blockchain, In the 3rd International Conference on Future Networks and Distributed Systems (ICFNDS), 01-02 July, 2019, Paris, France. (accepted)
- [3] Muath Alshaikh, Lamri Laouamer, Abdelkader Laouid, Ahcène Bounceur and Mohammad Hammoudeh, Robust and Imperceptible Medical Image Watermarking Based on Dijkstra Algorithm, In the 3rd International Conference on Future Networks and Distributed Systems (ICFNDS), 01-02 July, 2019, Paris, France. (accepted)
- [4] Mohammed Amine Yagoub, Abdelkader Laouid and Ahcène Bounceur, An Intelligent Cloud Data Protection Technique Based on Multi Agent System Using Advanced Cryptographic Algorithms, In the 3rd International Conference on Future Networks and Distributed Systems (ICFNDS), 01-02 July, 2019, Paris, France. (accepted)
- [5] Nabil Kadjouh, Ahcène Bounceur, Tari Abdelkamel, Reinhardt Euler, Loic Lagadec and Abdelkader Laouid, Modelling Batteries With CupCarbon Simulator Under Weather Variations, In the 3rd International Conference on Future Networks and Distributed Systems (ICFNDS), 01-02 July, 2019, Paris, France. (accepted)
- [6] Nabil Kadjouh, Ahcène Bounceur, Tari Abdelkamel, Loic Lagadec, Reinhardt Euler and Madani Bezoui, A New Leader Election Algorithm Based on the WBS Algorithm Dedicated to Smart-cities, In the 3rd International Conference on Future Networks and Distributed Systems (ICFNDS), 01-02 July, 2019, Paris, France. (accepted)
- [7] Ahcène Bounceur, Madani Bezoui, Loic Lagadec, Reinhardt Euler, Abdelkader Laouid, Mahamadou Traore and Mounir Lallali, Detecting Gaps and Voids in WSNs and IoT Networks: the Minimum x-Coordinate based Method, In the 2nd International Conference on Future Networks and Distributed Systems (ICFNDS), 26-27 June, 2018, Amman, Jordan.
→ **BEST PAPER**
- [8] Madani Bezoui, Ahcène Bounceur, Loic Lagadec, Reinhardt Euler, Frank Singhoff and Mohammad Hammoudeh, Detecting Gaps and Voids in WSNs and IoT Networks: the Angle-based Method, In the 2nd International Conference on Future Networks and Distributed Systems (ICFNDS), 26-27 June, 2018, Amman, Jordan.
- [9] Laouid Abdelkader, Muath Alshaikh, Farid Lalem, Ahcène Bounceur, Reinhardt Euler, Madani Bezoui and Habib Aissaoua, A Distributed Security Protocol Designed for the Context of Internet of Things, In the 2nd International Conference on Future Networks and Distributed Systems (ICFNDS), 26-27 June, 2018, Amman, Jordan.

