

Production Scientifique ECAM-EPMI LR2E 2022

Total 27 en 2023 : 12 articles et 15 communications

I. ARTICLES DE REVUES INTERNATIONALES PUBLICATIONS LR2E en 2022

12 articles en 2022

- 1) **Dalla Via, M.**, Fassò, F. & Sansonetto, N. (2022), On the dynamics of a heavy symmetric ball that rolls without sliding on a uniformly rotating surface of revolution, *Journal of Nonlinear Science*, 32, 84 <https://doi.org/10.1007/s00332-022-09842-5>
- 2) Jain P., Kundu S., Ghoshal K., **Absi R.**, (2022) Direct Derivation of Streamwise Velocity from RANS Equation in an Unsteady Nonuniform Open-Channel Flow, *Journal of Engineering Mechanics*, ASCE, (148)12, 06022002. [https://doi.org/10.1061/\(ASCE\)EM.1943-7889.0002169](https://doi.org/10.1061/(ASCE)EM.1943-7889.0002169)
- 3) Welderufael M., **Absi R.**, Mélinge Y. (2022) Assessment of velocity profile models for turbulent smooth wall open channel flows, *ISH Journal of Hydraulic Engineering*, Taylor & Francis. Volume 28, Issue sup1, 69-79. <https://doi.org/10.1080/09715010.2019.1677180>
- 4) Ghoshal, K., Jain, P., **Absi, R.** (2022) Nonlinear partial differential equation for unsteady vertical distribution of suspended sediments in open channel flows: effects of hindered settling and concentration-dependent mixing length, *Journal of Engineering Mechanics*, ASCE, 148(1), 04021123. [https://doi.org/10.1061/\(ASCE\)EM.1943-7889.0002045](https://doi.org/10.1061/(ASCE)EM.1943-7889.0002045)
- 5) Hamroun, **K. Labadi**, M. Lazri, J.-P. Barbot (2022) A Petri Nets-Based Simulation Methodology for Modular Modeling and Performance Evaluation of Car-Sharing Networks, *IEEE Transactions on Automation Science and Engineering* (TASE), Volume: 20 Issue: 3, pp. 1945 – 1961. <https://doi.org/10.1109/TASE.2022.3189405>
- 6) L. Bazizi, F. Rahmoune, O. Lekadir, **K. Labadi** (2022), Modeling, Performance Evaluation and Optimization of (s, Q) Retrieval Inventory System with partial backlogging demands: A GSPN Approach, *European Journal of Industrial Engineering*, 2023 Vol.17 No.4, pp.529 – 569. <https://doi.org/10.1504/EJIE.2023.131778>
- 7) **Bianca, C.** On the Modeling of Energy-Multisource Networks by the Thermostatted Kinetic Theory Approach: A Review with Research Perspectives, *Energies*, 2022, 15(21), 7825 <https://doi.org/10.3390/en15217825>
- 8) **Bianca, C.** Special Issue: Symmetry in Nonequilibrium Statistical Mechanics and Dynamical Systems, *Symmetry*, 2022, 14(10), 1960 <https://doi.org/10.3390/sym14101960>
- 9) **Bianca, C.**, Menale, M. On the Initial-Boundary-Value Problem and Moments Evolution in a Thermostatted Framework with Nonhomogeneous Boundary Conditions, *Applied Mathematics and Information Sciences*, 2022, 16(5), pp. 781–788 <http://dx.doi.org/10.18576/amis/160512>
- 10) **Bianca, C.**, Menale, M. A Nonconservative-Thermostat Kinetic Theory Framework: Density and Linear-Momentum Evolution, *Applied Mathematics and Information Sciences*, 2022, 16(5), pp. 681–687 <http://dx.doi.org/10.18576/amis/160503>

- 11) **Bianca, C.**, Menale, M. On the Existence of Self-Similar Solutions in the Thermostatted Kinetic Theory with Unbounded Activity Domain, *Mathematics*, 2022, 10(9), 1407
<https://doi.org/10.3390/math10091407>
- 12) **Bianca, C.** (2022) Interplay and multiscale modeling of complex biological systems, *AIMS Biophysics*, 2022, 9(1), pp. 56–60 <https://doi.org/10.3934/biophy.2022005>

