



## Productions scientifiques des enseignants de l'IUT-FV

### A-Publications scientifiques dans des revues

#### Année 2019

#### Département de Génie Electrique

1. L. L. Sonfack, G. Kenne, A. M. Fombu. An improved adaptive RBF neuro-sliding mode control strategy: Application to a static synchronous series compensator controlled systems, Wiley publication, International Transactions on Electrical Energy Systems, Vol. 29, Issue 5, 23 pages, May 2019, doi.org/10.1002/2050-7038.2835.
2. J.d.D. Nguimfack-Ndongmo, A. M. Fombu, L.L. Sonfack, R. Kuate Fochie, G. Kenné, F. Lamnabhi-Lagarrigue. Challenges of mastering the energy sector and sustainable solutions for development in Africa, Special issue, Health and Energy at MADEV 2017, ARIMA, Vol. 30, pp.71-86, 2019.
3. E. M. Nfah, J.M. Ngundam, G. Kenne. Photovoltaic Hybrid Systems for remote villages, Special issue, Health and Energy at MADEV 2017, ARIMA, Vol. 30, 2019.
4. Armel Simo FOTSO, Godpromesse KENNE and Rostand Marc DOUANLA. A simple flexible and robust control strategy for wind energy conversion systems connected to a utility grid, Journal of Control Science and Engineering, Hindawi publication, Volume 2019, Article ID 5032694, 23 pages, <https://doi.org/10.1155/2019/5032694>.
5. Vitrice Ruben Folifack Signing, Jacques Kengne, Justin Roger Mboupda Pone - Antimonotonicity, chaos, quasi-periodicity and coexistence of hidden attractors in a new simple 4-D chaotic system with hyperbolic cosine nonlinearity Chaos, Solitons & Fractals, – Elsevier. 2019, Vol. 118, No pp. 187-198, <https://doi.org/10.1016/j.chaos.2018.10.018>
6. Justin Roger Mboupda Pone, Sifeu Takougang Kingni, Guy Richard Kol& Viet-Thanh Pham (2019) Hopf bifurcation, antimonotonicity and amplitude controls in the chaotic Toda jerk oscillator: analysis, circuit realization and combination synchronization in its fractional-order form, Automatika, Vol. 60 No 2, pp 149-161, <https://doi.org/10.1080/00051144.2019.1600109>
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8. Mboupda Pone Justin Roger, Kamdoum Tamba Victor, Kom Guillaume Honoré, Alain Tiedeu, Matin Kom. Numerical, electronic simulations and experimental analysis of a no-equilibrium point

- chaotic circuit with offset boosting and partial amplitude control. *SN Applied Sciences*. Springer, 2019, Vol. 1, No 8, pp. 922. <https://doi.org/10.1007/s42452-019-0956-8>
9. Guillaume Honoré Kom, Wouantsa Tindo, B., Justin Roger Mboupda Pone and Alain Bertin Tiedeu. Automated Exudates Detection in Retinal Fundus Image Using Morphological Operator and Entropy Maximization Thresholding. *Journal of Biomedical Science and Engineering*, 2019, Vol. 12, No 3, pp. 212-224. <https://doi.org/10.4236/jbise.2019.123015>
  10. Karthikeyan Rajagopal, Justin Roger Mboupda Pone, Sifeu Takougang Kingni, Sundaram Arun and Anitha Karthikeyan, Analysis and electronic implementation of an absolute memristor autonomous Van der Pol-Duffing circuit, 2019, *The European Physical Journal, Special Topics*, Springer, <https://doi.org/10.1140/epjst/e2019-900043-4>.
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  13. Karthikeyan Rajagopal, Sifeu Takougang Kingni, Guillaume Honoré KOM, Viet-Thanh Pham, Anitha Karthikeyan and Sajad Jafari. “Self-excited and hidden attractors in a simple chaotic jerk system and in its time delayed form: Analysis, electronic implementation and synchronization”. *Journal of the Korean Physical Society*. Springer. Accepted on 08 August 2019. To be publish. Impact Factor: 0.630.
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  20. Bayani, A., Rajagopal, K., Khalaf, A. J. M., Jafari, S., Leutcho, G. D., & Kengne, J. (2019). Dynamical analysis of a new multistable chaotic system with hidden attractor: Antimonotonicity, coexisting multiple attractors, and offset boosting. *Physics Letters A*, 383(13), 1450-1456.