- [10] Habib Aissaoua, Ahcène Bounceur, Makhlof Aliouat, Reinhardt Euler, Abdelkader Laouid and Farid Lalem, A Lightweight Only Receiver Clock Synchronization Technique for Wireless Sensor Networks, In the 2nd International Conference on Future Networks and Distributed Systems (ICFNDS), 26-27 June, 2018, Amman, Jordan.
- [11] Mohamed-Lamine Yagoub, Okba Kazar, Abdelkader Laouid, Ahcène Bounceur and Reinhardt Euler, An Adaptive and Efficient Fully Homomorphic Encryption Technique, In the 2nd International Conference on Future Networks and Distributed Systems (ICFNDS), 26-27 June, 2018, Amman, Jordan.
- [12] Ahcène Bounceur, Madani Bezoui, Loic Lagadec, Reinhardt Euler, Abdelkader Laouid and Mohammad Hammoudeh. DoTRo: A New Dominating Tree Routing Algorithm for Efficient and Fault-Tolerant Leader Election in WSNs and IoT Networks, The 4th International Conference on Mobile, Secure and Programmable Networking (MSPN 2018), 18-20 June 2018, Paris, France.
- [13] Umber Noreen, Laurent Clavier, Ahcène Bounceur, LoRa-like CSS-based PHY Layer Capture Effect and Serial Interference Cancellation, In the 24th European Wireless (EW'2018), 2-4 May 2018, Catania, Italy.
- [14] Ahcène Bounceur, Laurent Clavier, Pierre Combeau, Olivier Marc, Rodolphe Vauzelle, Arnaud Masserann, Julien Soler, Reinhardt Euler, Taha Alwajeih, Vyas Devendra, Umber Noreen, Emilie Soret, Massinissa Lounis. CupCarbon: A New Platform for the Design, Simulation and 2D/3D Visualization of Radio Propagation and Interferences in IoT Networks. In the Proceedings of IEEE Consumer Communications & Networking Conference (CCNC 2018), 12-15 January 2018, Las Vegas, USA.
- [15] Ahcène Bounceur, Madani Bezoui, Massinissa Lounis, Reinhardt Euler, Ciprian Teodorov, A New Dominating Tree Routing Algorithm for Efficient Leader Election in IoT Networks. In the Proceedings of IEEE Consumer Communications & Networking Conference (CCNC 2018), 12-15 January 2018, Las Vegas, USA.
- [16] Ahcène Bounceur, Madani Bezoui, Reinhardt Euler, Farid Lalem, A Wait-Before-Starting Algorithm for Fast, Fault-Tolerant and Low Energy Leader Election in WSNs Dedicated to Smart-Cities and IoT, In the IEEE Sensors 2017 Conference, Glasgow, Scotland, UK, October 29-November 1, 2017.
- [17] Madani Bezoui, Ahcène Bounceur, Reinhardt Euler, Farid Lalem, Laouid Abdelkader, A New Algorithm for Finding a Dominating Set in Wireless Sensor and IoT Networks Based on the Wait-Before-Starting Concept, In the IEEE Sensors 2017 Conference, Glasgow, Scotland, UK, October 29-November 1, 2017.
- [18] Ahcène Bounceur, Madani Bezoui, Reinhardt Euler, Farid Lalem, Massinissa Lounis, A Revised BROGO Algorithm for Leader Election in Wireless Sensor and IoT Networks, In the IEEE Sensors 2017 Conference, Glasgow, Scotland, UK, October 29-November 1, 2017.
- [19] Madani Bezoui, Ahcène Bounceur, Reinhardt Euler, Mustapha Moulai, A New Distributed Algorithm for Finding Dominating Sets in IoT Networks under Multiple Criteria, In the 12th International Conference on Multiple Objective Programming and Goal Programming (MOPGP 2017), 30-31 October 2017, Metz, France.
- [20] Madani Bezoui, Ahcène Bounceur, Reinhardt Euler, Mustapha Moulai, A game theory approach to solve linear bi-objective programming problems: application to data collection in WSNs, In the 12th International Conference on Multiple Objective Programming and Goal Programming (MOPGP 2017), 30-31 October 2017, Metz, France.
- [21] Madani Bezoui, Ahcène Bounceur, Reinhardt Euler, Mustapha Moulai, A multi-criteria decision support tool for ranking exploration projects of the Sonatrach oil upstream, In the 12th International Conference on Multiple Objective Programming and Goal Programming (MOPGP 2017), 30-31 October 2017, Metz, France.
- [22] Ahcène Bounceur, Madani Bezoui, Umber Noreen, Reinhardt Euler, Farid Lalem, Mohammad Hammoudeh, and Sohail Jabbar, LOGO: A New Distributed Leader Election Algorithm in WSNs with Low Energy Consumption, In the 1st EAI International Conference on Future Internet Technologies and Trends (ICFITT 2017), August 31-September 2, 2017, Surat, India.
- [23] Ahcène Bounceur, Madani Bezoui, Reinhardt Euler, Nabil Kadjouh and Farid Lalem, BROGO: A New Low Energy Consumption Algorithm for Leader Election in WSNs, **INVITED PAPER** in the 10th IEEE International Conference on the Developments in eSystems Engineering (DeSE 2017), 14-16 June 2017, Paris, France.
- [24] Umber Noreen, Ahcène Bounceur, Laurent Clavier, Modeling Interference for Wireless Sensor Network Simulator, In the 1st International Workshop Smart Technologies (WOSTech'17), July 2017, Cambridge, United Kingdom.
- [25] Umber Noreen, Ahcène Bounceur and Laurent Clavier, A Study of LoRa Low Power and Wide Area Network Technology, In the 3rd IEEE International Conference on Advanced Technologies for Signal and Image Processing (ATSIP'2017), Fez, Morocco, May 22-24, 2017.

- [26] Farid Lalem, Ahcène Bounceur, Reinhardt Euler, Mohammad Hammoudeh, Rahim Kacimi, and Sanaa Kawther Ghalem, Distributed Faulty Sensor Node Detection in Wireless Sensor Networks based on Copula Theory. In the Second ACM International Conference on Internet of Things, Data and Cloud Computing (ICC 2017), March 2017, Cambridge, United Kingdom.
- [27] Sanaa Kawther Ghalem, Bouabdellah Kechar, Ahcène Bounceur, Reinhardt Euler, Mohammad Hammoudeh, Farid Lalem, Copula based approach for measurement validity verification in wireless sensor networks. In the Second ACM International Conference on Internet of Things, Data and Cloud Computing (ICC 2017), March 2017, Cambridge, United Kingdom.
- [28] Taha Alwajeeh, Pierre Combeau, Rodolphe Vauzelle and Ahcène Bounceur, A High-Speed 2.5D Ray-Tracing Propagation Model for Microcellular Systems, Application: Smart Cities, In the 11th IEEE European Conference on Antennas and Propagation (EuCAP 2017), 19-24 March 2017, Paris, France.
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3 Software (3)

3.1 Free

CupCarbon: Smart City and Internet of Things Wireless Sensor Network simulator.
→ <http://www.cupcarbon.com>.

3.2 With licence

Suidia: Application Android de télémédecine pour le suivi à distance, par tablettes ou smartphones, des patientes atteintes du diabète gestationnel (<http://www.suidia.fr>).

CATPlatform: Une plateforme formée d'un ensemble d'outils de CAO pour la simulation de fautes et l'évaluation des techniques de test des circuits analogiques, mixtes et RF sous Cadence. Cette plateforme a été installée à STMicroelectronics de Grenoble et à l'Université de Cantabrie en Espagne sous forme d'un NDA (*Non Disclosure Agreement*).