

Production Scientifique ECAM-EPMI 2024

I. ARTICLES DE REVUES INTERNATIONALES PUBLICATIONS LR2E en 2024

16 articles : 13 dans des revues + 3 chapitres

- 1) **Asfaw N. T., Absi R., Ba L., EL Abbassi I.**, Assessment of the thermal and mechanical properties of bio-based composite materials for thermal insulation: A review, *Journal of Building Engineering*, Volume 97, 15 November 2024, 110605 <https://doi.org/10.1016/j.jobbe.2024.110605>
- 2) Attaf, Y., Lazri, M., **Labadi, K.**, Oualouche F., **Absi R.** (2024) "Enhancement of ANN performance for remote sensing rainfall estimate in northern Algeria using ensemble learning methods". *J Earth System Science* 133, 92 (2024). <https://doi.org/10.1007/s12040-024-02303-5>
- 3) **M. S. Abou Chahine**, M Arnaout, **F Tangour**, M Youssef Abu Chahine (2024) Improvements of the Bandwidth and Radiation Characteristics of a 5G Mobile Communications Microstrip Antenna with a Novel Wedge Shaped Substrate Design, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, ISSN: 2278-3075 (Online), Volume-13 Issue-8, July 2024.
- 4) **Saab, J., Absi, R.**, (2024) Characterization of isoclinic, transversally geodezic and grassmanizable webs, *Axioms*, 2024, 13(6), 386.
- 5) Dalla Via, M., **Absi, R.**, (2024) Reinvestigating the Kinetic Model for the Suspended Sediment Concentration in an Open Channel Flow, *Mathematics*, 2024, 12(6), 794. <https://doi.org/10.3390/math12060794>
- 6) Ikhlef L., **Labadi K.**, (2024) Kernel Estimation Analysis of the Finite Source "M/G/1" Queue with Retrial and Vacation, *International Journal of Mathematics in Operational Research*, Accepted for publication
- 7) Ibrahim O. A., Goshime D.W., Gebrekirtos S. T., **Absi R.** (2024) Panacea to the catastrophe through mapping in anticipation of mitigating the flood magnitude along Wabi Shebele River Basin of Somalia, *Natural Hazards Research*, Elsevier, Volume 4, Issue 2, , June 2024, Pages 336-346 <https://doi.org/10.1016/j.nhres.2023.11.001>
- 8) Jain P., **Absi R.**, Hossian S., Nishad C. S. (2024) Influence of the Suspended Sediment Concentration on the Calculation of the Vertical Distribution of Streamwise Velocity, *Journal of Hydrologic Engineering*, ASCE, American Society of Civil Engineers, 2024, 29(5), 06024002-1 <https://doi.org/10.1061/JHYEFF.HEENG-6228>
- 9) Meddeber W., Aour, B.; **Labadi K.** (2024) "Smart Wheelchair Localization and Navigation Based on Multi-Sensor Data Fusion Using Hybrid-Filter Method (HF)". *Revue d'Intelligence Artificielle*, 2024, Vol 38, Issue 2, pp.387-396, DOI: <https://doi.org/10.18280/ria.380202>
- 10) Gong, L., Du, H., **Absi, R.**, Fu, H. (2024) Study on the microstructure and properties of additively manufactured NiTi coating, *Materials Today Communications*, 2024, 40, 110170. <https://doi.org/10.1016/j.mtcomm.2024.110170>
- 11) Gong, L., Du, H., **Absi, R.**, Huang, L. Fu, H. (2024) Cu-bearing HHCCI interface combined with first principles calculation and corrosive wear resistance, *Intermetallics*, Volume 175, December 2024, 108507. <https://doi.org/10.1016/j.intermet.2024.108507>

- 12) **Ali-Pacha H.**, Hadj Brahim A., Ali Pacha A., Gutub A. (2024) Data reorganization for image encryption: presentation in the data of hare, *Journal of Cyber Security Technology*, Taylor & Francis, Available online 03 Oct 2024 <https://doi.org/10.1080/23742917.2024.2406573>
- 13) Özer Ö, **Ali-Pacha H.**, Ali-Pacha A., Hadj-Said N. (2024) A New Useful Efficient Text Encryption by a Finite Field, *Communications in Combinatorics, Cryptography & Computer Sciences*, ISSN 2783-5456, N°2, pp. 136-151 (August 7, 2024)

