RAMURA DE ȘTIINȚĂ: CALCULATOARE, TEHNOLOGIA INFORMAȚIEI ȘI INGINERIA SISTEMELOR
(COMISIA 15)
STANDARDE MINIMALE ȘI OBLIGATORII PENTRU CONFERIREA TITLURILOR DIDACTICE DIN ÎNVĂȚĂMÂNTUL SUPERIOR
ȘI A GRADELOR PROFESIONALE DE CERCETARE-DEZVOLTARE

**Candidat: Radu-Emil Precup**
**Centralizator Standarde minimale necesare si obligatorii**

| 1. Structura activității candidatului | | | | | | | |
|---|---|---|---|---|---|---|---|
| Nr. Crt. | Domeniul activităților | Categorii și restricții | | Subcategorii | | Indicatori $k_{pl}$ | Nr. realizat | Punctaj |
| 0 | 1 | 2 | | 3 | | 4 | 5 | 6 |
| 1 | Activitatea didactică și profesională (A1) | Cărți de autor sau capitole de specialitate la edituri cu ISBN | Cărți/monografii | A 1.1.1 | Internaționale | 50/nr. de autori | 2 cărți + 25 cap. | 299.33 |
| | | | | A 1.1.2 | Naționale | 50/nr. de autori | 5 cărți | 141.67 |
| | | Material didactic/Lucrări didactice publicate la edituri cu ISBN | Manuale didactice | A 1.2.1 | | 40/nr. de autori | 9 cărți | 170.00 |
| | | | | | | | TOTAL A1 | 610.99 |
| 2 | Activitatea de cercetare (A2) | Articole în reviste cotate ISI și lucrări în volumele unor manifestări științifice indexate ISI | | A 2.1 | | (25+30* factor impact)/ nr. de autori | 273 | 5982.34 |
| | | Articole în reviste și lucrări în volumele unor manifestări științifice indexate în alte baze de date internaționale recunoscute | | A 2.2 | | 20/nr. de autori | 77 | 383.98 |
| | | Proprietate intelectuală, brevete de invenție, certificate ORDA | | A 2.3.1 | Internaționale | 35/ nr. de autori | 0 | 0.00 |
| | | | | A 2.3.2 | Naționale (OSIM) | 25/ nr. de autori | 2 | 16.67 |
| | | Granturi/proiecte de cercetare câștigate prin competiție sau contracte cu agenți economici în valoare de minimum 10000 dolari SUA echivalent încasați | Director/responsabil partener | A 2.4.1.1 | Internaționale | 20*ani de desfășurare | 1 | 40 |
| | | | | A 2.4.1.2 | Naționale | 10*ani de desfășurare | 8 | 240 |
| | | | Membru în echipă | A 2.4.2.1 | Internaționale | 4*ani de desfășurare | 3 | 24 |
| | | | | A 2.4.2.2 | Naționale | 2*ani de desfășurare | 13 | 52 |
| | | | | | | | TOTAL A2 | 6738.98 |
| 3 | Recunoașterea și impactul activității (A3) | Citări în cărți, reviste și volume ale unor manifestări științifice | | A 3.1.1 | Cărți, ISI | (8/nr. aut art. citat)*2 dacă art care citează este în Q1, Q2 | 2165 | 5360.69 |
| | | | | A 3.1.2 | BDI | 4/nr. aut art. citat | 0 | 0.00 |
| | | Membru în comitetele de redacție sau comitetele științifice ale revistelor indexate ISI, chair, co-chair sau membru în comitetele de organizare ale manifestărilor științifice internaționale indexate ISI | | A 3.2 | | 10 | 25 | 250 |
| | | Membru în comitetele de redacție sau comitetele științifice ale revistelor indexate BDI, chair, co-chair sau membru în comitetele de organizare ale manifestărilor științifice internaționale indexate BDI | | A 3.3 | | 6 | 0 | 0 |
| | | Premii în domeniu conferite de Academia Română, ASTR, AOSR, sau premii internaționale de prestigiu | | A 3.4 | | 15 | 4 | 60 |
| | | | | | | | TOTAL A3 | 5670.69 |
| | | | | | | | TOTAL A1+A2+A3 | 13020.66 |

Tipul postului pentru care se completează grila     **PROFESOR**
Scorul de referință     850

| IC2.1./Ref. | 15.32 |
|---|---|

**Link dovezi:**
https://uptro29158-my.sharepoint.com/:f:/g/personal/radu_precup_upt_ro/EpzDDkDnKWpFm0HRhKmO1lABcDb7_dTBQm7-Z3PAYvm2FA?e=oQFmdC

RAMURA DE ȘTIINȚĂ: CALCULATOARE, TEHNOLOGIA INFORMAȚIEI ȘI INGINERIA SISTEMELOR
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ȘI A GRADELOR PROFESIONALE DE CERCETARE-DEZVOLTARE

Condiții minimale pentru profesor/abilitare

**Candidat: Radu-Emil Precup**
**Centralizator Standarde minimale necesare si obligatorii**

| 3. Condiții minimale | | | |
|---|---|---|---|
| Nr. crt. | Domeniul de activitate | CS I | Punctaj realizat |
| 1 | Activitatea didactică/profesională (A1) | Fără restricții | 610.99 |
| 2 | Activitatea de cercetare (A2) | 700 | 6738.98 |
| 3 | Recunoașterea impactului activității (A3) | 150 | 5670.69 |
| Total A | | 850 | 13020.66 |

| Condiții minimale obligatorii pe subcategorii | | CS I | Realizat |
|---|---|---|---|
| A 1.1.1 - A 1.1.2 | Cărți de specialitate | 1 carte | 16 cărți |
| A 2.1 | Articole în reviste cotate ISI și lucrări în volumele unor manifestări științifice indexate ISI proceedings | 15, din care minimum 3 în reviste cotate Q1 sau Q2 | 290, din care 54 în reviste cotate Q1 sau Q2 |
| A 2.4.1 | Granturi/proiecte de cercetare câștigate prin competiție (director/responsabil partener) | 4 | 9 |
| A 3.1.1 | Număr de citări în cărți, reviste cotate ISI și volume ale unor manifestări științifice ISI (WoS) | 25 | 2165 |
| | Factor de impact ISI cumulat pentru publicații | 10 | 486.75 |

**Link dovezi:**

https://uptro29158-my.sharepoint.com/:f:/g/personal/radu_precup_upt_ro/EpzDDkDnKWpFm0HRhKmO1lABcDb7_dTBQm7-Z3PAYvm2FA?e=oQFmdC

RAMURA DE ȘTIINȚĂ: CALCULATOARE, TEHNOLOGIA INFORMAȚIEI ȘI INGINERIA SISTEMELOR
(COMISIA 15)
STANDARDE MINIMALE ȘI OBLIGATORII PENTRU CONFERIREA TITLURILOR DIDACTICE DIN ÎNVĂȚĂMÂNTUL SUPERIOR
ȘI A GRADELOR PROFESIONALE DE CERCETARE-DEZVOLTARE

**Candidat: Radu-Emil Precup**

**Centralizator Standarde minimale necesare si obligatorii**

A 1 Activitatea didactică și profesională

A 1.1 Cărți de autor sau capitole de specialitate la edituri cu ISBN

A 1.1.1 Internaționale

| Nr. crt. | Lucrarea publicată | Nr. autori | Kpi | 1 - carte, 4 - capitol | Punctaj |
|---|---|---|---|---|---|
| | | | | | |
| 1 | R.-E. Precup, R.-C. David, Nature-Inspired Optimization Algorithms for Fuzzy Controlled Servo Systems, Butterworth-Heinemann, Elsevier, UK, 142 pp., ISBN: 978-0-12-816358-0, ISBN: 978-0-12-816606-2 (eBook), 2019. | 2 | 100 | 1 | 50.000 |
| 2 | R.-E. Precup, R.-C. Roman, A. Safaei, Data-Driven Model-Free Controllers, 1st Ed., CRC Press, Taylor & Francis, Boca Raton, FL, USA, 389 pp., ISBN 9780367697303 (hbk), ISBN 9780367698287 (pbk), ISBN 9781003143444 (ebk), 2021. | 3 | 100 | 1 | 33.333 |
| 3 | R.-E. Precup, R.-C. David, Nature-Inspired Optimal Tuning of Fuzzy Controllers, Chapter 20 in Handbook on Computer Learning and Intelligence, 2nd Edition, P. P. Angelov, Ed., World Scientific, Singapore, Volume 2: Deep Learning, Intelligent Control and Evolutionary Computation, ISBN: 978- | 2 | 100 | 1 | 50.000 |
| 4 | A. Albu, R.-E. Precup, T.-A. Teban, Intelligent Paradigms for Diagnosis, Prediction and Control in Healthcare Applications, in: Handbook of Artificial Intelligence in Healthcare, Vol. 2: Practicalities and Prospects, C.-P. Lim, Y.-W. Chen, A. Vaidya, C. Mahorkar and L. C. Jain, Eds.), Springer, Cham, ISSN | 3 | 100 | 1 | 33.333 |
| 5 | R.-E. Precup, E.-I. Voişan, R.-C. David, E.-L. Hedrea, E. M. Petriu, R.-C. Roman, A.-I. Szedlak-Stînean, Nature-inspired optimization algorithms for path planning and fuzzy tracking control of mobile robots, in: Applied Optimization and Swarm Intelligence, E. Osaba and X.-S. Yang, Eds., Springer Tracts in | 7 | 100 | 4 | 3.571 |
| 6 | A. T. Azar, F. E. Serrano, A. Koubaa, H. A. Ibrahim, N. A. Kamal, A. Khamis, I. K. Ibraheem, A. J. Humaidi, R.-E. Precup, Robust fractional-order sliding mode control design for UAVs subjected to atmospheric disturbances, Chapter 5 in Unmanned Aerial Systems: Theoretical Foundation and | 9 | 100 | 4 | 2.778 |

| | | | | | |
|---|---|---|---|---|---|
| 7 | R.-C. David, <u>R.-E. Precup</u>, St. Preitl, A.-I. Szedlak-Stînean, L.-O. Fedorovici, Application of grey wolf optimization in fuzzy controller tuning for servo systems, Chapter 13 in Swarm Intelligence - Volume 2: Innovation, new algorithms and methods, Y. Tan, Ed., IET Digital Library, Stevenage, pp. 363-387, ISBN 978-1-78561-629-7, 2018. | 5 | 100 | 4 | 5.000 |
| 8 | <u>R.-E. Precup</u>, R.-C. David, Nature-Inspired Optimization of Fuzzy Controllers and Fuzzy Models, Chapter 20 in Handbook on Computational Intelligence, P. P. Angelov, Ed., World Scientific, Singapore, Volume 2: Evolutionary Computation, Hybrid Systems, and Applications, pp. 697-729, ISBN 978-981-4675-00-0, ISBN 978-981-4675-04-8 (Vol. 2), 2016. | 2 | 100 | 4 | 12.500 |
| 9 | St. Preitl, <u>R.-E. Precup</u>, Zs. Preitl, A.-I. Stînean, C.-A. Dragoş, M.-B. Rădac, Pragmatic Design Methods Using Adaptive Controller Structures for Mechatronic Applications with Variable Parameters and Working Conditions, in: Complex Systems, G. M. Dimirovski, Ed., Studies in Systems, Decision and Control, vol. 55, Springer International Publishing, pp. 619-647, Print ISBN: 978-3-319-28858-1, Online ISBN: 978-3-319-28860-4, Series ISSN: 2198-4182, 2016. | 6 | 100 | 4 | 4.167 |
| 10 | <u>R.-E. Precup</u>, E.-I. Voişan, E. M. Petriu, M.-B. Rădac, L.-O. Fedorovici, Gravitational Search Algorithm-Based Evolving Fuzzy Models of a Nonlinear Process, in: Informatics in Control, Automation and Robotics, J. Filipe, K. Madani, O. Gusikhin and J. Sasiadek, Eds., Lecture Notes in Electrical Engineering, vol. 383, Springer International Publishing, pp. 51-62, Print ISBN: 978-3-319-31896-7, Online ISBN: 978-3-319-31898-1, Series ISSN: 1876-1100, 2016. | 5 | 100 | 4 | 5.000 |
| 11 | R.-C. David, <u>R.-E. Precup</u>, E. M. Petriu, St. Preitl, M.-B. Rădac, L.-O. Fedorovici, Adaptive Evolutionary Optimization Algorithms for Simple Fuzzy Controller Tuning Dedicated to Servo Systems, in: Fuzzy Modeling and Control: Theory and Applications, F. Matía, G. N. Marichal and E. Jiménez, Eds., Atlantis Computational Intelligence Systems, vol. 9 (Atlantis Press and Springer-Verlag), pp. 159-173, Print ISBN 978-94-6239-081-2, Online ISBN 978-94-6239-082-9, DOI: 10.2991/978-94-6239-082-9_8, 2014. | 6 | 100 | 4 | 4.167 |
| 12 | St. Preitl, <u>R.-E. Precup</u>, Z. Preitl, A.-I. Stînean, M.-B. Rădac, C.-A. Dragoş, Control Algorithms for Plants Operating Under Variable Conditions, Applications, in: Advances in Soft Computing, Intelligent Robotics and Control, J. Fodor and R. Fuller, Eds., Topics in Intelligent Engineering and Informatics, vol. 8 (Springer-Verlag), pp. 3-39, Print ISBN 978-3-319-05944-0, Online ISBN 978-3-319-05945-72014, DOI: 10.1007/978-3-319-05945-7_1, 2014. | 6 | 100 | 4 | 4.167 |
| 13 | R.-C. David, R.-B. Grad, <u>R.-E. Precup</u>, M.-B. Rădac, C.-A. Dragoş, E. M. Petriu, An Approach to Fuzzy Modeling of Anti-lock Braking Systems, in: Soft Computing in Industrial Applications, V. Snášel, P. Krömer, M. Köppen and G. Schaefer, Eds., Advances in Intelligent Systems and Computing, vol. 223 (Springer-Verlag), pp. 83-93, Print ISBN 978-3-319-00929-2, Online ISBN 978-3-319-00930-8, DOI: 10.1007/978-3-319-00930-8_8, 2014. | 6 | 100 | 4 | 4.167 |
| 14 | A.-I. Stînean, St. Preitl, <u>R.-E. Precup</u>, C.-A. Dragoş, M.-B. Rădac, Classical and Fuzzy Approaches to 2-DOF Control Solutions for BLDC-m Drives, in: Intelligent Systems: Models and Applications, E. Pap, Ed., Topics in Intelligent Engineering and Informatics, vol. 3 (Springer-Verlag), pp. 175-193, Print ISBN 978-3-642-33958-5, Online ISBN 978-3-642-33959-2, DOI: 10.1007/978-3-642-33959-2_10, 2013. | 5 | 100 | 4 | 5.000 |