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### **Département de Génie Informatique**

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27. Kele Mbbe Ripaul Carlos, Nkenlifack Marcellin Julius and Kamla Vivien Corneille. Multi-Agent Decision-Making Model for the Construction of Schools. *International Journal of Computer Applications* 178(40):4-13, August 2019, E-ISSN : 0975 – 8887, DOI: 10.5120/ijca2019919281, Digital Library URI: <http://www.ijcaonline.org/archives/volume178/number40/30799-2019919281>, ISBN : 973-93-80900-35-2.
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## Département de Génie des Télécommunications et Réseaux

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<https://doi.org/10.1007/s11082-018-1721-8>
32. Z. I. Djoufack, E. Tala-Tebue, J-P Nguenang, Quantum breathers and intrinsic localized excitation associated with the modulational instability in 1D Bose–Hubbard chain, *Commun Nonlinear SciNumerSimulat* 69 (2019) 134–147.
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35. Takougang Tchinda S. F., Mpame G., Nzeukou Takougang A.C., Kamdoum Tamba V. 2019. Dynamic analysis of a snap oscillator based on a unique diode nonlinearity effect, offset boosting control and sliding mode control design for global chaos synchronization” *Journal of Control, Automation and Electrical Systems*. <https://doi.org/10.1007/s40313-019-00518-2>.
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38. ST Kingni, K Rajagopal, V Kamdoum Tamba, C Ainamon, JBC Orou Analysis and FPGA implementation of an autonomous Josephson junction snap oscillator *The European Physical Journal B* 92, 1-8
39. C Ainamon, ST Kingni, V Kamdoum Tamba, JBC Orou, P Woafu Dynamics, circuitry implementation and control of an autonomous Helmholtz jerk oscillator *Journal of Control, Automation and Electrical Systems* 30, 501-511
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### **Département de Génie Mécanique et Productique**

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### **Département de Technique de Communication, Gestion comptable et Financière**

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### **Département des Enseignements Généraux et Scientifiques**

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### **Département de Génie Thermique, Energie et Environnement**

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## **B-Participations aux congrès, colloques et conférences scientifiques.**

### **Année 2019**

#### **Département de Génie Electrique**

1. G. Kenné, F. A. Tchouani Njomo, R. M. Douanla, L. L. Sonfack, F. Lamnabhi-Lagarrigue. Contrôleurs robustes des systèmes hybrides de production d'énergie électrique, Mathématiques Appliquées à des questions de Développement (MADEV2019), Session « Théorie du contrôle appliquée aux problèmes liés à l'énergie », 25-27 Novembre 2019, Dakar, Sénégal.

#### **Département de Génie Informatique**

2. Rodrigue Konan Tchinda and Clémentin Tayou Djamegni. Enhancing Reasoning with the Extension Rule in CDCL SAT Solvers. Conf »rence de Recherche en Informatique (CRI), Université de Yaoundé I, 2019.
3. NKENLIFACK Marcellin, «l'Economie Numérique et les Besoins en Compétences», 1rst Enterprise, Research and Development Forum (EREDEF-2020), 24 – 28 nov 2020, University of Dschang-Cameroon, subject "Artificial Intelligence, Digital Economy and African Transformation".<https://cmi2019.univ-dschang.org/>.

#### **Département de Génie Thermique, Energie et Environnement**

4. René Tchinda, Brigitte Astrid Medjo Nouadje, Elodie Kelly 'Modélisation et simulation d'un système hybride PV/Diesel : cas de la ville de N'djamena', 4èmes journées scientifiques du CAMES, Ouidah, Bénin (2019)
5. MEDJO NOUADJE Brigitte Astrid, Production de biocarburants à partir de l'amande de CANARIUM SCHWEINFURTHII, présentation orale, Quatrième Edition des Journées Scientifiques du CAMES (JSDC-4) Ouidah, Bénin, 02-05 Décembre 2019.

