

List of publications

Marian Codreanu

October 4, 2020

Articles in international peer-reviewed journals

1. M. Moltafet, M. Leinonen, and **M. Codreanu**, “Moment generating function of the AoI in multi-source systems with packet management,” *IEEE Wireless Communications Letters*, submitted Sep. 2020; preprint: arXiv:2009.14439.
2. M. Hatami, M. Leinonen, and **M. Codreanu**, “AoI minimization in status update control with energy harvesting sensors,” *IEEE Transactions on Communications*, submitted Sep. 2020; preprint: arXiv:2009.04224.
3. M. Moltafet, M. Leinonen, and **M. Codreanu**, “Average AoI in multi-source systems with source-aware packet management,” *IEEE Transactions on Communications*, submitted Mar. 2020, revised Sep. 2020; preprint: arXiv:2001.03959.
4. M. Moltafet, M. Leinonen, **M. Codreanu**, and N. Pappas, “Power minimization for age of information constrained dynamic control in wireless sensor networks,” *IEEE Journal on Selected Areas in Communications*, submitted Jul. 2020; preprint: arXiv:2007.05364.
5. M. Moltafet, M. Leinonen, and **M. Codreanu**, “On the age of information in multi-source queuing models,” *IEEE Transactions on Communications*, vol. 68, no. 8, pp. 5003–5017, Aug. 2020.
6. M. Leinonen, and **M. Codreanu**, “Low-complexity vector quantized compressed sensing via deep neural networks,” *IEEE Open Journal of the Communications Society*, available online, vol. 1, pp. 1278–1294, Aug. 2020.
7. E. Belyaev, **M. Codreanu**, M. Juntti, and K. Egiazarian, “Compressive sensed video recovery via iterative thresholding with random transforms,” *IET Image Processing*, vol. 14, no. 6, pp. 1187–1199, May 2020.
8. M. Moltafet, M. Leinonen, and **M. Codreanu**, “Worst case age of information in wireless sensor networks: A multi-access channel,” *IEEE Wireless Communications Letters*, vol. 9, no. 3, pp. 321–325, Mar. 2020.
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10. M. Leinonen, **M. Codreanu**, and M. Juntti, “Distributed distortion-rate optimized compressed sensing in wireless sensor networks,” *IEEE Transactions on Communications*, vol. 66, no. 4, pp. 1609–1623, Apr. 2018.
11. H. Shiri, M.A. Tinati, **M. Codreanu**, and G. Azarnia “Distributed sparse diffusion estimation with reduced communication cost,” *IET Signal Processing*, Apr. 2018.
12. S. Manosha, S. Joshi, **M. Codreanu**, N. Rajatheva, and M. Latva-aho, “Admission control in algorithms for QoS-constrained multicell MISO Downlink Systems,” *IEEE Transactions on Wireless Communications*, vol. 17, no. 3, pp. 1982–1999, Mar. 2018.

13. H. Shiri, M.A. Tinati, **M. Codreanu**, and S. Daneshvar, “Sparse distributed diffusion based on set membership and affine projection,” *Digital Signal Processing (Elsevier) Journal*, vol. 73, pp. 47–61, Feb. 2018.
14. S. Joshi, S. Manosha, **M. Codreanu**, and M. Latva-aho, “Dynamic inter-operator spectrum sharing via Lyapunov optimization,” *IEEE Transactions on Wireless Communications*, vol. 16, no. 10, pp. 6365–6381, Oct. 2017.
15. E. Belyaev, S. Forchhammer, and **M. Codreanu**, “Error concealment for 3-D DWT based video codec using iterative thresholding,” *IEEE Communications Letters*, vol. 21, no. 8, pp. 1731–1734, Aug. 2017.
16. U. Wijewardhana and **M. Codreanu**, “A Bayesian approach for online recovery of streaming signals from compressive measurements,” *IEEE Transactions on Signal Processing*, vol. 65, no. 1, pp. 184–199, Jan. 2017.
17. U. Wijewardhana, **M. Codreanu**, and M. Latva-aho, “An interior-point method for modified total variation exploiting transform-domain sparsity,” *IEEE Signal Processing Letters*, vol. 24, no. 1, pp. 56–60, Jan. 2017.
18. M. Costa, **M. Codreanu**, and A. Ephremides, “On the age of information in status update systems with packet management,” *IEEE Transactions on Information Theory*, vol. 62, no. 4, pp. 1897–1910, Apr. 2016.
19. K. Lähtekangas, **M. Codreanu**, and B. Aazhang, “Route discovery protocol for energy efficient networks with MIMO links,” *IEEE Journal on Selected Areas in Communications*, vol. 33, no. 12, pp. 2735–2748, Dec. 2015.
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22. M. Leinonen, **M. Codreanu**, and M. Juntti, “Sequential compressed sensing with progressive signal reconstruction in wireless sensor networks,” *IEEE Transactions on Wireless Communications*, vol. 14, no. 3, pp. 1622–1635, Mar. 2015.
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Scientific monographs

1. M. Leinonen, **M. Codreanu**, and G. Giannakis, *Compressed sensing with applications in wireless networks*, Foundations and Trends® in Signal Processing, Now Publishers, pp. 1–282, 2019; available online: http://weber.itn.liu.se/~marco24/documents/2019_CS_book.pdf.
2. P. C. Weeraddana, **M. Codreanu**, M. Latva-aho, A. Ephremides, and C. Fischione, *Weighted sum-rate maximization in wireless networks: A review*, Foundations and Trends® in Networking, Now Publishers, pp. 1–163, 2012; available online: http://weber.itn.liu.se/~marco24/documents/2012_WSRMax_book.pdf.

Academic theses

1. **M. Codreanu**, *Multidimensional Adaptive Radio Links for Broadband Communications*, Ph.D. thesis, Centre for Wireless Communications, University of Oulu. Acta Universitatis Ouluensis, Oulu, Finland, Nov. 2007; available online: <http://jultika.oulu.fi/files/isbn9789514286223.pdf>.
2. **M. Codreanu**, *Decision feedback adaptive recurrent neural network for communication channels equalization*, Master's thesis in Romanian, Department of Applied Electronics, "Politehnica" University of Bucharest. Bucharest, Romania, 1998.
3. **M. Codreanu**, *Reduction of the narrow band interference in spread spectrum communications*, Bachelor's thesis in Romanian, Department of Applied Electronics, "Politehnica" University of Bucharest. Bucharest, Romania, 1997.

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1. M. Hatami, M. Jahandideh, M. Leinonen, and **M. Codreanu**, "Age-aware status update control for energy harvesting IoT sensors via reinforcement learning," in *Proc. IEEE Int. Symp. Pers., Indoor, Mobile Radio Commun.*, London, UK, Aug. 31–Sep. 3 2020.
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