| 15 | R.-E. Precup, F.-C. Enache, M.-B. Rădac, E. M. Petriu, St. Preitl, C.-A. Dragoş, Lead-Lag Controller-Based Iterative Learning Control Algorithms for 3D Crane Systems, in: Aspects of Computational Intelligence: Theory and Applications, L. Madarász and J Živčák, Eds., Topics in Intelligent Engineering and Informatics, vol. 2 (Springer-Verlag), pp. 25-38, Print ISBN 978-3-642-30667-9, Online ISBN 978-3-642-30668-6, DOI: 10.1007/978-3-642-30668-6_2, 2013. | 6 | 100 | 4 | 4.167 |
|---|---|---|---|---|---|
| 16 | St. Preitl, A.-I. Stînean, R.-E. Precup, C.-A. Dragoş, M.-B. Rădac, 2-DOF and Fuzzy Control Extensions of Symmetrical Optimum Design Method: Applications and Perspectives, in: Applied Computational Intelligence in Engineering and Information Technology, R.-E. Precup, Sz. Kovács, St. Preitl and E. M. Petriu, Eds., Topics in Intelligent Engineering and Informatics, vol. 1 (Springer-Verlag), pp. 19-37, Print ISBN 978-3-642-28304-8, Online ISBN 978-3-642-28305-5, DOI: 10.1007/978-3-642-28305-5_2, 2012. | 6 | 100 | 4 | 4.167 |
| 17 | R.-C. David, R.-E. Precup, St. Preitl, J. K. Tar, J. Fodor, Three Evolutionary Optimization Algorithms in PI Controller Tuning, in: Applied Computational Intelligence in Engineering and Information Technology, R.-E. Precup, Sz. Kovács, St. Preitl and E. M. Petriu, Eds., Topics in Intelligent Engineering and Informatics, vol. 1 (Springer-Verlag), pp. 95-106, Print ISBN 978-3-642-28304-8, Online ISBN 978-3-642-28305-5, DOI: 10.1007/978-3-642-28305-5_8, 2012. | 5 | 100 | 4 | 5.000 |
| 18 | Cl. Pozna, R.-E. Precup, Ideas on a Pattern of Human Knowledge, in: Applied Computational Intelligence in Engineering and Information Technology, R.-E. Precup, Sz. Kovács, St. Preitl and E. M. Petriu, Eds., Topics in Intelligent Engineering and Informatics, vol. 1 (Springer-Verlag), pp. 273-286, Print ISBN 978-3-642-28304-8, Online ISBN 978-3-642-28305-5, DOI: 10.1007/978-3-642-28305-5_22, 2012. | 2 | 100 | 4 | 12.500 |
| 19 | R.-E. Precup, S. V. Spătaru, M.-B. Rădac, E. M. Petriu, St. Preitl, C.-A. Dragoş, R.-C. David, Experimental Results of Model-Based Fuzzy Control Solutions for a Laboratory Antilock Braking System, in: Human-Computer Systems Interaction: Backgrounds and Applications 2, Part 2, Z. S. Hippe, J. L. Kulikowski and T. Mroczek, Eds., Advances in Intelligent and Soft Computing, vol. 99 (Springer-Verlag), pp. 223-234, Print ISBN 978-3-642-23171-1, Online ISBN 978-3-642-23172-8, DOI: 10.1007/978-3-642-23172-8_16, 2012. | 7 | 100 | 4 | 3.571 |
| 20 | L.-O. Fedorovici, R.-E. Precup, R.-C. David, F. Drăgan, GSA-Based Training of Convolutional Neural Networks for OCR Applications, in: Computational Intelligence Systems in Industrial Engineering, C. Kahraman, Ed., Atlantis Computational Intelligence Systems, vol. 6 (Atlantis Press and Springer-Verlag), pp. 481-504, Print ISBN 978-94-91216-76-3, Online ISBN 978-94-91216-77-0, DOI: 10.2991/978-94-91216-77-0_23, 2012. | 7 | 100 | 4 | 3.571 |
| 21 | R.-E. Precup, R.-C. David, St. Preitl, E. M. Petriu, J. K. Tar, Optimal Control Systems with Reduced Parametric Sensitivity Based on Particle Swarm Optimization and Simulated Annealing, in: Intelligent Computational Optimization in Engineering Techniques and Applications, M. Köppen, G. Schaefer and A. Abraham, Eds., Studies in Computational Intelligence, vol. 366 (Springer-Verlag), pp. 177-207, Print ISBN 978-3-642-21704-3, Online ISBN 978-3-642-21705-0, DOI: 10.1007/978-3-642-21705-0_7, 2011. | 5 | 100 | 4 | 5.000 |

| Nr. crt. | Lucrarea publicată | Nr. autori | Kpi | Capitol | Punctaj |
|---|---|---|---|---|---|
| 22 | R.-E. Precup, R.-C. David, E. M. Petriu, St. Preitl, A. S. Paul, Gravitational Search Algorithm-Based Tuning of Fuzzy Control Systems with a Reduced Parametric Sensitivity, in: Soft Computing in Industrial Applications, A. Gaspar-Cunha, R. Takahashi, G. Schaefer and L. Costa, Eds., Advances in Intelligent and Soft Computing, vol. 96 (Springer-Verlag), pp. 141-150, Print ISBN 978-3-642-20504-0, Online ISBN 978-3-642-20505-7, DOI: 10.1007/978-3-642-20505-7_12, 2011. | 5 | 100 | 4 | 5.000 |
| 23 | M.-B. Rădac, R.-E. Precup, E. M. Petriu, St. Preitl, C.-A. Dragoş, Convergent Iterative Feedback Tuning of State Feedback-Controlled Servo Systems, in: Informatics in Control Automation and Robotics, J. Andrade Cetto, J. Filipe and J.-L. Ferrier, Eds., Lecture Notes in Electrical Engineering, vol. 85 (Springer-Verlag), pp. 99-111, Print ISBN 978-3-642-19729-1, Online ISBN 978-3-642-19730-7, DOI: 10.1007/978-3-642-19730-7_7, 2011. | 5 | 100 | 4 | 5.000 |
| 24 | C.-A. Dragoş, St. Preitl, R.-E. Precup, M. Creţiu, J. Fodor, Modern Control Solutions with Applications in Mechatronic Systems, in: Computational Intelligence in Engineering, I. J. Rudas, J. Fodor and J. Kacprzyk, Eds., Studies in Computational Intelligence, vol. 313 (Springer-Verlag), pp. 87-102, Print ISBN 978-3-642-15219-1, Online ISBN 978-3-642-15220-7, DOI: 10.1007/978-3-642-15220-7_8, 2010. | 5 | 100 | 4 | 5.000 |
| 25 | St. Preitl, R.-E. Precup, M.-L. Tomescu, M.-B. Rădac, E. M. Petriu, C.-A. Dragoş, Model-Based Design Issues in Fuzzy Logic Control, in: Towards Intelligent Engineering and Information Technology, I. J. Rudas, J. Fodor and J. Kacprzyk, Eds., Studies in Computational Intelligence, vol. 243 (Springer-Verlag), pp. 137-152, Print ISBN 978-3-642-03736-8, Online ISBN 978-3-642-03737-5, DOI: 10.1007/978-3-642-03737-5_10, 2009. | 6 | 100 | 4 | 4.167 |
| 26 | R.-E. Precup, St. Preitl, On the Stability and Sensitivity Analysis of Fuzzy Control Systems for Servo-Systems, in: Fuzzy Systems Engineering, Theory and Practice, N. Nedjah and L. de Macedo Mourelle, Eds., Studies in Fuzziness and Soft Computing, vol. 181 (Springer-Verlag), pp. 131-161, Print ISBN 978-3-540-25322-8, Online ISBN 978-3-540-32397-6, DOI: 10.1007/11339366_6, 2005. | 2 | 100 | 4 | 12.500 |
| 27 | St. Preitl, R.-E. Precup, Fuzzy Controllers with Dynamics, a Systematic Design Approach, in: Advances in Automatic Control, M. Voicu, Ed., The Springer International Series in Engineering and Computer Science, vol. 754 (Kluwer Academic Publishers and Springer-Verlag), pp. 283-296, Print ISBN 978-1-4613-4827-6, Online ISBN 978-1-4419-9184-3, DOI: 10.1007/978-1-4419-9184-3_20, 2003. | 2 | 100 | 4 | 12.500 |
| | | | | TOTAL | 299.325 |

A 1.1.2 Naționale

| Nr. crt. | Lucrarea publicată | Nr. autori | Kpi | Capitol | Punctaj |
|---|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 1 | C.-A. Bojan-Dragoş, R.-E. Precup, E.-L. Hedrea, Sisteme de reglare fuzzy cu aplicaţii mecatronice, Editura Politehnica, Timişoara, 162 pp., ISBN 978-606-35-0472-3, 2022. | 3 | 50 | 1 | 16.667 |
| 2 | St. Preitl, R.-E. Precup, Regulatoare pentru servosisteme: metode de proiectare, Editura Orizonturi Universitare, Timişoara, 128 pp., ISBN 973-638-250-8, 978-973-638-250-5, 2007. | 2 | 50 | 1 | 25.000 |
| 3 | R.-E. Precup, Soluţii de conducere fuzzy a sistemelor cu fază neminimă. Aplicaţii la conducerea hidrogeneratoarelor, Editura Orizonturi Universitare, Timişoara, 124 pp., ISBN 973-9400-88-4, 2000. | 1 | 50 | 1 | 50.000 |
| 4 | R.-E. Precup, St. Preitl, Fuzzy Controllers, Editura Orizonturi Universitare, Timişoara, 212 pp., ISBN 973-9400-61-2, 1999. | 2 | 50 | 1 | 25.000 |
| 5 | St. Preitl, R.-E. Precup, Introducere în conducerea FUZZY a proceselor, Editura Tehnică, Bucureşti, 151 pp., ISBN 973-31-1081-1, 1997. | 2 | 50 | 1 | 25.000 |
| | | | | TOTAL | 141.667 |

A1.2.1 Material didactic / Lucrări didactice publicate la edituri cu ISBN

| Nr. crt. | Lucrarea publicată | Nr. autori | Punctaj realizat |
|---|---|---|---|
| 1 | A. Kovács, R.-E. Precup, B. Paláncz, L. Kovács, Modern Numerical Methods in Engineering, Editura Politehnica, Timişoara, 482 pp., ISBN 978-606-554-503-8, 2012. | 4 | 10.000 |
| 2 | St. Preitl, R.-E. Precup, Zs. Preitl, Structuri şi algoritmi pentru conducerea automată a proceselor. Volumul 1, Editura Orizonturi Universitare, Timişoara, 214 pp., ISBN 978-973-638-362-5, 2009. | 3 | 13.333 |
| 3 | St. Preitl, R.-E. Precup, Zs. Preitl, Structuri şi algoritmi pentru conducerea automată a proceselor. Volumul 2, Editura Orizonturi Universitare, Timişoara, 272 pp., ISBN 978-973-638-429-5, 2009. | 3 | 13.333 |
| 4 | R.-E. Precup, Matematici asistate de calculator. Algoritmuri, Editura Orizonturi Universitare, Timişoara, 231 pp., ISBN 978-973-638-345-8, 2007. | 1 | 40.000 |
| 5 | St. Preitl, R.-E. Precup, Elemente de reglare automată. Aplicaţii la sistemele de reglare automată a excitaţiei şi vitezei generatoarelor sincrone, Editura Orizonturi Universitare, Timişoara, 304 pp., ISBN 973-8109-97-3, 2005. | 2 | 20.000 |
| 6 | R.-E. Precup, L. Dragomir, I. Bulaviţchi, Matematici asistate de calculator. Aplicaţii, Editura Politehnica, Timişoara, 298 pp., ISBN 973-8247-68-3, 2002. | 3 | 13.333 |
| 7 | St. Preitl, R.-E. Precup, Introducere în ingineria reglării automate, Editura Politehnica, Timişoara, 334 pp., ISBN 973-8247-77-2, 2001. | 2 | 20.000 |
| 8 | St. Preitl, R.-E. Precup, Automatizări, Editura Orizonturi Universitare, Timişoara, 206 pp., ISBN 973-8109-36-1, 2001. | 2 | 20.000 |
| 9 | St. Preitl, R.-E. Precup, Elemente de metodica predării disciplinelor de automatică şi calculatoare, Editura Orizonturi Universitare, Timişoara, 144 pp., ISBN 973-9400-69-8, 1999. | 2 | 20.000 |
| | | TOTAL | 170.000 |

