

Listă de lucrări CĂLIN-ADRIAN POPA

Cele mai relevante 10 lucrări

1. Petre Birtea, Dan Comănescu, Călin-Adrian Popa, *Averaging on Manifolds by Embedding Algorithm*. **Journal of Mathematical Imaging and Vision**, Vol. 49, Nr. 2, pag. 454-466, 2014. (ISI Impact Factor 1.353, Q2)
2. Călin-Adrian Popa, *Learning Algorithms for Quaternion-Valued Neural Networks*. **Neural Processing Letters**, Vol. 47, Nr. 3, pag. 949–973, 2018. (ISI Impact Factor 2.891, Q2)
3. Călin-Adrian Popa, Eva Kaslik, *Multistability and multiperiodicity in impulsive hybrid quaternion-valued neural networks with mixed delays*. **Neural Networks**, Vol. 99, pag. 1-18, 2018. (ISI Impact Factor 5.535, Q1)
4. Călin-Adrian Popa, *Global exponential stability of octonion-valued neural networks with leakage delay and mixed delays*. **Neural Networks**, Vol. 105, pag. 277-293, 2018. (ISI Impact Factor 5.535, Q1)
5. Călin-Adrian Popa, *Global exponential stability of neutral-type octonion-valued neural networks with time-varying delays*. **Neurocomputing**, Vol. 309, pag. 117-133, 2018. (ISI Impact Factor 4.438, Q1)
6. Călin-Adrian Popa, *Global μ -stability of neutral-type impulsive complex-valued BAM neural networks with leakage delay and unbounded time-varying delays*. **Neurocomputing**, Vol. 376, pag. 73-94, 2020. (ISI Impact Factor 4.438, Q1)
7. Călin-Adrian Popa, *Dissipativity of impulsive matrix-valued neural networks with leakage delay and mixed delays*. **Neurocomputing**, Vol. 405, pag. 85-95, 2020. (ScienceDirect, ISI Impact factor 4.438, Q1)
8. Călin-Adrian Popa, Eva Kaslik, *Finite-Time Mittag-Leffler Synchronization of Neutral-Type Fractional-Order Neural Networks with Leakage Delay and Time-Varying Delays*. **Mathematics**, Vol. 8, No. 7, 2020. (MDPI, ISI Impact factor 1.747, Q1)
9. Călin-Adrian Popa, *Quasi-Newton Learning Methods for Complex-Valued Neural Networks*, 29th International Joint Conference on Neural Networks (IJCNN), 2015, Killarney, Ireland. (IEEE, ISI)
10. Călin-Adrian Popa, *Complex-Valued Convolutional Neural Networks for Real-Valued Image Classification*, 30th International Joint Conference on Neural Networks (IJCNN), pag. 816-822, 2017, Anchorage, Alaska, USA. (IEEE, ISI)

Teza de doctorat

1. Călin-Adrian Popa, *Algoritmi de învățare pentru rețele neuronale Clifford*, Colecția Teze de doctorat ale UPT, seria 14: Calculatoare și Tehnologia Informației, nr. 28, 232 pag., Editura Politehnica, Timișoara, 2015, ISBN 978-606-554-965-4.

Cărți de autor sau capitole de specialitate la edituri cu ISBN

1. Călin-Adrian Popa, *Rețele neuronale de ordin fracțional*. 106 pag., Editura Politehnica, Timișoara, 2019, ISBN 978-606-35-0224-8.

Material didactic / Lucrări didactice publicate la edituri cu ISBN

1. Călin-Adrian Popa, *Analiză matematică: exerciții rezolvate*. 106 pag., Editura Politehnica, Timișoara, 2019, ISBN 978-606-35-0225-5.

