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Gradul didactic: Conferențiar
Instituția unde este titular: Universitatea Națională de Știință și Tehnologie Politehnica București
Facultatea: Automatică și Calculatoare
Departamentul: Automatică și Ingineria Sistemelor

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

“Configurarea asistată de calculator a sistemelor numerice de conducere” – condusă de Prof.dr.ing. Dumitru Popescu, susținută în 15.03.2002

B. Cărți si capitole în cărți publicate în ultimii 10 ani

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Cărți si capitole în cărți publicate în toți anii

1. Petrescu C., Automate Programabile si Microprogramare, Editura AOSR, 2011, 89 pag., ISBN 978-606-8371-24-5
2. Lupu C., Udrea A., Popescu D., Petrescu C., Ticlea Al., Dimon C., Irimia B., - Practically solutions for nonlinear processes control / Solutii practice de conducere a proceselor neliniare, Ed. PolitehnicaPress (cod CIP 12676/21.06.2010), 2010, 310 pag., ISBN 978-606-515-105-5
3. Popescu D., Petrescu C. Lupu C., Dimon C., - Commande et optimisation des installations de chauffage de l'air dans une aci'erie, in Automatique Avancee et Informatique Apliquee, Editura Academiei Romane (COD CNCSIS 39), 2009, pp. 193-198, ISBN 978-973-27-1806-3
4. Petrescu C., Popescu D., Lupu C., Arhitecturi hardware/software pentru sisteme numerice de conducere , Editura MatrixRom (COD CNCSIS 39), Bucuresti, 2007, 132 pag, ISBN 978-973-755-197-9
5. Popescu D., Stefanoiu D., Lupu C., Petrescu C., Ciubotaru B., Dimon C. – Automatica Industrială, Editura AGIR (COD CNCSIS 140), Bucuresti 2006, 382 pag., ISBN 973-720-093-4
6. Lupu C., D. Popescu, C. Petrescu, M. Alexandru, M. Mateescu, Process Control Systems / Sisteme de Conducere a Proceselor, Editura Printech (COD CNCSIS 54), 380 pag., Bucuresti 2004, ISBN 973-718-016-X

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani**Indexate ISI:**

1. Jinga, N, Petrescu, C, Mitrut, O, Moldoveanu, A, Moldoveanu, F, Petrescu, L, "Biophysical Signal Processing for Automatic Anxiety Classification in a Virtual Reality Exposure Therapy System", University Politehnica of Bucharest Scientific Bulletin Series C-Electrical Engineering and Computer Science, Volume: 86, Issue: 2, pp: 73-84, ISSN: 2286-3540, WOS: 001247513600007
2. Moldoveanu, A., Mitruț, O., Jinga, N., Petrescu, C., Moldoveanu, F., Asavei, V., Anghel, A.M., Petrescu, L., "Immersive Phobia Therapy through Adaptive Virtual Reality and Biofeedback", Applied Sciences, 2023, Vol 13, Issue 18, pp. 10365, <https://doi.org/10.3390/app131810365>, WOS:001128408700001
3. Băncilă, DM ; Popescu, D; Chiriac, AI; Colbu, S ; Olteanu, SC; Petrescu, C., "Chemical Non-Isothermal Processes-Stability study and Optimal Control", 2021 25TH INTERNATIONAL CONFERENCE ON SYSTEM THEORY, CONTROL AND COMPUTING (ICSTCC), pp. 18-24, 2021, 10.1109/ICSTCC52150.2021.9607060, WOS:000859487900004
4. Petrescu, L.; Petrescu, C.; Oprea, A.; Mitruț, O.; Moise, G.; Moldoveanu, A.; Moldoveanu, F. Machine Learning Methods for Fear Classification Based on Physiological Features. Sensors 2021, 21, 4519. <https://doi.org/10.3390/s21134519>, WOS:000671311000001
5. Petrescu, L.; Petrescu, C.; Mitruț, O.; Moise, G.; Moldoveanu, A.; Moldoveanu, F.; Leordeanu, M. Integrating Biosignals Measurement in Virtual Reality Environments for Anxiety Detection. Sensors 2020, 20, 7088. <https://doi.org/10.3390/s20247088>, WOS:000603276400001
6. Boiangiu, C.-A.; Dinu, O.-A.; Popescu, C.; Constantin, N.; Petrescu, C. Voting-Based Document Image Skew Detection. Appl. Sci. 2020, 10, 2236. <https://doi.org/10.3390/app10072236>, WOS:000533356200035
7. L. S. Ismail, C. Petrescu, C. Lupu and D. L. Luu, "Design of Optimal PID Controller for Magnetic Levitation System Using Linear Quadratic Regulator Approach," 2020 International Symposium on Fundamentals of Electrical Engineering (ISFEE), 2020, pp. 1-6, doi: 10.1109/ISFEE51261.2020.9756190, WOS:000812321500057
8. Luu D.L., Lupu C., Petrescu C., Simulation and Experimentation of Adaptive Cruise Control for Robot Platooning, 2020 24th International Conference on System Theory, Control and Computing, ICSTCC 2020 - Proceedings, art. no. 9259781, pp. 721 - 726, DOI: 10.1109/ICSTCC50638.2020.9259781, WOS:000646582900119
9. Balan O., Moldoveanu A., Petrescu L., Moise G., Cristea S., Petrescu C., Moldoveanu F., Leordeanu M., "Sensors system methodology for artefacts identification in Virtual Reality games", 2019 International Symposium on Advanced Electrical and Communication Technologies, ISAECT 2019, art. no. 9069719, DOI: 10.1109/ISAECT47714.2019.9069719, WOS:000569987700048
10. Lupu C., Olteanu S., Gliga L., Petrescu C., Optimal and safety hardware and software control structure for dual axes solar tracker, 019 23rd International Conference on System Theory, Control and Computing, ICSTCC 2019 - Proceedings, art. no. 8885876, pp. 833 - 838, DOI: 10.1109/ICSTCC.2019.8885876, WOS:000590181100140