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ȘI A GRADELOR PROFESIONALE DE CERCETARE-DEZVOLTARE

**Candidat: Radu-Emil Precup**
**Centralizator Standarde minimale necesare si obligatorii**

A2 Activitatea de cercetare

A 2.1 Articole în reviste cotate ISI și lucrări în volumele unor manifestări științifice indexate ISI

| Nr. crt. | Lucrarea publicată | Nr. autori | Factor de impact | Punctaj |
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| 1 | A.-I. Szedlak-Stînean, R.-E. Precup, E. M. Petriu, R.-C. Roman, E.-L. Hedrea, C.-A. Bojan-Dragoş, Extended Kalman filter and Takagi-Sugeno fuzzy observer for a strip winding system, Expert Systems with Applications (Elsevier Science), vol. 208, paper 118215, pp. 1-15, 2022, impact factor (IF) = 8.665, IF according to 2021 Journal Citation Reports (JCR) released by Clarivate Analytics in 2022 = 8.665, DOI: http://dx.doi.org/10.1016/j.eswa.2022.118215, WOS:000891297700001. | 6 | 8.665 | 47.492 |
| 2 | I. A. Zamfirache, R.-E. Precup, R.-C. Roman, E. M. Petriu, Reinforcement learning-based control using Q-learning and gravitational search algorithm with experimental validation on a nonlinear servo system, Information Sciences (Elsevier), vol. 583, pp. 99-120, 2022, impact factor (IF) = 8.233, IF according to 2021 Journal Citation Reports (JCR) released by Clarivate Analytics in 2022 = 8.233, DOI: 10.1016/j.ins.2021.10.070, WOS:000727727800004. | 4 | 8.233 | 67.998 |
| 3 | I. A. Zamfirache, R.-E. Precup, R.-C. Roman, E. M. Petriu, Policy iteration reinforcement learning-based control using a grey wolf optimizer algorithm, Information Sciences (Elsevier), vol. 585, pp. 162-175, 2022, impact factor (IF) = 8.233, IF according to 2021 Journal Citation Reports (JCR) released by Clarivate Analytics in 2022 = 8.233, DOI: 10.1016/j.ins.2021.11.051, WOS:000727771200010. | 4 | 8.233 | 67.998 |

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| 5 | R.-E. Precup, R.-C. Roman, E.-L. Hedrea, C.-A. Bojan-Dragoş, M.-M. Damian, M.-L. Nedelcea, Performance Improvement of Low-Cost Iterative Learning-Based Fuzzy Control Systems for Tower Crane Systems, International Journal of Computers Communications & Control, vol. 17, no. 1, 4623, pp. 1-18, 2022, impact factor (IF) = 2.635, IF according to 2021 Journal Citation Reports (JCR) released by Clarivate Analytics in 2022 = 2.635, DOI: 10.15837/ijccc.2022.1.4623, WOS:000752413400001. | 6 | 2.635 | 17.342 |
| 6 | R.-E. Precup, G. Duca, S. Travin, I. Zinicovscaia, Processing, neural network-based modeling of biomonitoring studies data and validation on Republic of Moldova data, Proceedings of the Romanian Academy, Series A: Mathematics, Physics, Technical Sciences, Information Science, vol. 23, no. 4, pp. 403-410, 2022, impact factor (IF) = 0.734, IF according to 2021 Journal Citation Reports (JCR) released by Clarivate Analytics in 2022 = 0.734, https://acad.ro/sectii2002/proceedings/doc2022-4/10-Precup.pdf, WOS:000911865200010. | 4 | 0.734 | 11.755 |
| 7 | C. Pozna, R.-E. Precup, E. Horvath, E. M. Petriu, Hybrid Particle Filter-Particle Swarm Optimization Algorithm and Application to Fuzzy Controlled Servo Systems, IEEE Transactions on Fuzzy Systems, vol. 30, no. 10, pp. 4286-4297, 2022, impact factor (IF) = 12.253, IF according to 2021 Journal Citation Reports (JCR) released by Clarivate Analytics in 2022 = 12.253, DOI: 10.1109/TFUZZ.2022.3146986, WOS:000864186200025. | 4 | 12.253 | 98.148 |
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| 260 | R.-E. Precup, St. Preitl, P. A, Clep, I.-B. Ursache, J. K. Tar, J. Fodor, Stable Fuzzy Control Systems with Iterative Feedback Tuning, Proceedings of 12th International Conference on Intelligent Engineering Systems INES 2008, Miami, FL, USA, pp. 287-292, 2008, ISBN 978-1-4244-2082-7, DOI: 10.1109/INES.2008.4481309, WOS:000254861100048. | 6 | 0.25 | 5.417 |
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| 263 | R.-E. Precup, St. Preitl, M. L. Tomescu, E. M. Petriu, J. K. Tar, C. Bărbulescu, Stable Iterative Feedback Tuning-based Design of Takagi-Sugeno PI-Fuzzy Controllers (Best Paper Award in the Area of Intelligent Control), Proceedings of 2008 Conference on Human System Interaction HSI 2008, Krakow, Poland, pp. 542-547, 2008, ISSN 1017-4656, ISBN 978-1-4244-1542-7, DOI: 10.1109/HSI.2008.4581497, WOS:000259867600099. | 6 | 0.25 | 5.417 |
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| 289 | R.-E. Precup, St. Preitl, On some predictive and adaptive fuzzy controllers based on ensuring the maximum phase reserve, in: System Structure and Control 1997, Vl. Ionescu and D. Popescu, Eds. (Elsevier Science), pp. 321-326, 1998, ISBN 0-08-043023-6, WOS:000079976400051. | 2 | 0.25 | 16.250 |
| 290 | R.-E. Precup, St. Preitl, St. Kilyeni, B. Lustrea, Fuzzy Speed and Voltage Control of a Hydrogenerator, Preprints of Fifth Symposium on Application of Multivariable System Techniques AMST'94, R. Whalley, Ed. (Mechanical Engineering Publications Limited), London, UK, pp. 151-158, 1994, ISBN 0-85298-828-1, WOS:A1994BB77N00016. | 4 | 0.25 | 8.125 |

| | Factor de impact | Punctaj |
|---|---|---|
| TOTAL | 486.75 | 5982.336 |

Articole ISI în Q1 sau Q2

| Nr. crt. | Lucrarea publicată | Q1/Q2 | Domain |
|---|---|---|---|
| 1 | R.-E. Precup, T.-A. Teban, A. Albu, A.-B. Borlea, I. A. Zamfirache, E. M. Petriu, Evolving fuzzy models for prosthetic hand myoelectric-based control, IEEE Transactions on Instrumentation and Measurement, vol. 69, no. 7, pp. 4625-4636, 2020, impact factor (IF) = 4.016, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 4.016, DOI: 10.1109/TIM.2020.2983531, WOS:000542954500002. | Q1; Q1 | ENGINEERING, ELECTRICAL & ELECTRONIC; INSTRUMENTS & INSTRUMENTATION |
| 2 | R.-E. Precup, S. Preitl, E. M. Petriu, R.-C. Roman, C.-A. Bojan-Dragoş, E.-L. Hedrea, A.-I. Szedlak-Stînean, A center manifold theory-based approach to the stability analysis of state feedback Takagi-Sugeno-Kang fuzzy control systems, Facta Universitatis, Series: Mechanical Engineering (University of Nis), vol. 18, no. 2, pp. 189-204, 2020, impact factor (IF) = 3.324, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 3.324, http://casopisi.junis.ni.ac.rs/index.php/FUMechEng/article/view/6366, WOS:000556543000002. | Q2 | ENGINEERING, MECHANICAL |

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| 3 | M.-B. Rădac, R.-E. Precup, Data-Driven Model-Free Tracking Reinforcement Learning Control with VRFT-based Adaptive Actor-Critic, Applied Sciences (MDPI), vol. 9, no. 9, paper 1807, pp. 1-23, 2019, impact factor (IF) = 2.474, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 2.679, DOI: 10.3390/app9091807, WOS:000469756000086. | Q2; Q2 | CHEMISTRY, MULTIDISCIPLINARY; ENGINEERING, MULTIDISCIPLINARY |
| 4 | A. Albu, R.-E. Precup, T.-A. Teban, Results and Challenges of Artificial Neural Networks Used for Decision-Making in Medical Applications, Facta Universitatis, Series: Mechanical Engineering (University of Nis), vol. 17, no 4, pp. 285-308, 2019, impact factor (IF) = 0.000, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 3.324, http://casopisi.junis.ni.ac.rs/index.php/FUMechEng/article/view/5088, WOS:000500466900001. | Q2 | ENGINEERING, MECHANICAL |
| 5 | M.-B. Rădac, R.-E. Precup, Data-driven MIMO model-free reference tracking control with nonlinear state-feedback and fractional order controllers, Applied Soft Computing (Elsevier), vol. 73, pp. 992-1003, 2018, impact factor (IF) = 4.873, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 6.725, DOI: 10.1016/j.asoc.2018.09.035, WOS:000450124900069. | Q1; Q1 | COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE; COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS |
| 6 | M.-B. Rădac, R.-E. Precup, Data-Driven Model-Free Slip Control of Anti-lock Braking Systems Using Reinforcement Q-Learning, Neurocomputing (Elsevier), vol. 275, pp. 317-329, 2018, impact factor (IF) = 4.072, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 5.719, DOI: 10.1016/j.neucom.2017.08.036, WOS:000418370200031. | Q1 | COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE |
| 7 | M.-B. Rădac, R.-E. Precup, R.-C. Roman, Data-driven model reference control of MIMO vertical tank systems with model-free VRFT and Q-learning, ISA Transactions (Elsevier), vol. 73, pp. 227-238, 2018, impact factor (IF) = 4.343, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 5.468, DOI: 10.1016/j.isatra.2018.01.014, WOS:000427664100021. | Q1; Q1; Q1 | AUTOMATION & CONTROL SYSTEMS; ENGINEERING, MULTIDISCIPLINARY; INSTRUMENTS & INSTRUMENTATION |
| 8 | R.-E. Precup, M.-B. Rădac, R.-C. Roman, E. M. Petriu, Model-Free Sliding Mode Control of Nonlinear Systems: Algorithms and Experiments, Information Sciences (Elsevier Science), vol. 381, pp. 176-192, 2017, impact factor (IF) = 4.305, IF according to 2019 Journal Citation Reports (JCR) released by Clarivate Analytics in 2020 = 5.910, DOI: 0.1016/j.ins.2016.11.026, WOS:000392786000012. | Q1 | COMPUTER SCIENCE, INFORMATION SYSTEMS |
| 9 | R.-E. Precup, R.-C. David, E. M. Petriu, Grey Wolf Optimizer Algorithm-Based Tuning of Fuzzy Control Systems with Reduced Parametric Sensitivity, IEEE Transactions on Industrial Electronics, vol. 64, no. 1, pp. 527-534, 2017, impact factor (IF) = 7.050, IF according to 2019 Journal Citation Reports (JCR) released by Clarivate Analytics in 2020 = 7.515, DOI: 10.1109/TIE.2016.2607698, WOS:000390470600052. | Q1; Q1; Q1 | AUTOMATION & CONTROL SYSTEMS; ENGINEERING, ELECTRICAL & ELECTRONIC; INSTRUMENTS & INSTRUMENTATION |

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| 11 | M.-B. Rădac, <u>R.-E. Precup</u>, R.-C. Roman, Model-free control performance improvement using virtual reference feedback tuning and reinforcement Q-learning, International Journal of Systems Science (Taylor & Francis), vol. 48, no. 5, pp. 1071-1083, 2017, impact factor (IF) = 2.185, IF according to 2019 Journal Citation Reports (JCR) released by Clarivate Analytics in 2020 = 2.149, DOI: 10.1080/00207721.2016.1236423, WOS:000396819200017. | Q2; Q2 | COMPUTER SCIENCE, THEORY & METHODS; OPERATIONS RESEARCH & MANAGEMENT SCIENCE |
| 12 | R.-C. Roman, M.-B. Rădac, <u>R.-E. Precup</u>, E. M. Petriu, Virtual Reference Feedback Tuning of Model-Free Control Algorithms for Servo Systems, Machines (MDPI), vol. 5, no. 4, paper 25, pp. 1-15, 2017, impact factor (IF) = 0.000, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 2.428, DOI: 10.3390/machines5040025, WOS:000415730400005. | Q2 | ENGINEERING, MECHANICAL |
| 13 | <u>R.-E. Precup</u>, St. Preitl, C.-A. Bojan-Dragoş, M.-B. Rădac, A.-I. Szedlak-Stînean, E.-L. Hedrea, R.-C. Roman, Automotive Applications of Evolving Takagi-Sugeno-Kang Fuzzy Models, Facta Universitatis, Series: Mechanical Engineering (University of Nis), vol. 15, no 2, pp. 231-244, 2017, impact factor (IF) = 0.000, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 3.324, DOI: 10.22190/FUME170505011P, WOS:000412407100005. | Q2 | ENGINEERING, MECHANICAL |
| 14 | M.-B. Rădac, <u>R.-E. Precup</u>, Three-level hierarchical model-free learning approach to trajectory tracking control, Engineering Applications of Artificial Intelligence (Elsevier), vol. 55, pp. 103-118, 2016, impact factor (IF) = 2.894, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 6.212, DOI: 10.1016/j.engappai.2016.06.009, WOS:000383811200010. | Q2; Q1; Q1; Q1 | AUTOMATION & CONTROL SYSTEMS; COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE; ENGINEERING, ELECTRICAL & ELECTRONIC; ENGINEERING, MULTIDISCIPLINARY |
| 15 | R.-C. Roman, M.-B. Rădac, <u>R.-E. Precup</u>, Multi-input-multi-output system experimental validation of model-free control and virtual reference feedback tuning techniques, IET Control Theory & Applications, vol. 10, no. 12, pp. 1395-1403, 2016, impact factor (IF) = 2.536, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 3.527, DOI: 10.1049/iet-cta.2016.0028, WOS:000381410000010. | Q2; Q2; Q1 | AUTOMATION & CONTROL SYSTEMS; ENGINEERING, ELECTRICAL & ELECTRONIC; INSTRUMENTS & INSTRUMENTATION |
| 16 | M.-B. Rădac, <u>R.-E. Precup</u>, Model-free constrained data-driven iterative reference input tuning algorithm with experimental validation, International Journal of General Systems (Taylor & Francis), vol. 45, no. 4, pp. 455-476, 2016, impact factor (IF) = 2.490, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 2.08, DOI: 10.1080/03081079.2015.1072524, WOS:000374954200005. | Q2 | COMPUTER SCIENCE, THEORY & METHODS |

