

Listă publicații

Paul Irofti

Cărți

1. B. Dumitrescu and **P. Irofti**, *Dictionary Learning Algorithms and Applications*, Springer, 2018

Capitole

1. A. Pătrașcu, C. Păduraru, and **P. Irofti**, “Stochastic Proximal Gradient Algorithm with Minibatches. Application to Large Scale Learning Models,” in *Enabling AI applications in Data Science*, pp. 3–25. Springer, 2020
2. **P. Irofti**, A. Băltoiu, and A. Pătrașcu, “Fraud Detection in Networks,” in *Enabling AI applications in Data Science*, pp. 517–536. Springer, 2020

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1. **P. Irofti**, L. Romero-Ben, F. Stoican, and V. Puig, “Learning Dictionaries from Physical-Based Interpolation for Water Network Leak Localization,” *IEEE Transactions on Control Systems Technology*, pp. 1–12, 2023
2. A. Pătrașcu and **P. Irofti**, “On finite termination of an inexact Proximal Point algorithm,” *Applied Mathematics Letters*, vol. 134, pp. 108348, 2022
3. A. Pătrașcu and **P. Irofti**, “Stochastic proximal splitting algorithm for composite minimization,” *Optimization Letters*, pp. 1–19, 2021
4. **P. Irofti**, F. Stoican, and V. Puig, “Fault Handling in Large Water Networks with Online Dictionary Learning,” *Journal of Process Control*, vol. 94, pp. 46–57, 2020
5. F. Stoican and **P. Irofti**, “Aiding Dictionary Learning Through Multi-Parametric Sparse Representation,” *Algorithms*, vol. 12, no. 7, pp. 131, 2019
6. B. Dumitrescu and **P. Irofti**, “Regularized K-SVD,” *IEEE Signal Processing Letters*, vol. 24, no. 3, pp. 309–313, March 2017
7. **P. Irofti**, “Efficient Parallel Implementation for Single Block Orthogonal Dictionary Learning,” *Journal of Control Engineering and Applied Informatics*, vol. 18, no. 3, pp. 101–108, 2016
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1. **P. Irofti**, “Pinky: A Modern Malware-oriented Dynamic Information Retrieval Tool,” in *International Conference on Information Technology and Communications Security (SecITC)*. Springer, 2023, pp. 1–14
2. A. Stancu, **P. Irofti**, and I. Leuștean, “OpenBSD formal driver verification with SeL4,” in *International Conference on Information Technology and Communications Security (SecITC)*. Springer, 2023, pp. 1–13
3. R. Bălucea and **P. Irofti**, “Software Mitigation of RISC-V Spectre Attacks,” in *International Conference on Information Technology and Communications Security (SecITC)*. Springer, 2023, pp. 1–18
4. **P. Irofti**, A. Pătrașcu, and A.I. Hîji, “Unsupervised Abnormal Traffic Detection through Topological Flow Analysis,” in *2022 14th International Conference on Communications (COMM)*. 2022, pp. 1–6, IEEE
5. **P. Irofti**, L. Romero-Ben, F. Stoican, and V. Puig, “Data-driven Leak Localization in Water Distribution Networks via Dictionary Learning and Graph-based Interpolation,” in *CCTA 2022 - 2022 IEEE International Conference on Control Technology and Applications (CCTA)*. 2022, pp. 1265–1270, IEEE
6. **P. Irofti**, C. Rusu, and A. Pătrașcu, “Dictionary Learning with Uniform Sparse Representations for Anomaly Detection,” in *ICASSP 2022 - 2022 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*. 2022, pp. 3378–3382, IEEE
7. C. Rusu and **P. Irofti**, “Efficient and Parallel Separable Dictionary Learning,” in *Proceedings of the IEEE 2021 27th International Conference on Parallel and Distributed Systems (ICPADS)*. 2021, pp. 1–6, IEEE Computer Society
8. **P. Irofti** and A. Băltoiu, “Unsupervised Dictionary Learning for Anomaly Detection,” in *International Traveling Workshop on Interactions Between Sparse Models and Technology*, 2020, pp. 1–3
9. A. Băltoiu, A. Pătrașcu, and **P. Irofti**, “Graph Anomaly Detection Using Dictionary Learning,” *The 21st World Congress of the International Federation of Automatic Control (IFAC-PapersOnLine)*, vol. 53, no. 2, pp. 3551–3558, 2020
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11. **P. Irofti** and B. Dumitrescu, “Pairwise Approximate K-SVD,” in *Acoustics Speech and Signal Processing (ICASSP), 2019 IEEE International Conference on*, 2019, pp. 3677–3681
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13. B. Dumitrescu and **P. Irofti**, “Low Dimensional Subspace Finding via Size-Reducing Dictionary Learning,” in *2016 IEEE International Workshop on Machine Learning for Signal Processing (MLSP)*, 2016, pp. 1–6

14. **P. Irofti**, “The Effect of Atom Replacement Strategies on Dictionary Learning,” in *International Traveling Workshop on Interactions Between Sparse Models and Technology*, 2016, pp. 10–11
15. **P. Irofti** and B. Dumitrescu, “Overcomplete Dictionary Learning with Jacobi Atom Updates,” in *39th International Conference on Telecommunications and Signal Processing*, 2016, pp. 421–424
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1. **P. Irofti** and F. Stoican, “Dictionary Learning Applications in Control Theory,” in *1st Conference on Recent Advances in Artificial Intelligence*, 2017, pp. 1–2
2. **P. Irofti**, “The Effect of Atom Replacement Strategies on Dictionary Learning,” in *International Traveling Workshop on Interactions Between Sparse Models and Technology*, 2016, pp. 10–11
3. **P. Irofti**, “Making OpenBSD Useful on the Octeon Network Gear,” in *European BSD Conference*, 2014
4. **P. Irofti**, “Dynamic Analysis: Knowing When to Stop,” in *Challenges in Analysing Executables: Scalability, Self-Modifying Code and Synergy (Dagstuhl Seminar 14241)*, 2014
5. **P. Irofti**, “Porting OpenBSD on the MIPS64-based Octeon Platforms,” in *BSDCan Conference*, 2014
6. **P. Irofti**, “Emulator Design, Traps and Pitfalls,” in *Analysis of Executables: Benefits and Challenges (Dagstuhl Seminar 12051)*, 2012
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1. **P. Irofti**, *Parallel Dictionary Learning Algorithms for Sparse Representations*, Ph.D. thesis, University Politehnica of Bucharest, 2015
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