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L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

Cărbureanu, M., *Sistem expert neuro-fuzzy pentru controlul proceselor de epurare a apelor uzate*, Universitatea Petrol-Gaze din Ploiești, Ploiești, 2014;

B. Cărți și capitole în cărți publicate

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3. **Cărbureanu, M.**, *Introducere în cibernetică. Îndrumar de laborator*, Editura Universității Petrol-Gaze din Ploiești, ISBN 978-973-719-632-3, 92 pag, 2015.
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2. Roșca, C.-M., **Cărbureanu, M.** - *A comparative analysis of sorting algorithms for large-scale data: performance metrics and language efficiency*, 4th INTERNATIONAL CONFERENCE ON EMERGING TRENDS AND TECHNOLOGIES ON INTELLIGENT SYSTEMS (ETTIS 2024), India, 27th - 28th March, 2024 - BEST PAPER AWARD.
 3. Doicin, B., **Cărbureanu, M.**, Popa, C. - *Artificial neural network vs. linear regression to modeling the reactor of the catalytic cracking process*, 24th International Scientific Multidisciplinary Conference on Earth and Planetary Sciences SGEM 2024, 29 Jun, 2024-8 July 2024, Albena, Bulgaria.
 4. **Cărbureanu, M.**, Roșca, C.-M. - *Evaluating Wastewater pH Prediction Solutions in Custom Python and C# Models*, 5th INTERNATIONAL CONFERENCE ON EMERGING TRENDS AND TECHNOLOGIES ON INTELLIGENT SYSTEMS (ETTIS 2025), India, 19 - 21 March, 2025 - BEST PAPER AWARD.
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21. Mihalache, S., **Cărbureanu, M.**, *Fuzzy Logic Controller Design for Tank Level Control*, Petroleum-Gas University of Ploiesti Bulletin, Technical Series, 2014, Vol. LXVI, No. 3, pp. 57-62, ISSN 1224-8495 (**revistă BDI**).
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D. Lucrări publicate în reviste și volume de conferințe cu referenți (neindexate)

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5. **Cărbureanu, M.**, *A System with Fuzzy Logic for Analysing the Emissary Pollution Level of a Wastewater Treatment Plant*, Proceedings CSCS-18- 18th International Conference on Control Systems and Computer Science, 2011, Vol. 1, pag. 413-420, Politehnica Press Publishing House, ISSN: 2066-4451.
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