

LISTA LUCRĂRILOR ȘTIINȚIFICE PUBLICATE

Doctorand: Cărbureanu Mădălina

CĂRȚI PUBLICATE ÎN EDITURI INTERNAȚIONALE DE PRESTIGIU DIN STRĂINĂTATE

1. Balas, V., Hristova, P., Jain, L., co-autori Paraschiv, N., Oprea, M., **Cărbureanu, M.**, Olteanu, M., *Innovations in Intelligent Machines-5.Computational Intelligence in Control Systems Engineering, Computational Intelligence Techniques for Chemical Process Control (Chapter 7)* , DOI 10.1007/978-3-662-43370-6_7, ISBN 978-3-662-43369-0, Online ISBN 978-3-662-43370-6, Series Title Studies in Computational Intelligence, Series Volume 561, Series ISSN 1860-949X, Publisher Springer Berlin Heidelberg, Copyright Holder Springer –Verlag Berlin Heidelberg, 2014, pp. 191-226;

LUCRĂRI PUBLICATE ÎN REVISTE COTATE ISI CU FACTOR DE IMPACT

2. **Cărbureanu, M.**, *The Development of a Neuro-Fuzzy Expert System for Wastewater pH Control*, Journal of Control Engineering and Applied Informatics, 2014, Factor de impact=0.228 (acceptat, în curs de publicare);
3. **Cărbureanu, M.**, Gheorghe, C., *pH Variation in the Presence of the Coagulants used in Oil-well Industry Wastewater Treatment*, Revista de Chimie, vol. 65, nr. 12, ISSN 0034-7752, Factor de impact =0.677, pp.1498-1501, 2014;

LUCRĂRI PUBLICATE ÎN REVISTE BDI

4. Mihalache, S., **Cărbureanu, M.**, *Fuzzy Logic Controller Design for Tank Level Control*, Petroleum-Gas University of Ploiesti Bulletin, Technical Series, Vol. LXVI, No. 3, pp. 57-62, 2014;
5. **Cărbureanu, M.**, Buruiană, V., *Intelligent Automatic pH Control System Based on Microcontrollers*, Petroleum-Gas University of Ploiesti Bulletin, Technical Series, Vol. LXV, No. 4, pp. 112-120, 2013;
6. **Cărbureanu, M.**, *Wastewater pH Control Using Artificial Intelligence Techniques - A Comparative Study*, Petroleum-Gas University of Ploiesti Bulletin, Technical Series, Vol. LXV, No. 2, pp. 49-56, 2013;

7. **Cărbureanu, M.**, Cangea, O., *Experimental Identification of a Hydraulic Process Simulated on ASTANK 2 Integrated Laboratory Platform*, Petroleum-Gas University of Ploiesti Bulletin, Technical Series, Vol. LXV, No. 3, pp. 57-64, 2013;
8. Oprea, M., **Cărbureanu, M.**, Dragomir, E., *AirQMAS: A Collaborative Multi-agent System for Air Quality Analysis*, Annals of the University of Craiova, Series: Automation, Computers, Electronics and Mechatronics, Vol. 9 (36), No. 1, http://ace.ucv.ro/anale/content2012vol9_nr1.html , pp. 20-26, 2012;
9. **Cărbureanu, M.**, *The Wastewater pH Control Using an Artificial Intelligence Technique*, Petroleum-Gas University of Ploiesti Bulletin, Technical Series, Vol. LXIV, No. 3, pp. 83-93, 2012;
10. **Cărbureanu, M.**, *Pollution Level Analysis of a Wastewater Treatment Emissary using Data Mining*, Petroleum-Gas University of Ploiesti Bulletin, Mathematics-Informatics-Physics Series, Vol. LXII, No. 1, pp. 69-78, 2010;
11. **Cărbureanu, M.**, *Expert System for Assessing the Effluent's Quality of a Wastewater Treatment Plant*, Petroleum-Gas University of Ploiesti Bulletin, Mathematics-Informatics-Physics Series, Vol. LXII, No. 2, pp. 36-45, 2010;
12. **Cărbureanu, M.**, *The Efficiency Level Analysis for the Wastewater Mechanical Treatment Process using Data Mining and Fuzzy Logic*, Petroleum-Gas University of Ploiesti Bulletin, Mathematics-Informatics-Physics Series, Vol. LXI, Nr. 2, pp.59-66, 2009;

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13. **Cărbureanu, M.**, Oprea, M., *Applying Computational Intelligence to Wastewater Treatment Performance Evaluation in the Case of Refineries*, ICPS'13, Convergence of Information Technologies and Control Methods with Power Systems Vol. 2, Part 1, International Federation of Automatic Control-IFAC, www.IFAC-PapersOnLine.net website, Digital Object Identifier (DOI) 10.3182/20130522-3-RO-4035.00002, pp. 95-100, 2013;
14. Oprea, M., Dragomir,E., **Cărbureanu, M.**, *On the Use of Collaborative Intelligence in an Agent-based Environmental Monitoring and Analysis System*, The 15th International Conference on System Theory, Control and Computing, ICSTCC 2011, IEEE Control Systems Society, Romanian Academy, SRAIT, ASTR, IEEEExplore database, <http://www.ace.tuiasi.ro/icstcc2011/index.html>, pp. 421-426, 2011;

15. **Cărbureanu, M.,** *An Expert System for Wastewater pH Control*, International Conference of Scientific Paper–AFASES 2012, Braşov, indexat EBSCO, ASCEDU- ASSOCIATION for RESEARCH and EDUCATION, pp. 777-781, 2012;
16. **Cărbureanu, M.,** *The Monitoring of Wastewater pH using a Data Mining Technique*, International Conference of Scientific Paper–AFASES 2012, Braşov, indexat EBSCO, ASCEDU- ASSOCIATION for RESEARCH and EDUCATION, 2012;

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17. **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, Vol. 1, Politehnica Press Publishing House, ISSN: 2066-4451, Control Systems Computer Science, Politehnica University of Bucharest, Romanian Society of Control Engineering and Tehnical Informatics-SRAIT, pp. 413-420, 2011;
18. **Cărbureanu, M.,** *A System for Monitoring the Effluent's Quality of an Industrial Wastewater Treatment Plant*, The 5th International Conference on Manufacturing Science and Education -MSE 2011 -Creative Thinking in Engineering and Academic Education, MSE 2011 Conference Proceedings, The Manufacturing Engineering University Association- AUIF, pp. 409-412, 2011;
19. **Cărbureanu, M.,** *Simulators used for Treatment Processes Modelling*, The 5th International Conference on Manufacturing Science and Education - MSE 2011 - Creative Thinking in Engineering and Academic Education, MSE 2011 Conference Proceedings, Manufacturing Engineering University Association - AUIF, pp. 413-416, 2011;
20. **Cărbureanu, M.,** *Using Principal Component Analysis in Wastewater Treatment Domain*, ECO-TREND 2010, International Scientific Conference ECO-TREND, Economics and Globalisation, VIIth Edition, 2010.

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