11. Vulpe A., Moldoveanu O., Lupu C., Petrescu C.-D., Vehicle-integrated photovoltaic modules - Design considerations and control structures, 2019 15th International Conference on Engineering of Modern Electric Systems, EMES 2019, art. no. 8795189, pp. 13 - 16, DOI: 10.1109/EMES.2019.8795189, WOS:000503434500004
12. Lupu C., Secuianu F.D., Mihai C.C., Petrescu C., Fast Disturbance Rejection in MIMO Process Based on Algorithms Switching - 22nd International Conference On System Theory, Control and Computing (ICSTCC), pp. 469-473, October 10-12, 2018, ISBN: 978-1-5386-4444-7, WOS:000465109800077
13. Petrescu C., Petrescu L., Data Acquisition System for Electrodermal Activity Recording - University Politehnica of Bucharest Scientific Bulletin Series C-Electrical Engineering and Computer Science, Volume: 80, Issue: 1, pp: 51-62, ISSN: 2286-3540, WOS:000428622400005
14. Torous C.L., Popescu D., Petrescu C., Balan D.V., Extremal control of DC/DC Converters in photovoltaic configurations - 5th International Conference on Systems and Control (ICSC), pp: 211-216, May 25-27, 2016, ISBN:978-1-4673-8953-2, WOS:000389521200033
15. Lupu, C.; Petrescu, C.; A., Petrescu-Nita; Lupu, M., Design Consideration on Algorithms and Control Structures for Photovoltaic Grids, 2015 19th International Conference on System Theory, Control and Computing (ICSTCC), October 14-16, Cheile Gradistei, Romania, ISSN 978-1-4799-8481-7/15, pp. 646-651, WOS:000382384100107
16. Lupu C., Petrescu C., Lupu M., An Approach for Stabilized Control Structure on Photovoltaic Grids - 20th International Conference on Control Systems and Computer Science (CSCS), pp: 18-23, May 27-29, 2015, ISBN:978-1-4799-1780-8, WOS:000380375200003
17. Cojocariu B., Petrescu C., Stefanioiu D., Photovoltaic Generators - Modeling and Control - 20th International Conference on Control Systems and Computer Science (CSCS), pp: 32-37, May 27-29, 2015, ISBN:978-1-4799-1780-8, WOS:000380375200005

Indexate BDI:

17. Buddhika Priyashantha Kandamulla Arachchige, Mocanu Mariana, Catalin Petrescu, Claudiu Zafiu, "Applicability of Raspberry Pi IOT Device as Back Up Protection Device in Medium Voltage Power Systems", 2021 10th International Conference on ENERGY and ENVIRONMENT (CIEM), pp.1-5, DOI: 10.1109/CIEM52821.2021.9614777, indexat IEEE
18. Petrescu L., Beciu A., Al Hadeethi S., Ionescu-Tirgoviste C., Mihailescu D., Petrescu C., "Biometric estimation of emotional response as a method of study in neuromarketing", Proceedings of the Romanian Academy, Vol. 20, Issue 1, pp: 3-12, 2018, ISSN: 1454-8267, Clarivate Master Journal List - Zoological Record

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)**- Reviste**

1. Sarmad Al Hadeethi, Livia Petrescu, CI Tirgoviste, Cătălin-Dumitru Petrescu, D Mihailescu, „Low-frequency electrical impedance meat measurements”, 2018, Proc. Romanian Academy, Series B, Chemistry, Life Sciences and Geosciences, Vol. 20, Issue 3, pp. 173-178,
2. M. Azzouzi, L. Bessissa, M. F. Moussa, D. Popescu, C. Petrescu, „Artificial Neural Network Based Model of Photovoltaic Cell”, Renewable Energy and Sustainable Development Journal, Vol. 3, Issue 2, pp. 218-223, 2017

- Selecție cu maximum 20 lucrări în volume de conferințe

3. L. Petrescu, C. Petrescu, D.F. Mihailescu, „Multifrequency Skin Conductance Recording”, 14th National Conference of Biophysics - CNB 2016 Book of Abstracts, Cluj-Napoca, 2-4 iunie 2016

E. Brevete obținute în întreaga activitate

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Data: 25 Septembrie 2025**Semnă** 