#### **Département de Génie Civil**

6. SONFACK Brice R., Tropical Atlantic Climate and COstal VAriability TACCOVAR, University of Abomey Calavi, Cotonou, Benin, November 2019.

#### **Département de Génie des Télécommunications et Réseaux**

7. Big Data Analysis: Enjeux et applications pour le développement, Colloque de Mathématiques et Informatique (CMI-2019), Faculté des Sciences, Université de Dschang, 8 – 13 avril 2019.

### **Année 2020**

#### **Département de Génie Informatique**

8. Rodrigue Konan Tchinda and Clémentin Tayou Djamegni. Parallel Hybridization for SAT: An efficient Combination of Search Space Splitting and Portfolio. CARI'2020. <https://www.cari-info.org>.
9. Sévérine Fetgo Betmbe and Clémentin Tayou Djamegni. Horizontally Elastic Edge-Finder For Cumulative Resource Constraint Revisited. CARI'20. <https://www.cari-info.org>.

10. Edith Belise Kenmogne and Clémentin Tayou Djamegni. An Efficient Algorithm to Discover Intra-Periodic Frequent Sequences. CARI'2020. <https://www.cari-info.org>.
11. Clémentin Tayou Djamegni, Laurent Cabrel Tabueu Fotso and Edith Belise Kenmogne. Un nouvel algorithme d'extraction des motifs graduels appelé Sgrite. CARI'2020. <https://www.cari-info.org>.
12. Mathurin Soh, Baudouin Nguimeya Tsofack and Clémentin Tayou Djamegni. Approche Heuristique Multi Colonie Des Fourmis Pour La Résolution du Problème de Voyageur de Commerce. CARI'2020. <https://www.cari-info.org>.
13. Milliam Maxime Zekeng Ndadji, Maurice Tchoupé Tchendji, Clémentin Tayou Djamégni, Didier Parigot: A Grammatical Model for the Specification of Administrative Workflow Using Scenario as Modelling Unit. ICAI 2020: 131-145
14. Milliam Maxime Zekeng Ndadji, Maurice Tchoupé Tchendji, Clémentin Tayou Djamégni, Didier Parigot: A Language for the Specification of Administrative Workflow Processes with Emphasis on Actors' Views. ICCSA (6) 2020: 231-245
15. NKENLIFACK Marcellin, «TECHNOLOGIES NUMERIQUES ET DEVELOPPEMENT DE L'AGRO-INDUSTRIE», 1st Colloquium of Mathematics and Computer Science (CMC-2019), 08 – 12 April 2019, University of Dschang, Dschang, Cameroon, Subject : “Internet of Things, Big Data Analysis and Development”.<https://fered2020.univ-dschang.org/>
16. NKENLIFACK Marcellin, «L'Intelligence Artificielle : Concepts, Enjeux et Défis», Colloque national organisé par le Centre d'Etudes et de Recherche en Droit et Développement de la Faculté des Sciences Juridiques de l'Université de Dschang, Thème: « l'Intelligence Artificielle », 18 décembre 2020, Université de Dschang-Cameroun.

### **Département de Technique de Commercialisation, Gestion Comptable et Financière**

17. Gouvernance fiscale dans les collectivités territoriales décentralisées au Cameroun, Colloque international sur le thème : regard croisé sur le processus de décentralisation en Afrique, du 28 au 30 Octobre 2020, FSEG, Dschang.

### **Année 2021**

### **Département de Génie Thermique, Energie et Environnement**

18. Pascaline TIAM KAPEN. Valorisation énergétique de la biomasse: Production et caractérisation d'une énergie verte pour un développement durable au Cameroun, Présentation orale, Cinquième Edition des Journées Scientifiques du CAMES (JSDC-5) Dakar, Sénégal, 06-09 Décembre 2021.
19. MEDJO NOUADJE Brigitte Astrid, Etat de l'art des techniques de conservation des denrées alimentaires au Cameroun, présentation orale, Cinquième Edition des Journées Scientifiques du CAMES (JSDC-5) Dakar, Sénégal, 06-09 Décembre 2021.
20. René Tchinda. L'Energie dans la CEEAC: Enjeux, défis et Perspectives', 5e édition des Journées Scientifiques du CAMES, 6 au 9 décembre 2021, CESAG, Dakar, au Sénégal.