Chapitres (Lecture Notes) :

- 1) M. Lazri, Y. Attaf, **K. Labadi**, N. Bensafi, S. Hameg, S. Ameer (2024) « Application of CNN for separation between no rain and rain from remote sensing data », **Accepted to be published in LNNS Springer (SCOPUS Indexed), Book series, Lecture Notes in Networks and Systems)**
- 2) M. Lazri, Y. Attaf, **K. Labadi**, F. Ouallouche, S. Hameg (2024) « Combination of bagging and neural network for improving precipitation estimates using remote sensing data », **Handbook of Formal Optimization (Springer)** https://doi.org/10.1007/978-981-19-8851-6_51-1
- 3) M. Lazri, **K. Labadi** Y. Mohia, F. Ouallouche, **R. Absi**, Y. Attaf, D. Alouache, (2024). « Comparison Between SVR and SVM in Rainfall Estimation from Remote Sensing Data. » In: Kulkarni, A.J., Cheikhrouhou, N. (eds) *Intelligent Systems for Smart Cities. ICISA 2023*. Springer, Singapore. https://doi.org/10.1007/978-981-99-6984-5_19; https://www.amazon.in/Intelligent-Systems-Smart-Cities-International/dp/9819969832/ref=sr_1_1?qid=1695966046&refinements=p_27%3AAanand+J.+Kulkarni&s=books&sr=1-1

2. CONFERENCES

- 1) **Tangour F., Absi R., Almousa M., El Abbassi I.**, Introducing the 5 Big ideas in Artificial Intelligence using Internet of Things in STEM (Science, Technology, Engineering and Mathematics) Education : AI Application for speech recognition, 27th International Conference on Interactive Collaborative Learning, ICL2024 - Futureproofing Engineering Education for Global Responsibility, 24–27 September 2024, Tallinn, Estonia <https://icl-conference.org/current/index.php>
- 2) Golovianko, M.; Gryshko, S.; Kaikova, O.; Shevchenko, O.; Terziyan, V.; **Absi, R.**, Exploring the Social Impact of Multidisciplinary, Multicultural Hybrid Collaborative Learning Across Diverse Domains, 27th International Conference on Interactive Collaborative Learning, ICL2024 - Futureproofing Engineering Education for Global Responsibility, 24–27 September 2024, Tallinn, Estonia <https://icl-conference.org/current/index.php>
- 3) Lazri, M., **Labadi, K.**, Mohia, Y., **Absi, R.**, Attaf, Y., Alouache, D. (2024). Comparison Between SVR and SVM in Rainfall Estimation from Remote Sensing Data. In: Kulkarni, A.J., Cheikhrouhou, N. (eds) *Intelligent Systems for Smart Cities. 2nd International Conference on Intelligent Systems and Applications (ICISA 2023)*. Pune, MH, INDIA, May 3 to 5, 2023 (Selected as Chapter Book, Springer, Singapore. https://doi.org/10.1007/978-981-99-6984-5_19)
- 4) M. Lazri, Y. Attaf, **K. Labadi**, N. Bensafi, S. Hameg, S. Ameer (2024) Application of CNN for separation between no rain and rain from remote sensing data, 3rd International Conference on Intelligent Systems and Applications (ICISA 2024), Pune, MH, INDIA, April 26th & 27th, 2024. (Selected to be published in **LNNS Springer, Book series, Lecture Notes in Networks and Systems)**
- 5) Abbassi, T., Brai, S., Sahour, A., Bekhouche, A., **Benkherraf, M.**, Abbassi, H., A. (2024). Advancing date palm irrigation decisions by predicting soil moisture based on weather forecasting and machine learning case of study: ATECE'24, El-Oued, Algeria.