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| 17 | M.-B. Rădac, R.-E. Precup, E. M. Petriu, Model-Free Primitive-Based Iterative Learning Control Approach to Trajectory Tracking of MIMO Systems With Experimental Validation, IEEE Transactions on Neural Networks and Learning Systems, vol. 26, no. 11, pp. 2925-2938, 2015, impact factor (IF) = 4.854, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 10.451, DOI: 10.1109/TNNLS.2015.2460258, WOS:000363242800024. | Q1; Q1; Q1; Q1 | COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE; COMPUTER SCIENCE, HARDWARE & ARCHITECTURE; COMPUTER SCIENCE, THEORY & METHODS; ENGINEERING, ELECTRICAL & ELECTRONIC |
| 18 | R.-E. Precup, M.-C. Sabău, E. M. Petriu, Nature-Inspired Optimal Tuning of Input Membership Functions of Takagi-Sugeno-Kang Fuzzy Models for Anti-lock Braking Systems, Applied Soft Computing (Elsevier Science), vol. 27, pp. 575-589, 2015, impact factor (IF) = 2.857, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 6.725, DOI: 10.1016/j.asoc.2014.07.004. WOS:000346856600049. | Q1; Q1 | COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE; COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS |
| 19 | M.-B. Rădac, R.-E. Precup, Data-based two-degree-of-freedom iterative control approach to constrained non-linear systems, IET Control Theory & Applications, vol. 9, no. 7, pp. 1000-1010, 2015, impact factor (IF) = 1.957, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 3.527, DOI: 10.1049/iet-cta.2014.0187, WOS:000353964100002. | Q2; Q2; Q1 | AUTOMATION & CONTROL SYSTEMS; ENGINEERING, ELECTRICAL & ELECTRONIC; INSTRUMENTS & INSTRUMENTATION |
| 20 | R.-E. Precup, M. L. Tomescu, Stable fuzzy logic control of a general class of chaotic systems, Neural Computing and Applications (Springer), vol. 26, no. 3, pp. 541-550, 2015, impact factor (IF) = 1.492, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 5.606, DOI: 10.1007/s00521-014-1644-7, WOS:000351364300005. | Q1 | COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE |
| 21 | R.-E. Precup, P. Angelov, B. S. J. Costa, M. Sayed-Mouchaweh, An overview on fault diagnosis and nature-inspired optimal control of industrial process applications, Computers in Industry (Elsevier), vol. 74, pp. 75-94, 2015, impact factor (IF) = 1.685, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 7.635, DOI: 10.1016/j.compind.2015.03.001, WOS:000364893000007. | Q1 | COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS |
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| 23 | Cl. Pozna, R.-E. Precup, P. Földesi, A novel pose estimation algorithm for robotic navigation, Robotics and Autonomous Systems (Elsevie), vol. 63, pp. 10-21, 2015, impact factor (IF) = 1.618, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 3.12, DOI: 10.1016/j.robot.2014.09.034, WOS:000347507200002. | Q2; Q2; Q2 | AUTOMATION & CONTROL SYSTEMS; COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE; ROBOTICS |

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| 24 | R.-E. Precup, E. M. Petriu, M.-B. Rădac, St. Preitl, L.-O. Fedorovici, C.-A. Dragoş, Cascade control system-based cost effective combination of tensor product model transformation and fuzzy control, Asian Journal of Control (John Wiley and Sons), vol. 17, no. 2, pp. 381-391, 2015, impact factor (IF) = 1.407, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 3.452, DOI: 10.1002/asjc.855, WOS:000351167300003. | Q2 | AUTOMATION & CONTROL SYSTEMS |
| 25 | R.-E. Precup, R.-C. David, E. M. Petriu, St. Preitl, M.-B. Rădac, Iterative Data-Driven Tuning of Controllers for Nonlinear Systems with Constraints, IEEE Transactions on Industrial Electronics, vol. 61, no. 11, pp. 6360-6368, 2014, impact factor (IF) = 6.498, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 8.236, DOI: 10.1109/TIE.2011.2130493, WOS:000302545700002. | Q1; Q1; Q1 | AUTOMATION & CONTROL SYSTEMS; ENGINEERING, ELECTRICAL & ELECTRONIC; INSTRUMENTS & INSTRUMENTATION |
| 26 | R.-E. Precup, R.-C. David, E. M. Petriu, M.-B. Rădac, St. Preitl, Adaptive GSA-Based Optimal Tuning of PI Controlled Servo Systems With Reduced Process Parametric Sensitivity, Robust Stability and Controller Robustness, IEEE Transactions on Cybernetics, vol. 44, no. 11, pp. 1997-2009, 2014, impact factor (IF) = 3.469, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 11.448, DOI: 10.1109/TCYB.2014.2307257, WOS:000343319700002. | Q1; Q1; Q1 | AUTOMATION & CONTROL SYSTEMS; COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE; COMPUTER SCIENCE, CYBERNETICS |
| 27 | R.-E. Precup, H.-I. Filip, M.-B. Rădac, E. M. Petriu, St. Preitl, C.-A. Dragoş, Online Identification of Evolving Takagi-Sugeno-Kang Fuzzy Models for Crane Systems, Applied Soft Computing (Elsevier), vol. 24, pp. 1155-1163, 2014, impact factor (IF) = 2.810, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 6.725, DOI: 10.1016/j.asoc.2014.01.013, WOS:000343138500096. | Q1; Q1 | COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE; COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS |
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| 29 | R.-E. Precup, M.-L. Tomescu, C.-A. Dragoş, Stabilization of Rössler chaotic dynamical system using fuzzy logic control algorithm, International Journal of General Systems (Taylor & Francis), vol. 43, no. 5, pp. 413-433, 2014, impact factor (IF) = 1.637, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 2.08, DOI: 10.1080/03081079.2014.893299, WOS:000333941300001. | Q2 | COMPUTER SCIENCE, THEORY & METHODS |
| 30 | R.-E. Precup, R.-C. David, E. M. Petriu, M.-B. Rădac, St. Preitl, J. Fodor, Evolutionary optimization-based tuning of low-cost fuzzy controllers for servo systems, Knowledge-Based Systems (Elsevier), vol. 38, pp. 74-84, 2013, impact factor (IF) = 3.058, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 8.038, DOI: 10.1016/j.knosys.2011.07.006, WOS:000314382100009. | Q1 | COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE |

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| 32 | M.-B. Rădac, R.-E. Precup, E. M. Petriu, St. Preitl, C.-A. Dragoş, Data-driven reference trajectory tracking algorithm and experimental validation, IEEE Transactions on Industrial Informatics, vol. 9, no. 4, pp. 2327-2336, 2013, impact factor (IF) = 8.785, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 10.215, DOI: 10.1109/TII.2012.2220973, WOS:000326113700052. | Q1; Q1; Q1 | AUTOMATION & CONTROL SYSTEMS; COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS; ENGINEERING, INDUSTRIAL |
| 33 | R.-E. Precup, M.-B. Rădac, M. L. Tomescu, E. M. Petriu, St. Preitl, Stable and convergent iterative feedback tuning of fuzzy controllers for discrete-time SISO systems, Expert Systems with Applications (Elsevier), vol. 40, no. 1, pp. 188-199, 2013, impact factor (IF) = 1.965, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 6.954, DOI: 10.1016/j.eswa.2012.07.023, WOS:000309378200018. | Q1; Q1; Q1 | COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE; ENGINEERING, ELECTRICAL & ELECTRONIC; OPERATIONS RESEARCH & MANAGEMENT SCIENCE |
| 34 | R.-E. Precup, R.-C. David, E. M. Petriu, St. Preitl, M.-B. Rădac, Fuzzy logic-based adaptive gravitational search algorithm for optimal tuning of fuzzy controlled servo systems, IET Control Theory & Applications, vol. 7, no. 1, pp. 99-107, 2013, impact factor (IF) = 1.844, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 3.527, DOI: 10.1049/iet-cta.2012.0343, WOS:000318229100010. | Q2; Q2; Q1 | AUTOMATION & CONTROL SYSTEMS; ENGINEERING, ELECTRICAL & ELECTRONIC; INSTRUMENTS & INSTRUMENTATION |
| 35 | R.-E. Precup, R.-C. David, E. M. Petriu, St. Preitl, M.-B. Rădac, Fuzzy control systems with reduced parametric sensitivity based on simulated annealing, IEEE Transactions on Industrial Electronics, vol. 59, no. 8, pp. 3049-3061, 2012, impact factor (IF) = 5.165, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 8.236, DOI: 10.1109/TIE.2011.2130493, WOS:000302545700002. | Q1; Q1; Q1 | AUTOMATION & CONTROL SYSTEMS; ENGINEERING, ELECTRICAL & ELECTRONIC; INSTRUMENTS & INSTRUMENTATION |
| 36 | R.-E. Precup, M. L. Tomescu, M.-B. Rădac, E. M. Petriu, St. Preitl, C.-A. Dragoş, Iterative performance improvement of fuzzy control systems for three tank systems, Expert Systems with Applications (Elsevier), vol. 39, no. 9, pp. 8288-8299, 2012, impact factor (IF) = 1.854, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 6.954, 10.1016/j.eswa.2012.01.165, WOS:000303281600070. | Q1; Q1; Q1 | COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE; ENGINEERING, ELECTRICAL & ELECTRONIC; OPERATIONS RESEARCH & MANAGEMENT SCIENCE |
| 37 | Cl. Pozna, N. Minculete, R.-E. Precup, L. T. Kóczy, Á. Ballagi, Signatures: Definitions, operators and applications to fuzzy modeling, Fuzzy Sets and Systems (Elsevier), vol. 201, pp. 86-104, 2012, impact factor (IF) = 1.749, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 3.343, DOI: 10.1016/j.fss.2011.12.016, WOS:000306050200006. | Q1; Q1; Q1 | COMPUTER SCIENCE, THEORY & METHODS; MATHEMATICS, APPLIED; STATISTICS & PROBABILITY |

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| 39 | N. Minculete, Cl. Pozna, R.-E. Precup, A refinement of Sandor-Toth's inequality, Journal of Inequalities and Applications (SpringerOpen), 2012: 4, pp. 1-16, 2012, impact factor (IF) = 0.820, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 2.491, DOI: 10.1186/1029-242X-2012-4, WOS:000301521600001. | Q2; Q1 | MATHEMATICS, APPLIED; MATHEMATICS |
| 40 | R.-E. Precup, C.-A. Dragoş, St. Preitl, M.-B. Rădac, E. M. Petriu, Novel tensor product models for automatic transmission system control, IEEE Systems Journal, vol. 6, no. 3, pp. 488-498, 2012, impact factor (IF) = 1.270, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 3.931, DOI: 10.1109/JSYST.2012.2190692, WOS:000308020800014. | Q1; Q1; Q1; Q2 | COMPUTER SCIENCE, INFORMATION SYSTEMS; ENGINEERING, ELECTRICAL & ELECTRONIC; OPERATIONS RESEARCH & MANAGEMENT SCIENCE; TELECOMMUNICATIONS |
| 41 | T. Haidegger, L. Kovács, R.-E. Precup, B. Benyó, Z. Benyó, St. Preitl, Simulation and control for telerobots in space medicine, Acta Astronautica (Elsevier), vol. 181, no. 1, pp. 390-402, 2012, impact factor (IF) = 0.701, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 2.413, DOI: 10.1016/j.actaastro.2012.06.010, WOS:000309568900036. | Q1 | ENGINEERING, AEROSPACE |
| 42 | R.-E. Precup, T. Haidegger, St. Preitl, Z. Benyó, A. S. Paul, L. Kovács, Fuzzy control solution for telesurgical applications, Applied and Computational Mathematics (Ministry of Communications and Information Technology, Azerbaijan National Academy of Sciences and Institute of Applied Mathematics of Baku State University), vol. 11, no. 3, pp. 378-397, 2012, impact factor (IF) = 0.750, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 3.898, http://acmij.az/view.php?lang=az&menu=cjournal&id=289, WOS:000310827500006. | Q1 | MATHEMATICS, APPLIED |
| 43 | M.-B. Rădac, R.-E. Precup, E. M. Petriu, St. Preitl, Application of IFT and SPSA to servo system control, IEEE Transactions on Neural Networks, vol. 22, no. 12, part 2, pp. 2363-2375, 2011, impact factor (IF) = 2.952, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 10.451 (IEEE Transactions on Neural Networks and Learning Systems starting with 2012), DOI: 10.1109/TNN.2011.2173804, WOS:000299082900018. | Q1; Q1; Q1; Q1 | COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE; COMPUTER SCIENCE, HARDWARE & ARCHITECTURE; COMPUTER SCIENCE, THEORY & METHODS; ENGINEERING, ELECTRICAL & ELECTRONIC |