### **Année 2022**

### **Département de Génie Informatique**

21. Miguel Landry Foko Sindjoug, Mthulisi Velepini, Pascale Minet. “Combining Learners to Predict Link Quality in Wireless IoT Networks”, The 21st IEEE Mediterranean Electrotechnical Conference (MELECON2022), Accepted for presentation in June 2022.

22. S. I. CHE, J-P. LIENOU TCHAWÉ, G. KENNÉ, M. G. TENENG. Comparative Analysis Between Long Short-Term Memory and Transformer Architecture on the Translation of African Languages, 1st International Conference on Engineering Science and Development: Artificial Intelligence and Sustainable Development (ICESD2022), Bandjoun (Cameroon), IUT-FV, March 16th, 17th and 18th 2022.
23. F. Achille DJONTU TAJOUO, Thierry NOULAMO, Andre CHEUKEM. TOWARDS A GENERIC APPROACH TO PRODUCING ADOMAIN ONTOLOGY, 1st International Conference on Engineering Science and Development: Artificial Intelligence and Sustainable Development (ICESD2022), Bandjoun (Cameroon), IUT-FV, March 16th, 17th and 18th 2022.

### **Département de Génie Electrique**

24. J. D. NGUIMFACK-NDONGMO, K. K. ZANA, R. F. KUATE, G. KENNÉ. Development of a Simplified Programming Kit for Embedded Systems, 1st International Conference on Engineering Science and Development: Artificial Intelligence and Sustainable Development (ICESD2022), Bandjoun (Cameroon), IUT-FV, March 16th, 17th and 18th 2022.
25. M. NJAMEN, R. F. KUATE, L. L. SONFACK, G. KENNÉ. Control of the Voltage Source Inverter-Fed Induction Motors using Differential Flatness Theory, 1st International Conference on Engineering Science and Development: Artificial Intelligence and Sustainable Development (ICESD2022), Bandjoun (Cameroon), IUT-FV, March 16th, 17th and 18th 2022.
26. D. B. TCHOUMTCHA, C. T. SANJONG, R. M. DOUANLA, G. KENNÉ. Synergetic Control for Stand-Alone Permanent Magnet Synchronous Generator Driven by Wind Turbine, 1st International Conference on Engineering Science and Development: Artificial Intelligence and Sustainable Development (ICESD2022), Bandjoun (Cameroon), IUT-FV, March 16th, 17th and 18th 2022.
27. T. MBENDE, M. PESDJOCK, G. KENNÉ. PI Control of a Photovoltaic-Hydroelectric Hybrid Systems, 1st International Conference on Engineering Science and Development: Artificial Intelligence and Sustainable Development (ICESD2022), Bandjoun (Cameroon), IUT-FV, March 16th, 17th and 18th 2022.

### **Département des Enseignements Généraux et Scientifiques**

28. J. B. Fankam Fankam, G. W. Ejuh, J.M.B. Ndjaka, Theoretical investigation of the molecular structure, vibrational spectra, thermodynamic and nonlinear optical properties of 4, 5-dibromo-2, 7-dinitro-fluorescein: The 34th Annual Workshop on Recent Developments in Electronic Structure Theory, Columbia University, U.S.A. from May 31-June 3, 2022.
29. C. Fonkem, G. W. Ejuh, J. M. B. Ndjaka, Theoretical study of the enhancement of physico-chemical, nonlinear and optoelectronic properties of the 2-cyano-3- [4 (diphenylamino) phenyl] acrylic acid for dye-sensitized solar cells. First International Conference on Engineering Science and Development: Artificial Intelligence and sustainable Development, IUT – FV, Bandjoun, University of Dschang, Cameroon from 16<sup>th</sup> to 18<sup>th</sup> March, 2022.