- 6) Naaza C., El Barkany A., **El Abassi I.** (2024) Evaluation of the state of the civil engineering structures in the province of Fes-Moulay Yacoub-Morocco, WA2EN2023, BIO Web of Conferences 109, 01025 (2024) <https://doi.org/10.1051/bioconf/202410901025>
- 7) Romdhani S.; Ben Khader Bouzid M.; **Absi R.** (2024) Intelligent Energy management systems in Hybrid renewable energy systems, IEEE International Conference on Artificial Intelligence & Green Energy (IEEE ICAIGE24) October 10-12, 2024 in Yasmine Hammamet, Tunisia.
- 8) **Koubayssi A.**, Arnaout M., **Abou Chahine M.**, **Absi R.**, Effectiveness Investigation of the Droop Control through Solar Inverters and Synchronous Generators in an Island Hybrid Micro-Grid: A Lebanese Case Study, The 2nd International Conference on Smart Systems and Power Management (IC2SPM 2024). IEEE, November 28-29, 2024. Paper 1571067822 (accepted).
- 9) **Koubayssi A.**, Arnaout M., **Abou Chahine M.**, **Absi R.**, Optimal Reactive Power Compensation for Hybrid Multi-Source Systems Operating in Different IEEE Distribution Buses: Enhancing Voltage Stability and Loss Reduction, The 2nd International Conference on Smart Systems and Power Management (IC2SPM 2024). IEEE, November 28-29, 2024. Paper 1571067848 (accepted).
- 10) G. Di Palo, **M. Uzunova**, A. Voto, **R. Absi**, **S. Hamaci**, A survey of Open Innovation ecosystems and practices within six countries for regional policy recommendations, EVF'2024 – 11th International Conference on Energy and City of the Future at Les Mureaux (France), November 21-22, 2024.
- 11) **Koubayssi A.**, Arnaout M., **Abou Chahine M.**, **Absi R.**, Power Compensation of Shunt Capacitors for Hybrid Multi-Source Systems: Improving Voltage Stability and Reducing Losses, EVF'2024 – 11th International Conference on Energy and City of the Future at Les Mureaux (France), November 21-22, 2024.
- 12) **Sasportas R.**, Extraction of linearly independent rows and dependency coefficients in datasets, EVF'2024 – 11th International Conference on Energy and City of the Future at Les Mureaux (France), November 21-22, 2024.
- 13) **Fils, J.**, Energy production with fusion: comparison of electro-magnetic confinement and laser-driven inertial compression methods. EVF'2024 – 11th International Conference on Energy and City of the Future at Les Mureaux (France), November 21-22, 2024.
- 14) Abbassi T.-E., Sahour A., **Benkherratt M.**, Bouhamrez F., Machine Learning-Based Soil Moisture Prediction Using Meteorological Data for Enhanced Irrigation Management, EVF'2024 – 11th International Conference on Energy and City of the Future at Les Mureaux (France), November 21-22, 2024.
- 15) Lakehal Ayat M., Chaker A., **Absi R.**, Validation of the numerical model of a concentrated photovoltaic-thermal hybrid collector using TRYSYS, EVF'2024 – 11th International Conference on Energy and City of the Future at Les Mureaux (France), November 21-22, 2024.
- 16) Abbassi Takieddine , Brai Saddam, Sahour Abdelhakim, Bakhouch Abdelaali, **Benkherratt M.**, Abbassi Hadj Ahmed, Advancing date palm irrigation decisions by predicting soil moisture based on weather forecasting and machine learning case of study: El-Oued, ATECE'24, (Algeria), 07 may, 2024
- 17) Amira YOUBI1, Amira AFRI 1, Taki-eddine YAH11, Ahmed HOUILIA 2, Hadj Ahmed ABBASSI1 **Benkherratt M.**, Création d'un écosystème artificiel innovant au niveau de la zone marécageuse d'El Rym Annaba (Nord-est Algérien), EVF'2024, Les Mureaux, France, November 21-22, 2024.
- 18) **Koubayssi A.**, Arnaout M., **Abou Chahine M.**, **Absi R.**, Voltage Stability Enhancement in Lebanese Islanded Hybrid Microgrid: The Role of Shunt Capacitor Banks and Synchronous Generator Droop Control, IEEE-ICM2024-Qatar

Autres publications et présentations :

- **Moncef Benkherrat:** Séminaire et présentation aux doctorants de l'université d'Annaba (Algérie) sur les applications du traitement du signal et les démarches de recherche dans ce domaine (19 Février 2024).
- **Moncef Benkherrat:** Présentation au Centre de Recherche en Environnement (CRE) : les applications de l'électronique dans le domaine de l'environnement (20 Février 2024).