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| 44 | R.-E. Precup, H. Hellendoorn, A survey on industrial applications of fuzzy control, Computers in Industry (Elsevier), vol. 62, no. 3, pp. 213-226, 2011, impact factor (IF) = 1.529, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 7.635, DOI: 10.1016/j.compind.2010.10.001, WOS:000289183900001. | Q1 | COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS |
| 45 | Cl. Pozna, F. Troester, R.-E. Precup, J. K. Tar, St. Preitl, On the Design of an Obstacle Avoiding Trajectory: Method and Simulation, Mathematics and Computers in Simulation (Elsevier), vol. 79, no. 7, pp. 2211-2226, 2009, impact factor (IF) = 0.946, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 2.463, DOI: 10.1016/j.matcom.2008.12.015, WOS:000264918200017. | Q1 | COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE |
| 46 | R.-E. Precup, St. Preitl, E. M. Petriu, J. K. Tar, M. L. Tomescu, Cl. Pozna, Generic two-degree-of-freedom linear and fuzzy controllers for integral processes, Journal of The Franklin Institute (Elsevier), vol. 346, no. 10, pp. 980-1003, 2009, impact factor (IF) = 1.130, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 4.504, DOI: 10.1016/j.jfranklin.2009.03.006, WOS:000271682500004. | Q2; Q2 | COMPUTER SCIENCE, SOFTWARE ENGINEERING; MATHEMATICS, APPLIED |
| 47 | R.-E. Precup, St. Preitl, J. K. Tar, M. L. Tomescu, M. Takács, P. Korondi, P. Baranyi, Fuzzy Control System Performance Enhancement by Iterative Learning Control, IEEE Transactions on Industrial Electronics, vol. 55, no. 9, pp. 3461-3475, 2008, impact factor (IF) = 5.468, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 8.236, DOI: 10.1109/TIE.2008.925322, WOS:000258949600031. | Q2; Q1; Q1; Q1 | AUTOMATION & CONTROL SYSTEMS; ENGINEERING, ELECTRICAL & ELECTRONIC; ENGINEERING, MULTIDISCIPLINARY; MATHEMATICS, INTERDISCIPLINARY APPLICATIONS |
| 48 | R.-E. Precup, St. Preitl, I. J. Rudas, M. L. Tomescu, J. K. Tar, Design and Experiments for a Class of Fuzzy Controlled Servo Systems, IEEE/ASME Transactions on Mechatronics, vol. 13, no. 1, pp. 22-35, 2008, impact factor (IF) = 1.614, IF according to 2019 Journal Citation Reports (JCR) released by Clarivate Analytics in 2020 = 5.673, DOI: 10.1109/TMECH.2008.915816, WOS:000253840800004. | Q1; Q1; Q2; Q1 | AUTOMATION & CONTROL SYSTEMS; ENGINEERING, ELECTRICAL & ELECTRONIC; ENGINEERING, MANUFACTURING; ENGINEERING, MECHANICAL |
| 49 | R.-E. Precup, St. Preitl, PI-Fuzzy Controllers for Integral Plants to Ensure Robust Stability, Information Sciences (Elsevier), vol. 177, no. 20, pp. 4410-4429, 2007, impact factor (IF) = 2.147, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 6.795, DOI: 10.1016/j.ins.2007.05.005, WOS:000249068300011. | Q1 | COMPUTER SCIENCE, INFORMATION SYSTEMS |
| 50 | R.-E. Precup, St. Preitl, P. Korondi, Fuzzy Controllers with Maximum Sensitivity for Servosystems, IEEE Transactions on Industrial Electronics, vol. 54, no. 3, pp. 1298-1310, 2007, impact factor (IF) = 2.216, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 8.236, DOI: 10.1109/TIE.2007.893053, WOS:000247203000005. | Q1; Q1; Q1 | AUTOMATION & CONTROL SYSTEMS; ENGINEERING, ELECTRICAL & ELECTRONIC; INSTRUMENTS & INSTRUMENTATION |

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| 52 | R.-E. Precup, St. Preitl, G. Faur, PI Predictive Fuzzy Controllers for Electrical Drive Speed Control: Methods and Software for Stable Development, Computers in Industry (Elsevier), vol. 52, no. 3, pp. 253-270, 2003, impact factor (IF) = 0.692, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 7.635, DOI: 10.1016/S0166-3615(03)00130-1, WOS:000186771300005. | Q1 | COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS |
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| 54 | St. Preitl, R.-E. Precup, An Extension of Tuning Relations after Symmetrical Optimum Method for PI and PID Controllers, Automatica (Elsevier), vol. 35, no. 10, pp. 1731-1736, 1999, impact factor (IF) = 0.911, IF according to 2020 Journal Citation Reports (JCR) released by Clarivate Analytics in 2021 = 5.944, DOI: 10.1016/S0005-1098(99)00091-6, WOS:000082781800013. | Q1; Q1 | AUTOMATION & CONTROL SYSTEMS; ENGINEERING, ELECTRICAL & ELECTRONIC |

RAMURA DE ȘTIINȚĂ: CALCULATOARE, TEHNOLOGIA INFORMAȚIEI ȘI INGINERIA SISTEMELOR
(COMISIA 15)
STANDARDE MINIMALE ȘI OBLIGATORII PENTRU CONFERIREA TITLURILOR DIDACTICE DIN ÎNVĂȚĂMÂNTUL SUPERIOR
ȘI A GRADELOR PROFESIONALE DE CERCETARE-DEZVOLTARE

**Candidat: Radu-Emil Precup**
**Centralizator Standarde minimale necesare si obligatorii**

A2 Activitatea de cercetare

A 2.2 Articole în reviste și lucrări în volumele unor manifestări științifice indexate în alte baze de date internaționale recunoscute (BDI)

| Nr. crt. | Lucrarea publicată | BDI | Nr. autori | Punctaj |
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| 1 | G. Rigatos, P. Siano, D. Selişteanu, R. E. Precup, Nonlinear Optimal Control of Oxygen and Carbon Dioxide Contents in Blood, Intelligent Industrial Systems (Springer-Verlag), vol. 3, no. 2, pp. 61-75, 2017, DOI: 10.1007/s40903-016-0060-y. | Springer Link | 4 | 5.000 |
| 2 | R.-E. Precup, C.-A. Bojan-Dragoş, E. M. Petriu, M.-B. Rădac, A.-I. Stînean, Results on Optimal Tuning of Fuzzy Models of Magnetic Levitation Systems, International Journal of Artificial Intelligence (CESER Publications), vol. 13, no. 2, pp. 57-72, 2015, ISSN 0974-0635, http://www.ceser.in/ceserp/index.php/ijai/article/view/3872. | Scopus | 5 | 4.000 |
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| 4 | R.-C. David, C.-A. Dragoş, R.-G. Bulzan, R.-E. Precup, E. M. Petriu, M.-B. Rădac, An approach to fuzzy modeling of magnetic levitation systems, International Journal of Artificial Intelligence (CESER Publications), vol. 9, no. A12, pp. 1-18, 2012, ISSN 0974-0635, http://www.ceser.in/ceserp/index.php/ijai/article/view/2334. | Scopus | 6 | 3.333 |
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| 6 | T. Haidegger, L. Kovács, St. Preitl, R.-E. Precup, B. Benyó, Z. Benyó, Controller design solutions for long distance telesurgical applications, International Journal of Artificial Intelligence (CESER Publications), vol. 6, no. S11, pp. 48-71, 2011, ISSN 0974-0635, http://www.ceser.in/ceserp/index.php/ijai/article/view/2275. | Scopus | 6 | 3.333 |

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| 7 | R.-E. Precup, M.-L. Tomescu, E. M. Petriu, L.-E. Dragomir, Stable fuzzy logic control of generalized van der Pol oscillator, International Journal of Artificial Intelligence (CESER Publications), vol. 7, no. A11, pp. 36-46, 2011, ISSN 0974-0635, http://www.ceser.in/ceserp/index.php/ijai/article/view/2275. | Scopus | 4 | 5.000 |
| 8 | R.-E. Precup, M. L. Tomescu, St. Preitl, E. M. Petriu, Fuzzy logic-based stabilization of a magnetic ball suspension system, International Journal of Artificial Intelligence (CESER Publications), vol. 5, no. A10, pp. 56-66, 2010, ISSN 0974-0635, http://www.ceser.in/ceserp/index.php/ijai/article/view/2202. | Scopus | 4 | 5.000 |
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| 69 | K. J. Burnham, B. Vinsonneau, R.-E. Precup, St. Preitl, On the Errors-in-Variables Extended Kalman Filter, IEEE International Joint Conferences on Computational Cybernetics and Technical Informatics ICCC-CONTI 2010, Timişoara, Proceedings, ISBN 978-1-4244-7432-5, pp. 413-418, 2010, DOI: 10.1109/ICCCYB.2010.5491236. | IEEE Xplore | 4 | 5.000 |
| 70 | A.-S. Paul, R.-E. Precup, Cl. Pozna, R.-C. David, nDSP: A Platform for Audiophile Software Audio Processing, IEEE International Joint Conferences on Computational Cybernetics and Technical Informatics ICCC-CONTI 2010, Timişoara, Proceedings, ISBN 978-1-4244-7432-5, pp. 431-436, 2010, DOI: 10.1109/ICCCYB.2010.5491235. | IEEE Xplore | 4 | 5.000 |
| 71 | R.-E. Precup, St. Preitl, K. J. Burnham, B. Vinsonneau, Virtual Reference Feedback Tuning Approach to Fuzzy Control Systems Development, IFAC-PapersOnLine, ISSN 1474-6670, First IFAC Workshop on Convergence of Information Technologies and Control Methods with Power Plants and Power Systems ICPS'07, editor: P. Dobra, no. 39506, pp. 123-128, 2008, DOI: 10.3182/20070709-3-RO-4910.00019. | Scopus | 4 | 5.000 |
| 72 | St. Preitl, R.-E. Precup, Zs. Preitl, S. Vaivoda, St. Kilyeni, J. K. Tar, Iterative Feedback and Learning Control. Servosystems Applications, IFAC-PapersOnLine, ISSN 1474-6670, First IFAC Workshop on Convergence of Information Technologies and Control Methods with Power Plants and Power Systems ICPS'07, editor: P. Dobra, no. 39491, pp. 16-27, 2008, DOI: 10.3182/20070709-3-RO-4910.00004. | Scopus | 6 | 3.333 |
| 73 | R.-E. Precup, St. Preitl, Zs. Preitl, Fuzzy Control Solution for a Class of Tricycle Mobile Robots, Proceedings of 3rd IEEE International Conference on Mechatronics ICM 2006, Budapest, Hungary, pp. 203-208, 2006, E-ISBN 0-7803-9713-4, Print ISBN 0-7803-9712-6, DOI: 10.1109/ICMECH.2006.252525. | IEEE Xplore | 3 | 6.667 |
| 74 | R.-E. Precup, St. Preitl, Development of a Quasi-PI Fuzzy Controller Based on the Principle of Minimum Guaranteed Phase Margin, "Proceedings of the 14th World Congress. International Federation of Automatic Control", editors: H.-F. Chen, D.-Z. Cheng, J.-F. Zhang, ISBN 0-08-043222-0, Elsevier Science, 1999, vol. 12, pp. 183-188. | INSPEC | 2 | 10.000 |
| 75 | St. Preitl, R.-E. Precup, St. Kilyeni, Variable Structure Fuzzy Controllers for Speed and Voltage Control of Synchronous Generators, 34th Universities Power Engineering Conference UPEC'99, Leicester (Anglia), Proceedings, vol. 1, 1999, pp. 185-188. | Scopus | 3 | 6.667 |
| 76 | R.-E. Precup, St. Preitl, Two-level Fuzzy Control of a Hydrogenerator, 32nd Universities Power Engineering Conference UPEC'97, Proceedings, Manchester (Anglia), vol. 1, 1997, pp. 539-542. | Scopus | 2 | 10.000 |
| 77 | R.-E. Precup, St. Preitl, Stability Analysis of Minimum- and Nonminimum- Phased Fuzzy Control Systems, Fourth European Congress on Intelligent Techniques and Soft Computing EUFIT'96, Proceedings, editor: H.-J. Zimmermann, Verlag Mainz, ISBN 3-89653-187-5, Aachen (Germania), vol. 2, 1996, pp. 1065-1069. | INSPEC | 2 | 10.000 |

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|---|---|
| TOTAL | 383.976 |

RAMURA DE ȘTIINȚĂ: CALCULATOARE, TEHNOLOGIA INFORMAȚIEI ȘI INGINERIA SISTEMELOR
(COMISIA 15)
STANDARDE MINIMALE ȘI OBLIGATORII PENTRU CONFERIREA TITLURILOR DIDACTICE DIN ÎNVĂȚĂMÂNTUL SUPERIOR
ȘI A GRADELOR PROFESIONALE DE CERCETARE-DEZVOLTARE

**Candidat: Radu-Emil Precup**

**Centralizator Standarde minimale necesare si obligatorii**

A 2.3 Proprietate intelectuala, brevete de inventie, certificate ORDA
A 2.3.1 Internaționale

| Nr. crt. | Nume brevet | Nr. Autori | Punctaj |
|----------|-------------|------------|---------|
| 1 | Formula =35/C14 | | |
| 2 | | | |
| | | TOTAL | 0 |

A 2.4.1.2 Naționale

| Nr. crt. | Nume brevet | Nr. Autori | Punctaj |
|----------|-------------|------------|---------|
| 1 | R.-E. Precup, C.-A. Dragoș, M.-B. Rădac, Software înregistrat la O.R.D.A. sub numărul 3112/04.04.2013, "Metodologie și programe pentru dezvoltarea și simularea sistemelor fuzzy de tip Takagi-Sugeno cu timp continuu, SIM-FUZZY-TC". | 3 | 8.333 |
| 2 | R.-E. Precup, C.-A. Dragoș, M.-B. Rădac, Software înregistrat la O.R.D.A. sub numărul 5121/06.06.2013, "Metodologie și programe pentru dezvoltarea și simularea sistemelor fuzzy de tip Takagi-Sugeno cu timp discret, SIM-FUZZY-TD". | 3 | 8.333 |
| | | TOTAL | 16.667 |