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

1. Petre Birtea, Dan Comănescu, Călin-Adrian Popa, *Averaging on Manifolds by Embedding Algorithm*. **Journal of Mathematical Imaging and Vision**, Vol. 49, Nr. 2, pag. 454-466, 2014. (ISI Impact Factor 1.353, Q2)
2. Călin-Adrian Popa, *Enhanced Gradient Descent Algorithms for Complex-Valued Neural Networks*, 16th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), pag. 272-279, 2014, Timișoara, România. (IEEE, ISI)
3. Călin-Adrian Popa, *Exact Hessian Matrix Calculation for Complex-Valued Neural Networks*, 6th International Workshop on Soft Computing Applications (SOFA), pag. 439-455, 2014, Timișoara, România. (SpringerLink, ISI)
4. Călin-Adrian Popa, *Scaled Conjugate Gradient Learning for Complex-Valued Neural Networks*, 21st International Conference on Soft Computing (MENDEL), pag. 221-233, 2015, Brno, Czech Republic. (SpringerLink, ISI)
5. Călin-Adrian Popa, *Matrix-Valued Neural Networks*, 21st International Conference on Soft Computing (MENDEL), pag. 245-255, 2015, Brno, Czech Republic. (SpringerLink, ISI)
6. Călin-Adrian Popa, *Quasi-Newton Learning Methods for Complex-Valued Neural Networks*, 29th International Joint Conference on Neural Networks (IJCNN), 2015, Killarney, Ireland. (IEEE, ISI)
7. Călin-Adrian Popa, *Lie Algebra-Valued Neural Networks*, 29th International Joint Conference on Neural Networks (IJCNN), 2015, Killarney, Ireland. (IEEE, ISI)
8. Călin-Adrian Popa, *Lie Algebra-Valued Hopfield Neural Networks*, 17th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), pag. 212-215, 2015, Timișoara, România. (IEEE, ISI)
9. Călin-Adrian Popa, *Conjugate Gradient Algorithms for Complex-Valued Neural Networks*, 22nd International Conference on Neural Information Processing (ICONIP), pag. 412-422, 2015, Istanbul, Turkey. (SpringerLink, ISI)
10. Călin-Adrian Popa, *Matrix-Valued Hopfield Neural Networks*, 13th International Symposium on Neural Networks (ISNN), pag. 127-134, 2016, Sankt Petersburg, Russia. (SpringerLink, ISI)
11. Călin-Adrian Popa, *Matrix-Valued Bidirectional Associative Memories*, 7th International Workshop on Soft Computing Applications (SOFA), 2016, Arad, România. (SpringerLink, ISI)
12. Călin-Adrian Popa, *Enhanced Gradient Descent Algorithms for Quaternion-Valued Neural Networks*, 7th International Workshop on Soft Computing Applications (SOFA), 2016, Arad, România. (SpringerLink, ISI)
13. Călin-Adrian Popa, *Octonion-Valued Neural Networks*, 25th International Conference on Artificial Neural Networks (ICANN), pag. 435-443, 2016, Barcelona, Spain. (SpringerLink, ISI)
14. Călin-Adrian Popa. *Levenberg-Marquardt Learning Algorithm for Quaternion-Valued Neural Networks*, 18th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), pag. 272-278, 2016, Timișoara, România. (IEEE, ISI)
15. Călin-Adrian Popa, *Scaled Conjugate Gradient Learning for Quaternion-Valued Neural Networks*, 23rd International Conference on Neural Information Processing (ICONIP), pag. 243-252, 2016, Kyoto, Japan. (SpringerLink, ISI)
16. Călin-Adrian Popa, *Octonion-Valued Bidirectional Associative Memories*, 30th International Joint Conference on Neural Networks (IJCNN), pag. 783-787, 2017,