I. CONFERENCES & AUTRES PUBLICATIONS

15 communications pour 2022

- 1) Welderufael M., **Absi R.**, Faraj A., Effect of eddy viscosity and turbulent Schmidt number on suspended sediment concentration profiles: interest of the fractional advection-diffusion equation, 39th IAHR World Congress, June 19 - 24, 2022, Granada, Spain. <https://doi.org/10.3850/IAHR-39WC2521711920221124>
- 2) **Ba L.**, **El Abbassi I.**, Ngo T.-T., Pliya P., Kane C.S.E., **Darcherif A.-M.**, Ndongo M. Investigation of the length and percentage fiber influence of Typha Australis on biosourced composites, 8th International Conference on Energy & City of the Future EVF'2021, Cergy-Pontoise, 26 November, 2021. E3S Web of Conferences, Volume 353 (2022), R. Absi and I. El Abbassi (Eds.), 01002 <https://doi.org/10.1051/e3sconf/202235301002>
- 3) Kaci A., **Hamaci S.**, **El Abbassi I.**, Chelouah R., Contributions of Information and communication technologies to industrialization of additive manufacturing, 8th International Conference on Energy & City of the Future EVF'2021, Cergy-Pontoise, 26 November, 2021. E3S Web of Conferences, Volume 353 (2022), R. Absi and I. El Abbassi (Eds.), 01004, <https://doi.org/10.1051/e3sconf/202235301004>
- 4) M. Lazri, F. Ouallouche, **K. Labadi**, S. Ameur (2022) "Extreme Learning Machine versus Multilayer perceptron for rainfall estimation from MSG Data", 8th International Conference on Energy & City of the Future EVF'2021, Cergy-Pontoise, 26 November, 2021. E3S Web of Conferences, Volume 353 (2022), R. Absi and I. El Abbassi (Eds.), 01006, <https://doi.org/10.1051/e3sconf/202235301006>
- 5) **Meliani M.**, El Barkany A., **El Abbassi I.**, **Absi R.**, Mahmoudi M. Energy Management of a Fuzzy Control System in a Microgrid, 8th International Conference on Energy & City of the Future EVF'2021, Cergy-Pontoise, 26 November, 2021. E3S Web of Conferences, Volume 353 (2022), R. Absi and I. El Abbassi (Eds.), 02002. <https://doi.org/10.1051/e3sconf/202235302002>
- 6) J. Welako, G. N'cho, A. Marta, **K. Labadi**, **R. Absi**, K. Boudjema, Energy optimization and predictive maintenance of an asphalt plant: A case study, 8th International Conference on Energy & City of the Future EVF'2021, Cergy-Pontoise, 26 November, 2021. E3S Web of Conferences, Volume 353 (2022), R. Absi and I. El Abbassi (Eds.), 02004 <https://doi.org/10.1051/e3sconf/202235302004>
- 7) H. Payet-Taille, S. Marchandon, **R. Absi**, Friction factor from velocity profiles in smooth turbulent channel flows, 8th International Conference on Energy & City of the Future EVF'2021, Cergy-Pontoise, 26 November, 2021. E3S Web of Conferences, Volume 353 (2022), R. Absi and I. El Abbassi (Eds.), 02005 <https://doi.org/10.1051/e3sconf/202235302005>
- 8) **Yang P.**, Fu, H., **Absi R.**, Bennacer, R., **Darcherif A.-M.** Carbide austempered ductile iron: current status and future prospects, 8th International Conference on Energy & City of the Future EVF'2021, Cergy-Pontoise, 26 November, 2021. E3S Web of Conferences, Volume 353 (2022), R. Absi and I. El Abbassi (Eds.), 03005 <https://doi.org/10.1051/e3sconf/202235303005>
- 9) F. Ouallouche, **K. Labadi**, Y. Mohia, Mourad Lazri and S. Ameur (2022) "Artificial Intelligence for Satellite Image Processing: Application to Rainfall Estimation", ICISA 2022, 1st International Conference on Intelligent Systems and Applications, May 4-6, 2022, Pune, India.

- 10) M. Lazri, **K. Labadi**, F. Ouallouche and S. Ameur (2022) “Optimization of rainfall intensities classification based on Intelligence Artificial using Recurrent Neural Network”, ICISA 2022, 1st International Conference on Intelligent Systems and Applications, May 4-6, 2022, Pune, India. (Best paper Award).
- 11) **M. Uzunova**, A. Grantcharov, K. Dimitrov and R. Velichkova, Contribution in modelling and design of traffic flow using digital logic and BOND GRAPH approach, EVF’2022 – 9th International Conference on Energy & City of the Future, November 14-15, El Jadida, Morocco.
- 12) **M. El Yassi, I. El Abbassi**, A. Pierre et Y. Mélinge. Influence d’inclusions de MCP_{s-1} sur les propriétés thermiques du plâtre dihydraté. RUGC-22, 23-25 mai, Lille, France.
- 13) **M. El Yassi, I. El Abbassi**, A. Pierre et Y. Mélinge. Influence of inclusions of two types of PCM on the thermal properties of plaster. EVF’2022 – 9th International Conference on Energy & City of the Future, November 14-15, El Jadida, Morocco.
- 14) M. Benkherraf, S. M’Hamdi, M. Almousa, Training and pre-professionalization of young people with autism, EVF’2022 – 9th International Conference on Energy & City of the Future, November 14-15, El Jadida, Morocco.
- 15) **Bouras A., Hamaci S.**, Ech-Chhibat M. E.-H., Samri H., **Absi R.** EVF’2022 – 9th International Conference on Energy & City of the Future, November 14-15, El Jadida, Morocco.