RAMURA DE ȘTIINȚĂ: CALCULATOARE, TEHNOLOGIA INFORMAȚIEI ȘI INGINERIA SISTEMELOR
(COMISIA 15)
STANDARDE MINIMALE ȘI OBLIGATORII PENTRU CONFERIREA TITLURILOR DIDACTICE DIN ÎNVĂȚĂMÂNTUL SUPERIOR
ȘI A GRADELOR PROFESIONALE DE CERCETARE-DEZVOLTARE

**Candidat: Radu-Emil Precup**

**Centralizator Standarde minimale necesare si obligatorii**

A 2.4 Granturi/proiecte de cercetare câștigate prin competiție
A 2.4.1 Director/responsabil partener
A 2.4.1.1 Internaționale

| Nr. crt. | Grantul/proiectul | Nr. ani | Punctaj |
|---|---|---|---|
| 1 | New results in development and applications of fuzzy control systems, Protocol of the Third Meeting of the Joint Committee for Scientific and Technological Co-operation between Romania and the Republic of Slovenia / 11.12.2007-24.12.2007; ID no 3 in Annex 1; Programul CAPACITATI din cadrul PN II, Modul III, Proiect bilateral România-Slovenia, 2008 – 2009, MEdCT România, MCT Slovenia, directori: R.-E. Precup (UPT), assoc.prof.dr. Igor Skrjanc (University of Ljubljana), valoare: 8000 EUR / an. | 2 | 40 |
| | | TOTAL | 40 |

A 2.4.1.2 Naționale

| Nr. crt. | Grantul/proiectul | Nr. ani | Punctaj |
|---|---|---|---|
| 1 | Reglare fuzzy data-driven cu validare experimentală (Data-driven fuzzy control with experimental validation), contract nr. 192 / 19.02.2021, Programul IDEI, Proiecte de cercetare exploratorie, cod proiect PN-III-P4-ID-PCE-2020-0269, 2021 - 2023, UEFISCDI, director: R.-E. Precup, valoare: 1197286 lei lei. | 2 | 20 |
| 2 | Sistem de conducere avansată a unei instalaţii de tip biorafinărie (Advanced control system of a biorefinery plant), contract nr. 269 / 2014, Programul Parteneriate în domeniile prioritare, Proiecte Colaborative de Cercetare Aplicativă, cod proiect PN-II-PT-PCCA-2013-4-0070, 2014 - 2017, UEFISCDI, responsabil de proiect al partenerului Universitarea Politehnica Timişoara: R.-E. Precup, director: prof.dr.ing. S. Caraman (Universitatea "Dunărea de Jos" din Galaţi), valoare: 1449040 lei, valoare UPT: 75000 lei. | 3 | 30 |
| 3 | Sisteme de conducere avansată a unor bioprocese din industria alimentară (Advanced control systems for bioprocesses in food industry), contract nr. 211 / 2014, Programul Parteneriate în domeniile prioritare, Proiecte Colaborative de Cercetare Aplicativă, cod proiect PN-II-PT-PCCA-2011-3.2-0732, 2014 - 2017, UEFISCDI, responsabil de proiect al partenerului Universitarea Politehnica Timişoara: R.-E. Precup, director: prof.dr.ing. D. Selişteanu (Universitatea din Craiova), valoare: 1207500 lei, valoare UPT: 200000 lei. | 3 | 30 |
| 4 | Produse software bazate pe algoritmi de inteligenţă artificială cu aplicaţii în modelarea şi optimizarea sistemelor chimice (Software products based on artificial intelligence algorithms applied to modelling and optimization of chemical systems), contract nr. 23 / 2012, Programul Parteneriate în domeniile prioritare, Proiecte Colaborative de Cercetare Aplicativă, cod proiect PN-II-PT-PCCA-2011-3.2-0732, 2012 - 2016, CNDI - UEFISCDI, responsabil de proiect al partenerului Universitarea Politehnica Timişoara: R.-E. Precup, director: prof.dr.ing. S. Curteanu (Universitatea Tehnică "Gheorghe Asachi" din Iaşi), valoare: 1580081 lei, valoare UPT: 400000 lei. | 4 | 40 |
| 5 | Noi tehnici de îmbunătăţire a performanţelor sistemelor de reglare automată utilizand acordarea parametrilor bazata pe experimente (New performance improvement techniques of control systems using experiment-based tuning), contract nr. 167 / 05.10.2011, Programul IDEI, Proiecte de cercetare exploratorie, cod proiect PN-II-ID-PCE-2011-3-0109, 2011 - 2016, CNCS - UEFISCDI, director: R.-E. Precup, valoare: 1461600 lei | 5 | 50 |

| | | | |
|---|---|---|---|
| 6 | Tehnologii informatice de timp real pentru sistemele încorporate care asigură controlul lanţului de transmisie a puterii la autovehicule, acronim SICONA, contract nr. 12100 / 01.10.2008, Programul "Parteneriate în domeniile prioritare" din cadrul PN II, 2008 - 2011, Centrul Naţional de Management Programe – CNMP, responsabil de proiect al partenerului Universitarea "Politehnica" din Timişoara: R.-E. Precup, director: prof.dr.ing. C. Lazăr (Universitatea Tehnică "Gheorghe Asachi" din Iaşi), valoare: 2000000 lei, valoare UPT: 469126 lei | 3 | 30 |
| 7 | Dezvoltarea unor noi structuri de regulatoare fuzzy pentru sisteme încorporate utilizând algoritmi de tip Iterative Feedback Tuning, contract CNCSIS de tip A, CNCSIS – MEdC (2006), CNCSIS - MEdCT (2007), contract nr. 2739, tema 15, cod CNCSIS 366, 2006, contract nr. GR76, tema 31, cod CNCSIS 366, 2007, director: R.-E. Precup, valoare: 29400 lei (2006) + 31900 lei (2007). | 2 | 20 |
| 8 | Dezvoltarea unor noi structuri de regulatoare fuzzy bazate pe teoria sensibilităţii, contract CNCSIS de tip A, CNCSIS - MEdC (2004), contraact nr. 32940, tema 19, 2004, contract nr. 32940, tema T25, continuare 2005, director: R.-E. Precup, valoare: 201500000 ROL (2004) + 27000 lei (2005). | 2 | 20 |
| | | TOTAL | 240 |

## A 2.4.2 Membru în echipă
### A 2.4.2.1 Internaționale

| Nr. crt. | Grantul/proiectul | Nr. ani | Punctaj |
|---|---|---|---|
| 1 | Integration of Iterative Learning Control (ILC) and Fuzzy Methods in Intelligent Control Systems, Protocol of the 4th Meeting of the Romanian-Hungarian Intergovernmental Committee on Cooperation in Science and Technology / 18.02.2008; RO ID 39 in Annex 2, Programul CAPACITATI din cadrul PN II, Modul III, Proiect bilateral România-Ungaria, 2008 - 2009, MEdCT România, MCT Ungaria, directori: prof.dr.ing. St. Preitl (UPT), prof.dr. Janos Fodor (Budapest Tech Polytechnical Institution), valoare: 8000 EUR / an. | 2 | 8 |
| 2 | Analysis and development of intelligent systems, contract nr. C18001 / 09.01.2006, poziţia 35 ID no 17, 2006 - 2007, MEdC România, MCT Ungaria, directori: prof.dr.ing. St. Preitl (UPT), prof.dr. Janos Fodor (Budapest Tech Polytechnical Institution), valoare: 8000 EUR / an. | 2 | 8 |
| 3 | Nonlinear systems and control in the field of power electronics (Conducerea sistemelor neliniare în domeniul convertoarelor de putere), contract nr. C18051 / 26.03.2003, poziţia 16 – Ro 18/2002, 2003 - 2005, MEdC România, MCT Ungaria, directori: prof.dr.ing. St. Preitl (UPT), acad.dr.ing. Istvan Nagy (Universitatea Tehnică şi Economică din Budapesta), valoare: 8000 EUR / an. | 2 | 8 |
| | | TOTAL | 24 |

### A 2.4.2.2 Naționale

| Nr. crt. | Grantul/proiectul | Nr. ani | Punctaj |
|---|---|---|---|
| 1 | Dynamics of hypercomplex-valued neural networks (DHVNN), Proiect postdoctoral, cod proiect PN-III-P1-1.1-PD-2021-03, 2022-2023, UEFISCDI, director: conf.dr.ing. Călin-Adrian Popa, valoare: 160000 lei. | 1 | 2 |
| 2 | IMproving the PREdiction of opinion dynamics in temporal Social networks: Mathematical modeling and Simulation framework (IMPRESS), Proiect postdoctoral, cod proiect PN-III-P1-1.1-PD-2016-0193, 2018-2019, UEFISCDI, director: ş.l.dr.ing. A. Topîrceanu, valoare: 178215 lei. | 2 | 4 |
| 3 | NONlinear OBServers-based control structures applied to MEChatronics Systems (NOBSMECS), Proiect postdoctoral, cod proiect, PN-III-P1-1.1-PD-2016-0331, 2018-2019, UEFISCDI, director: ş.l.dr.ing. A.-I. Szedlak-Stînean, valoare: 220169 lei. | 2 | 4 |
| 4 | Tehnici de învăţare pentru îmbunătăţirea performanţelor sistemelor de conducere automată folosind abordări de tip model-free, contract nr. 130/01.10.2015, Programul Resurse umane, Proiecte de cercetare pentru stimularea constituirii de tinere echipe de cercetare independente, cod proiect PNII-RU-TE-2014-4-0207, 2015 - 2017, UEFISCDI, director: ş.l.dr.ing. M.-B. Rădac, valoare: 365705 lei. | 3 | 6 |

| | | | |
|---|---|---|---|
| 5 | Model experimental pentru un compensator capacitiv automat destinat îmbunătăţirii factorului de putere şi echilibrării sarcinii în reţelele electrice de distribuţie de joasă tensiune (CAEREDJT), contract nr. 48 / 2014, Programul Parteneriate în domeniile prioritare, Proiecte Colaborative de Cercetare Aplicativă, cod proiect PN-II-PT-PCCA-2013-4-1083, 2014 - 2016, UEFISCDI, director: conf.dr.ing. A. Pană (Universitarea Politehnica Timişoara), valoare: 600000 lei. | 3 | 6 |
| 6 | Cercetări în designul şi implementarea unor soluţii moderne pentru securitatea informaţiei în sisteme distribuite, SCADA, DCS şi de control la distanţă cu aplicaţii în distribuţia gazelor, cod CNCSIS ID_940, Programul IDEI, Proiecte de cercetare exploratorie, 2009 - 2011, UEFISCSU - MedCI, director: prof.dr.ing. I. Silea, valoare: 254380 lei. | 2 | 4 |
| 7 | Cercetări privind noi sisteme cognitive bazate pe experimentarea relaţiilor cauzale, cod CNCSIS ID_842, Programul IDEI, Proiecte de cercetare exploratorie, 2009 - 2011, UEFISCSU - MedCI, director: conf.dr.ing. Cl. Pozna (Universitatea Transilvania din Braşov), valoare: 927639 lei. | 2 | 4 |
| 8 | Sisteme integrate de conducere în timp real în reţea a proceselor, acronim SICOTIR, contract nr. 71084 / 14.09.2007, Programul "Parteneriate în domeniile prioritare" din cadrul PN II, 2007 - 2010, Centrul Naţional de Management Programe – CNMP, director: prof.dr.ing. C. Ionete (Universitatea din Craiova), responsabil partener UPT: prof.dr.ing. I. Silea, valoare: 2000000 lei. | 3 | 6 |
| 9 | Analiza şi dezvoltarea sistemelor de conducere inteligentă cu regulatoare fuzzy dedicate servosistemelor, contract CNCSIS de tip A, nr. 46GR, tema 9, cod CNCSIS 366, 2007, contract nr. 98GR, tema 14, cod CNCSIS 370, 2008, CNCSIS - MEdCT, director: prof.dr.ing. St. Preitl, valoare: 58800 lei (2007) + 63800 lei (2008). | 2 | 4 |
| 10 | Analiza şi dezvoltarea sistemelor de conducere inteligentă cu regulatoare fuzzy dedicate servosistemelor, contract CNCSIS de tip A, nr. 46GR, tema 9, cod CNCSIS 366, 2007, contract nr. 98GR, tema 14, cod CNCSIS 370, 2008, CNCSIS - MEdCT, director: prof.dr.ing. St. Preitl, valoare: 58800 lei (2007) + 63800 lei (2008). | 2 | 4 |
| 11 | Dezvoltarea unor noi structuri de conducere şi metode de proiectare a regulatoarelor pentru sisteme de poziţionare, contract CNCSIS de tip A, contract nr. 32940, tema 20, 2004, CNCSIS - MEdC, contract nr. 32940, tema T26, continuare 2005, director: prof.dr.ing. St. Preitl, valoare: 150000000 ROL (2004) + 22000 lei (2005). | 2 | 4 |
| 12 | Stabilitatea tranzitorie şi stabilitatea tensiunii în sisteme electroenergetice, contract nr. 36, 1998, CNCSIS - Banca Mondială, director: prof.dr.ing. St. Kilyeni, valoare: 50000 USD. | 1 | 2 |
| 13 | Sisteme inteligente de conducere a proceselor, contract nr. 44034 (37), 1998, CNCSIS - Banca Mondială, director: prof.dr.ing. I. Dumitrache, valoare: 170000 USD. | 1 | 2 |
| | | TOTAL | 52 |