- Anchorage, Alaska, USA. (IEEE, ISI)
17. Călin-Adrian Popa, *Complex-Valued Convolutional Neural Networks for Real-Valued Image Classification*, 30th International Joint Conference on Neural Networks (IJCNN), pag. 816-822, 2017, Anchorage, Alaska, USA. (IEEE, ISI)
 18. Călin-Adrian Popa, *Global Asymptotic Stability for Matrix-Valued Recurrent Neural Networks with Time Delays*, 30th International Joint Conference on Neural Networks (IJCNN), pag. 4474-4481, 2017, Anchorage, Alaska, USA. (IEEE, ISI)
 19. Călin-Adrian Popa, *Quasi-Newton Learning Methods for Quaternion-Valued Neural Networks*, 14th International Work-Conference on Artificial Neural Networks (IWANN), pag. 362-374, 2017, Cadiz, Spain. (SpringerLink, ISI)
 20. Călin-Adrian Popa, *Exponential Stability for Delayed Octonion-Valued Recurrent Neural Networks*. 14th International Work-Conference on Artificial Neural Networks (IWANN), pag. 375-385, 2017, Cadiz, Spain. (SpringerLink, ISI)
 21. Călin-Adrian Popa, *Global Exponential Stability for Matrix-Valued Neural Networks with Time Delay*. 14th International Symposium on Neural Networks (ISNN), pag. 429-438, 2017, Sapporo, Hokkaido, Japan. (SpringerLink, ISI)
 22. Călin-Adrian Popa, *Global Asymptotic Stability for Octonion-Valued Neural Networks with Delay*. 14th International Symposium on Neural Networks (ISNN), pag. 439-448, 2017, Sapporo, Hokkaido, Japan. (SpringerLink, ISI)
 23. Călin-Adrian Popa, *Exponential Stability of Matrix-Valued BAM Neural Networks with Time-Varying Delays*. 24th International Conference on Neural Information Processing (ICONIP), 2017, Guangzhou, China. (SpringerLink, ISI)
 24. Călin-Adrian Popa, *Asymptotic Stability of Delayed Octonion-Valued Neural Networks with Leakage Delay*. 24th International Conference on Neural Information Processing (ICONIP), 2017, Guangzhou, China. (SpringerLink, ISI)
 25. Călin-Adrian Popa, *Learning Algorithms for Quaternion-Valued Neural Networks*. **Neural Processing Letters**, Vol. 47, Nr. 3, pag. 949–973, 2018. (ISI Impact Factor 2.891, Q2)
 26. Călin-Adrian Popa, Eva Kaslik, *Multistability and multiperiodicity in impulsive hybrid quaternion-valued neural networks with mixed delays*. **Neural Networks**, Vol. 99, pag. 1-18, 2018. (ISI Impact Factor 5.535, Q1)
 27. Călin-Adrian Popa, Cosmin Cernăzanu-Glăvan, *Fourier Transform-Based Image Classification using Complex-Valued Convolutional Neural Networks*. 15th International Symposium on Neural Networks (ISNN), 2018, Minsk, Belarus. (SpringerLink, ISI)
 28. Călin-Adrian Popa, *Complex-Valued Stacked Denoising Autoencoders*. 15th International Symposium on Neural Networks (ISNN), 2018, Minsk, Belarus. (SpringerLink, ISI)
 29. Călin-Adrian Popa, *Complex-Valued Deep Belief Networks*. 15th International Symposium on Neural Networks (ISNN), 2018, Minsk, Belarus. (SpringerLink, ISI)
 30. Călin-Adrian Popa, *Deep Hybrid Real-Complex-Valued Convolutional Neural Networks for Image Classification*. 31st International Joint Conference on Neural Networks (IJCNN), 2018, Rio de Janeiro, Brazil. (IEEE, ISI)
 31. Călin-Adrian Popa, *Complex-Valued Deep Boltzmann Machines*. 31st International Joint Conference on Neural Networks (IJCNN), 2018, Rio de Janeiro, Brazil. (IEEE, ISI)
 32. Călin-Adrian Popa, *Global exponential stability of octonion-valued neural networks with leakage delay and mixed delays*. **Neural Networks**, Vol. 105, pag. 277-293, 2018. (ISI Impact Factor 5.535, Q1)
 33. Călin-Adrian Popa, *Global exponential stability of neutral-type octonion-valued neural*

- networks with time-varying delays.* **Neurocomputing**, Vol. 309, pag. 117-133, 2018. (ISI Impact Factor 4.438, Q1)
- 34. Călin-Adrian Popa, *Global μ -stability of neutral-type impulsive complex-valued BAM neural networks with leakage delay and unbounded time-varying delays.* **Neurocomputing**, Vol. 376, pag. 73-94, 2020. (ISI Impact Factor 4.438, Q1)
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 - 36. Călin-Adrian Popa, Eva Kaslik, *Finite-Time Mittag-Leffler Synchronization of Neutral-Type Fractional-Order Neural Networks with Leakage Delay and Time-Varying Delays.* **Mathematics**, Vol. 8, Nr. 7, 2020. (MDPI, ISI Impact factor 1.747, Q1)

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

- 1. Călin-Adrian Popa, *Lie Algebra-Valued Bidirectional Associative Memories*, 22nd International Conference on Soft Computing (MENDEL), pag. 127-135, 2016, Brno, Czech Republic. (SpringerLink)
- 2. Călin-Adrian Popa, *Conjugate Gradient Learning for Quaternion-Valued Neural Networks*, 22nd International Conference on Soft Computing (MENDEL), pag. 176-185, 2016, Brno, Czech Republic. (SpringerLink)

Granturi/proiecte de cercetare câștigate prin competiție sau Contracte cu agenți economici, în valoare de minimum 10.000 dolari SUA echivalent încasăți - ca Director / responsabil partener

- 1. Proiect de cercetare PCD-TC-2017-41, Universitatea Politehnica Timișoara, Director proiect Călin-Adrian Popa, Buget 46500 RON (10000 EUR), Câștigat prin competiție.
- 2. Proiect de cercetare "Bayesian Deep Learning for Depth Estimation with Application to 3D Object Detection", Continental Automotive România S.R.L., Director proiect Călin-Adrian Popa, Buget 48089,49 RON (10010,88 EUR), Câștigat prin competiție.