RAMURA DE ȘTIINȚĂ: CALCULATOARE, TEHNOLOGIA INFORMAȚIEI ȘI INGINERIA SISTEMELOR
(COMISIA 15)
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ȘI A GRADELOR PROFESIONALE DE CERCETARE-DEZVOLTARE

**Candidat: Radu-Emil Precup**
**Centralizator Standarde minimale necesare si obligatorii**

A3 Recunoașterea și impactul activității
A 3.1 Citări în cărți, reviste și volume ale unor manifestări științifice
A 3.1.1 Cărți, ISI

| Nr. crt. | Nr. citări indep. | Cuartila | Lucrarea citată | Nr. autori lucrare citată | Punctaj |
|---|---|---|---|---|---|
| 1 | 269 | | R.-E. Precup, H. Hellendoorn, A survey on industrial applications of fuzzy control, Computers in Industry (Elsevier Science), vol. 62, no. 3, pp. 213-226, 2011, DOI: 10.1016/j.compind.2010.10.001. | 2 | 1076 |
| 2 | 59 | | St. Preitl, R.-E. Precup, An Extension of Tuning Relations after Symmetrical Optimum Method for PI and PID Controllers, Automatica (Elsevier Science), vol. 35, no. 10, pp. 1731-1736, 1999, DOI: 10.1016/S0005-1098(99)00091-6. | 2 | 236 |
| 3 | 95 | | R.-E. Precup, R.-C. David, E. M. Petriu, Grey Wolf Optimizer Algorithm-Based Tuning of Fuzzy Control Systems with Reduced Parametric Sensitivity, IEEE Transactions on Industrial Electronics, vol. 64, no. 1, pp. 527-534, 2017, DOI: 10.1109/TIE.2016.2607698. | 3 | 253.3333 |
| 4 | 55 | | R.-E. Precup, P. Angelov, B. S. J. Costa, M. Sayed-Mouchaweh, An overview on fault diagnosis and nature-inspired optimal control of industrial process applications, Computers in Industry (Elsevier Science), vol. 74, pp. 75-94, 2015, DOI: 10.1016/j.compind.2015.03.001. | 4 | 110 |
| 5 | 51 | | R.-E. Precup, R.-C. David, E. M. Petriu, St. Preitl, M.-B. Rădac, Novel adaptive gravitational search algorithm for fuzzy controlled servo systems, IEEE Transactions on Industrial Informatics, vol. 8, no. 4, pp. 791-800, 2012, DOI: 10.1109/TII.2012.2205393. | 5 | 81.6 |
| 6 | 37 | | R.-E. Precup, St. Preitl, I. J. Rudas, M. L. Tomescu, J. K. Tar, Design and Experiments for a Class of Fuzzy Controlled Servo Systems, IEEE/ASME Transactions on Mechatronics, vol. 13, no. 1, pp. 22-35, 2008, DOI: 10.1109/TMECH.2008.915816. | 5 | 59.2 |
| 7 | 61 | | R.-E. Precup, M.-B. Rădac, R.-C. Roman, E. M. Petriu, Model-Free Sliding Mode Control of Nonlinear Systems: Algorithms and Experiments, Information Sciences (Elsevier Science), vol. 381, pp. 176-192, 2017, DOI: 10.1016/j.ins.2016.11.026. | 4 | 122 |

| 8 | 54 | | R.-E. Precup, M.-C. Sabău, E. M. Petriu, Nature-Inspired Optimal Tuning of Input Membership Functions of Takagi-Sugeno-Kang Fuzzy Models for Anti-lock Braking Systems, Applied Soft Computing (Elsevier Science), vol. 27, pp. 575-589, 2015, DOI: 10.1016/j.asoc.2014.07.004. | 3 | 144 |
|---|---|---|---|---|---|
| 9 | 38 | | R.-E. Precup, R.-C. David, E. M. Petriu, M.-B. Radac, St. Preitl, J. Fodor, Evolutionary optimization-based tuning of low-cost fuzzy controllers for servo systems, Knowledge-Based Systems (Elsevier Science), vol. 38, pp. 74-84, 2013, DOI: 10.1016/j.knosys.2011.07.006. | 6 | 50.66667 |
| 10 | 37 | | R.-E. Precup, St. Preitl, Stability and Sensitivity Analysis of Fuzzy Control Systems. Mechatronics Applications, Acta Polytechnica Hungarica (Óbuda University), vol. 3, no. 1, pp. 61-76, 2006, http://uni-obuda.hu/journal/Precup_Preitl_5.pdf. | 2 | 148 |
| 11 | 42 | | Cl. Pozna, N. Minculete, R.-E. Precup, L. T. Kóczy, Á. Ballagi, Signatures: Definitions, operators and applications to fuzzy modeling, Fuzzy Sets and Systems (Elsevier Science), vol. 201, pp. 86-104, 2012, DOI: 10.1016/j.fss.2011.12.016. | 5 | 67.2 |
| 12 | 34 | | R.-C. David, R.-E. Precup, E. M. Petriu, M.-B. Rădac, St. Preitl, Gravitational Search Algorithm-Based Design of Fuzzy Control Systems with a Reduced Parametric Sensitivity, Information Sciences, vol. 247, pp. 154-173, 2013, DOI: 10.1016/j.ins.2013.05.035. | 5 | 54.4 |
| 13 | 34 | | R.-E. Precup, R.-C. David, E. M. Petriu, St. Preitl, M.-B. Rădac, Fuzzy control systems with reduced parametric sensitivity based on simulated annealing, IEEE Transactions on Industrial Electronics, vol. 59, no. 8, pp. 3049-3061, 2012, DOI: 10.1109/TIE.2011.2130493. | 5 | 54.4 |
| 14 | 35 | | R.-E. Precup, R.-C. David, E. M. Petriu, St. Preitl, M.-B. Rădac, Novel Adaptive Charged System Search Algorithm for Optimal Tuning of Fuzzy Controllers, Expert Systems with Applications, vol. 41, no. 4, part 1, pp. 1168-1175, 2014, DOI: 10.1016/j.eswa.2013.07.110. | 5 | 56 |
| 15 | 33 | | R.-E. Precup, M.-B. Rădac, M. L. Tomescu, E. M. Petriu, St. Preitl, Stable and convergent iterative feedback tuning of fuzzy controllers for discrete-time SISO systems, Expert Systems with Applications, vol. 40, no. 1, pp. 188-199, 2013, DOI: 10.1016/j.eswa.2012.07.023. | 5 | 52.8 |
| 16 | 41 | | R.-E. Precup, R.-C. David, E. M. Petriu, St. Preitl, M.-B. Rădac, Fuzzy logic-based adaptive gravitational search algorithm for optimal tuning of fuzzy controlled servo systems, IET Control Theory & Applications, vol. 7, no. 1, pp. 99-107, 2013, DOI: 10.1049/iet-cta.2012.0343. | 5 | 65.6 |
| 17 | 36 | | T. Haidegger, L. Kovács, R.-E. Precup, B. Benyó, Z. Benyó, St. Preitl, Simulation and control for telerobots in space medicine, Acta Astronautica (Elsevier Science), vol. 181, no. 1, pp. 390-402, 2012, DOI: 10.1016/j.actaastro.2012.06.010. | 6 | 48 |
| 18 | 35 | | R.-E. Precup, M. L. Tomescu, M.-B. Rădac, E. M. Petriu, St. Preitl, C.-A. Dragoş, Iterative performance improvement of fuzzy control systems for three tank systems, Expert Systems with Applications, vol. 39, no. 9, pp. 8288-8299, 2012, DOI: 10.1016/j.eswa.2012.01.165. | 6 | 46.66667 |
| 19 | 34 | | R.-E. Precup, M. L. Tomescu, St. Preitl, Fuzzy Logic Control System Stability Analysis Based on Lyapunov's Direct Method, International Journal of Computers Communications & Control (Agora University Editing House - CCC Publications), vol. IV, no. 4, pp. 415-426, 2009, http://www.journal.univagora.ro/?page=article_details&id=385. | 3 | 90.66667 |
| 20 | 37 | | R.-E. Precup, H.-I. Filip, M.-B. Rădac, E. M. Petriu, St. Preitl, C.-A. Dragoş, Online Identification of Evolving Takagi-Sugeno-Kang Fuzzy Models for Crane Systems, Applied Soft Computing, vol. 24, pp. 1155-1163, 2014, DOI: 10.1016/j.asoc.2014.01.013. | 6 | 49.33333 |

| 21 | 30 | | R.-E. Precup, M. L. Tomescu, St. Preitl, E. M. Petriu, J. Fodor, Cl. Pozna, Stability analysis and design of a class of MIMO fuzzy control systems, Journal of Intelligent & Fuzzy Systems (IOS Press), vol. 25, no. 1, pp. 145-155, 2013, DOI: 10.3233/IFS-2012-0621. | 6 | 40 |
|----|----|---|---|----|----|
| 22 | 32 | | R.-E. Precup, St. Preitl, M.-B. Rădac, E. M. Petriu, C.-A. Dragoş, J. K. Tar, Experiment-based teaching in advanced control engineering, IEEE Transactions on Education, vol. 54, no. 3, pp. 345-355, 2011, DOI: 10.1109/TE.2010.2058575. | 6 | 42.66667 |
| 23 | 36 | | M.-B. Rădac, R.-E. Precup, E. M. Petriu, St. Preitl, Iterative Data-Driven Tuning of Controllers for Nonlinear Systems with Constraints, IEEE Transactions on Industrial Electronics, vol. 61, no. 11, pp. 6360-6368, 2014, DOI: 10.1109/TIE.2014.2300068. | 4 | 72 |
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| 27 | 33 | | R.-E. Precup, St. Preitl, E. M. Petriu, J. K. Tar, M. L. Tomescu, Cl. Pozna, Generic two-degree-of-freedom linear and fuzzy controllers for integral processes, Journal of The Franklin Institute (Elsevier Science), vol. 346, no. 10, pp. 980-1003, 2009, DOI: 10.1016/j.jfranklin.2009.03.006. | 6 | 44 |
| 28 | 38 | | Cl. Pozna, R.-E. Precup, J. K. Tar, I. Skrjanc, St. Preitl, New results in modelling derived from Bayesian filtering, Knowledge-Based Systems (Elsevier Science), vol. 23, no. 2, pp. 182-194, 2010, DOI: 10.1016/j.knosys.2009.11.015. | 5 | 60.8 |
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| 30 | 35 | | A. Takács, L. Kovács, I. J. Rudas, R.-E. Precup, T. Haidegger, Models for Force Control in Telesurgical Robot Systems, Acta Polytechnica Hungarica (Óbuda University), vol. 12, no. 8, pp. 95-114, 2015, DOI: 10.12700/APH.12.8.2015.8.6. | 5 | 56 |
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| 36 | 28 | | R.-E. Precup, R.-C. David, Nature-Inspired Optimization Algorithms for Fuzzy Controlled Servo Systems, Butterworth-Heinemann, Elsevier, UK, 142 pp., ISBN: 978-0-12-816358-0, ISBN: 978-0-12-816606-2 (eBook), 2019. | 2 | 112 |
| 37 | 25 | | M.-B. Rădac, R.-E. Precup, E. M. Petriu, St. Preitl, C.-A. Dragoş, Data-driven reference trajectory tracking algorithm and experimental validation, IEEE Transactions on Industrial Informatics, vol. 9, no. 4, pp. 2327-2336, 2013, DOI: 10.1109/TII.2012.2220973. | 5 | 40 |
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| 41 | 29 | | Cl. Pozna, F. Troester, R.-E. Precup, J. K. Tar, St. Preitl, On the Design of an Obstacle Avoiding Trajectory: Method and Simulation, Mathematics and Computers in Simulation (Elsevier Science), vol. 79, no. 7, pp. 2211-2226, 2009, DOI: 10.1016/j.matcom.2008.12.015. | 5 | 46.4 |
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| 50 | 21 | | R.-E. Precup, R.-C. David, A.-I. Szedlak-Stînean, E. M. Petriu, F. Drăgan, An Easily Understandable Grey Wolf Optimizer and Its Application to Fuzzy Controller Tuning, Algorithms (MDPI), vol. 10, no. 2, paper 68, pp. 1-15, 2017, DOI: 10.3390/a10020068. | 5 | 33.6 |
| 51 | 23 | | R.-C. Roman, R.-E. Precup, C.-A. Bojan-Dragoş, A.-I. Szedlak-Stînean, Combined Model-Free Adaptive Control with Fuzzy Component by Virtual Reference Feedback Tuning for Tower Crane Systems, Procedia Computer Science (Elsevier Science), vol. 162, pp. 267-274, 2019, DOI: 10.1016/j.procs.2019.11.284. | 4 | 46 |
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| 59 | 16 | | R.-E. Precup, E. M. Petriu, M.-B. Rădac, St. Preitl, L.-O. Fedorovici, C.-A. Dragoş, Cascade control system-based cost effective combination of tensor product model transformation and fuzzy control, Asian Journal of Control (John Wiley and Sons), vol. 17, no. 2, pp. 381-391, 2015, DOI: 10.1002/asjc.855. | 6 | 21.33333 |
| 60 | 11 | | Cl. Pozna, R.-E. Precup, An Approach to the Design of Nonlinear State-Space Control Systems, Studies in Informatics and Control (ICI Bucharest), vol. 27, no. 1, pp. 5-14, 2018, DOI: https://doi.org/10.24846/v27i1y201801. | 2 | 44 |
| 61 | 8 | | R.-E. Precup, T.-A. Teban, A. Albu, A.-I. Szedlak-Stînean, C.-A. Bojan-Dragoş, Experiments in Incremental Online Identification of Fuzzy Models of Finger Dynamics, Romanian Journal of Information Science and Technology (Romanian Academy, Section for Information Science and Technology), vol. 21, no. 4, pp. 358-376, 2018, http://www.romjist.ro/full-texts/paper607.pdf. | 5 | 12.8 |

| 62 | 10 | | R.-C. Roman, R.-E. Precup, E. M. Petriu, F. Drăgan, Combination of Data-Driven Active Disturbance Rejection and Takagi-Sugeno Fuzzy Control with Experimental Validation on Tower Crane Systems, Energies (MDPI), vol. 12, no. 8, paper 1548, pp. 1-19, 2019, DOI: 10.3390/en12081548. | 4 | 20 |
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| 63 | 13 | | R.-E. Precup, L.-T. Dioanca, E. M. Petriu, M.-B. Rădac, St. Preitl, C.-A. Dragoş, Tensor Product-Based Real-time Control of the Liquid Levels in a Three Tank System, Proceedings of 2010 IEEE/ASME International Conference on Advanced Intelligent Mechatronics AIM 2010, Montreal, Canada, pp. 768-773, 2010, ISSN 2159-6255, ISBN 978-1-4244-8030-2, DOI: 10.1109/AIM.2010.5695727. | 6 | 17.33333 |
| 64 | 7 | | M.-B. Rădac, R.-E. Precup, Three-level hierarchical model-free learning approach to trajectory tracking control, Engineering Applications of Artificial Intelligence (Elsevier Science), vol. 55, pp. 103-118, 2016, DOI: 10.1016/j.engappai.2016.06.009. | 2 | 28 |
| 65 | 9 | | R.-E. Precup, T.-A. Teban, A. Albu, A.-B. Borlea, I. A. Zamfirache, E. M. Petriu, Evolving Fuzzy Models for Prosthetic Hand Myoelectric-based Control Using Weighted Recursive Least Squares Algorithm for Identification, Proceedings of 2019 IEEE International Symposium on Robotic and Sensors Environments ROSE 2019, Ottawa, ON, Canada, ISBN: 978-1-7281-1964-9, Part Number: CFP19549-ART, pp. 164-169, 2019, DOI: 10.1109/ROSE.2019.8790416. | 6 | 12 |
| 66 | 12 | | Cl. Pozna, R.-E. Precup, P. Földesi, A novel pose estimation algorithm for robotic navigation, Robotics and Autonomous Systems (Elsevier Science), vol. 63, pp. 10-21, 2015, DOI: 10.1016/j.robot.2014.09.034. | 3 | 32 |
| 67 | 4 | | Cl. Pozna, R.-E. Precup, Applications of Signatures to Expert Systems Modelling, Acta Polytechnica Hungarica (Óbuda University), vol. 11, no. 2, pp. 21-39, 2014, DOI: 10.12700/APH.11.02.2014.02.2. | 2 | 16 |
| | | | | | |
| TOTAL | 2165 | | | TOTAL | 5360.686 |

RAMURA DE ȘTIINȚĂ: CALCULATOARE, TEHNOLOGIA INFORMAȚIEI ȘI INGINERIA SISTEMELOR
(COMISIA 15)
STANDARDE MINIMALE ȘI OBLIGATORII PENTRU CONFERIREA TITLURILOR DIDACTICE DIN ÎNVĂȚĂMÂNTUL SUPERIOR
ȘI A GRADELOR PROFESIONALE DE CERCETARE-DEZVOLTARE

**Candidat: Radu-Emil Precup**

**Centralizator Standarde minimale necesare si obligatorii**

A 3.2 Membru în comitetele de redacție sau comitetele științifice ale revistelor indexate ISI, chair, co-chair sau
membru în comitetele de organizare ale manifestărilor științifice internaționale indexate ISI

| Nr. crt. | Activitatea | Punctaj |
|---|---|---|
| 1 | Associate editor al revistei Applied Artificial Intelligence, Taylor & Francis (din 2022), indexată în Clarivate Analytics Web of Science (cu denumirea anterioară ISI Web of Knowledge), factor de impact conform 2021 Journal Citation Reports (JCR) publicat de Clarivate Analytics în 2022 = 2.777, Print ISSN: 0883-9514 Online ISSN: 1087-6545. | 10 |
| 2 | Associate editor al revistei IEEE Transactions on Fuzzy Systems (2018-2022), indexată în Clarivate Analytics Web of Science (cu denumirea anterioară ISI Web of Knowledge), factor de impact conform 2020 Journal Citation Reports (JCR) publicat de Clarivate Analytics în 2021 = 12.029. ISSN 1063-6706. | 10 |
| 3 | Associate editor al revistei IEEE Transactions on Cybernetics (din 2018), indexată în Clarivate Analytics Web of Science (cu denumirea anterioară ISI Web of Knowledge), factor de impact conform 2020 Journal Citation Reports (JCR) publicat de Clarivate Analytics în 2021 = 11.448. ISSN 2168-2267. | 10 |
| 4 | Associate editor al revistei Information Sciences, Elsevier (din 2020), indexată în Clarivate Analytics Web of Science (cu denumirea anterioară ISI Web of Knowledge), factor de impact conform 2020 Journal Citation Reports (JCR) publicat de Clarivate Analytics în 2021 = 6.795, ISSN 0020-0255. | 10 |
| 5 | Membru al Editorial Board al revistei Engineering Applications of Artificial Intelligence, Elsevier (din 2021), indexată în Clarivate Analytics Web of Science (cu denumirea anterioară ISI Web of Knowledge), factor de impact conform 2020 Journal Citation Reports (JCR) publicat de Clarivate Analytics în 2021 = 6.212, ISSN 0952-1976. | 10 |
| 6 | Membru al Editorial Board al revistei Applied Soft Computing, Elsevier (din 2014), indexată în Clarivate Analytics Web of Science (cu denumirea anterioară ISI Web of Knowledge), factor de impact conform 2020 Journal Citation Reports (JCR) publicat de Clarivate Analytics în 2021 = 6.752. ISSN 1568-4946. | 10 |

| | | |
|---|---|---|
| 7 | Membru al Editorial Board al revistei Expert Systems with Applications, Elsevier (din 2021), indexată în Clarivate Analytics Web of Science (cu denumirea anterioară ISI Web of Knowledge), factor de impact conform 2020 Journal Citation Reports (JCR) publicat de Clarivate Analytics în 2021 = 6.954, ISSN 0957-4174. | 10 |
| 8 | Membru al Editorial Board al revistei Evolving Systems, Springer (din 2014), indexată în Clarivate Analytics Web of Science (cu denumirea anterioară ISI Web of Knowledge), factor de impact conform 2020 Journal Citation Reports (JCR) publicat de Clarivate Analytics în 2021 = 1.908, ISSN 1868-6478. | 10 |
| 9 | Editor al revistei Cogent Engineering, Taylor & Francis, Anglia (din 2017), indexată în Clarivate Analytics Web of Science (cu denumirea anterioară ISI Web of Knowledge), ISSN 2331-1916. | 10 |
| 10 | Associate Editor al revistei CAAI Transactions on Intelligence Technology, Institution of Engineering and Technology (IET) and Chinese Association for Artificial Intelligence (CAAI), Wiley, USA (din 2019), indexată în Clarivate Analytics Web of Science (cu denumirea anterioară ISI Web of Knowledge), Online ISSN 2468-2322. | 10 |
| 11 | Membru al Editorial Board al revistei Proceedings of the Romanian Academy, Series A: Mathematics, Physics, Technical Sciences, Information Science, Academia Română (din 2018), indexată în Clarivate Analytics Web of Science (cu denumirea anterioară ISI Web of Knowledge), factor de impact conform 2020 Journal Citation Reports (JCR) publicat de Clarivate Analytics în 2021 = 1.523, ISSN 1454-9069. | 10 |
| 12 | Membru al Editorial Board al revistei Romanian Journal of Information Science and Technology, Academia Română (din 2018), indexată în Clarivate Analytics Web of Science (cu denumirea anterioară ISI Web of Knowledge), factor de impact conform 2020 Journal Citation Reports (JCR) publicat de Clarivate Analytics în 2021 = 0.643, ISSN 1453-8245. | 10 |
| 13 | Associate Editor al revistei Control Engineering and Applied Informatics, Societatea Română de Automatică şi Informatică Tehnică (din 2016), indexată în Clarivate Analytics Web of Science (cu denumirea anterioară ISI Web of Knowledge), factor de impact conform 2020 Journal Citation Reports (JCR) publicat de Clarivate Analytics în 2021 = 0.973, ISSN 1454-8658. | 10 |
| 14 | Membru al Senior Editorial Board al revistei Studies in Informatics and Control, ICI Bucureşti (din 2020), indexată în Clarivate Analytics Web of Science (cu denumirea anterioară ISI Web of Knowledge), factor de impact conform 2020 Journal Citation Reports (JCR) publicat de Clarivate Analytics în 2021 = 1.649, ISSN 1220-1776. | 10 |
| 15 | Associate Editor al revistei Control Engineering and Applied Informatics, Societatea Română de Automatică şi Informatică Tehnică (din 2016), indexată în Clarivate Analytics Web of Science (cu denumirea anterioară ISI Web of Knowledge), factor de impact conform 2019 Journal Citation Reports (JCR) publicat de Clarivate Analytics în 2020 = 0.775, ISSN 1454-8658. | 10 |

| Nr. | Activitatea | Punctaj |
|---|---|---|
| 16 | Track Chair al revistei Acta Polytechnica Hungarica, Óbuda University, Ungaria (din 2014), Associate Editor (2012-2014), indexată în Clarivate Analytics Web of Science (cu denumirea anterioară ISI Web of Knowledge), factor de impact conform 2020 Journal Citation Reports (JCR) publicat de Clarivate Analytics în 2021 = 1.806, ISSN 1785-8860. | 10 |
| 17 | Membru al Editorial Board al revistei International Journal of Computers Communications & Control, Universitatea Agora (din 2017), indexată în Clarivate Analytics Web of Science (cu denumirea anterioară ISI Web of Knowledge), factor de impact conform 2020 Journal Citation Reports (JCR) publicat de Clarivate Analytics în 2021 = 2.293, ISSN 1841-9836. | 10 |
| 18 | Membru al Editorial Board al revistei Advances in Electrical and Computer Engineering, Universitatea "Ştefan cel Mare" din Suceava (din 2007), indexată în Clarivate Analytics Web of Science (cu denumirea anterioară ISI Web of Knowledge), factor de impact conform 2020 Journal Citation Reports (JCR) publicat de Clarivate Analytics în 2021 = 1.221, ISSN 1582-7445. | 10 |
| 19 | Copreşedinte general şi copreşedinte al comitetului internaţional de program la 2020 IEEE 14th International Symposium on Applied Computational Intelligence and Informatics SACI 2020 (Timişoara). | 10 |
| 20 | Preşedinte al comitetului internaţional de program la 23rd International Conference on System Theory, Control and Computing ICSTCC 2019 (Sinaia). | 10 |
| 21 | Copreşedinte general şi copreşedinte al comitetului internaţional de program la IEEE 13th International Symposium on Applied Computational Intelligence and Informatics SACI 2019 (Timişoara). | 10 |
| 22 | Vicepreşedinte al comitetului internaţional de program la 22nd International Conferences on System Theory, Control and Computing ICSTCC 2018 (Sinaia). | 10 |
| 23 | Copreşedinte general şi copreşedinte al comitetului internaţional de program la IEEE 12th International Symposium on Applied Computational Intelligence and Informatics SACI 2018 (Timişoara). | 10 |
| 24 | Vicepreşedinte al comitetului internaţional de program la 21st International Conferences on System Theory, Control and Computing ICSTCC 2017 (Sinaia). | 10 |
| 25 | Copreşedinte al comitetului de program la 11th IEEE International Symposium on Applied Computational Intelligence and Informatics SACI 2016 (Timişoara). | 10 |
| | | |
| | TOTAL | 250 |

A 3.2 Membru în comitetele de redacţie sau comitelele ştiinţifice ale revistelor indexate ISI, chair, co-chair sau membru în comitetele de organizare ale manifestărilor ştiinţifice internaţionale indexate BDI

| Nr. crt. | Activitatea | Punctaj |
|---|---|---|
| | | |
| 1 | Formula = 6 | |
| 2 | | |

RAMURA DE ȘTIINȚĂ: CALCULATOARE, TEHNOLOGIA INFORMAȚIEI ȘI INGINERIA SISTEMELOR
(COMISIA 15)
STANDARDE MINIMALE ȘI OBLIGATORII PENTRU CONFERIREA TITLURILOR DIDACTICE DIN ÎNVĂȚĂMÂNTUL SUPERIOR
ȘI A GRADELOR PROFESIONALE DE CERCETARE-DEZVOLTARE

**Candidat: Radu-Emil Precup**

**Centralizator Standarde minimale necesare si obligatorii**

A 3.4 Premii în domeniu conferite de Academia Română, ASTR, AOSR, sau premii internaționale de prestigiu

| Nr. crt. | Premiul decernat | Punctaj |
|---|---|---|
| 1 | Elsevier Scopus Award for Excellence in Global Contribution (2017). | 15 |
| 2 | Premiul Tudor Tănăsescu al Academiei Române, 2018, acordat în 2020, pentru Tehnici data-driven de acordare a parametrilor regulatoarelor | 15 |
| 3 | Premiul Grigore Moisil al Academiei Române, 2014, acordat în 2016, pentru Contribuții la optimizarea sistemelor fuzzy. | 15 |
| 4 | Premiul Spiru Haret al Marii Loji Naționale din România, acordat în 2016 în parteneriat cu Academia Română, pentru Educație, mediu, IT. | 15 |
| | | |
| | TOTAL | 60 |