List of Publications, August 2024 (Stefan Werner)

A. Peer-reviewed scientific articles

A1. Journal article (refereed), original research

Selected journal articles

[87] M. A. Cheema, V. C. Gogineni, P. S. Rossi, and S. Werner, "Networked Federated Meta-Learning Over Extending Graphs," IEEE Internet of Things Journal, 2024.

[86] V. C. Gogineni, K. Müller, M. Orlandic, and S. Werner, "Lightweight Autonomous Autoencoders for Timely Hyperspectral Anomaly Detection," IEEE Geoscience and Remote Sensing Letters, vol. 21, pp. 1–5, 2024.

[85] R. Mirzaeifard, N. K. D. Venkategowda, V. C. Gogineni, S. Werner, "Smoothing ADMM for sparse-penalized quantile regression with non-convex penalties," IEEE Open Journal of Signal Processing, vol. 5, pp. 213-228, 2024.

[84] F. Gauthier, V. C. Gogineni, S. Werner, Y. Huang and A. Kuh, "Personalized graph federated learning with differential privacy," IEEE Transactions on Signal and Information Processing over Networks, 2023.

[83] V. C. Gogineni, A. Moradi, N. K. D. Venkategowda and S. Werner, "Communication-efficient and privacy-aware distributed learning," IEEE Transactions on Signal and Information Processing over Networks, 2023.

[82] F. Gauthier, V. C. Gogineni, S. Werner, Y. Huang and A. Kuh, "Asynchronous online federated learning with reduced communication requirements," IEEE Internet of Things Journal, 2023.

[81] V. C. Gogineni, S. Werner, F. Gauthier, Y. Huang and A. Kuh, "Personalized online federated learning for IoT/CPS: Challenges and future directions," IEEE Internet of Things Magazine, vol. 5, pp. 78–84, December 2022.

[80] V. C. Gogineni, S. Werner, Y. Huang and A. Kuh, "Communication-efficient online federated learning strategies for kernel regression," IEEE Internet of Things Journal, vol. 10, pp. 4531–4544, March 2023.

[79] V. C. Gogineni, R. Sambangi, D. Alex, S. Mula and S. Werner, "Algorithm and architecture design of random Fourier features-based kernel adaptive filters," IEEE Transactions on Circuits and Systems I: Regular Papers, vol. 70, pp. 833–845, February 2023.

[78] A. Moradi, N. K. D. Venkategowda, S. Werner, "Total variation based distributed Kalman filtering for resiliency against Byzantines," IEEE Sensors Journal, vol. 23, pp. 4228–4238, January 2023.

[77] V. Wattin Håkansson, N. K. D. Venkategowda, S. Werner, P. K. Varshney, "Optimal transmission-constrained scheduling of spatio-temporally dependent observations using age-of-information," IEEE Sensors Journal, vol. 22, pp. 15596–15606, August 2022.

[76] A. Daney, V. C. Gogineni, S. V. Mula, S. Werner, "Novel VLSI architecture for fractional-order correntropy adaptive filtering algorithm," IEEE Transactions on Very Large Scale Integration (VLSI) Systems, vol. 30, pp. 893-904, July 2022.

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[73] V. R. M. Elias, V. C. Gogineni, W. A. Martins, S. Werner, "Kernel regression over graphs using random Fourier features," IEEE Transactions on Signal Processing, vol.70, pp. 936–949, 2022.

[72] C. Gratton, N. K. D. Venkategowda, R. Arablouei, S. Werner, "Privacy-preserved distributed learning with zeroth-order optimization," IEEE Transactions on Information Forensics & Security, vol. 17, pp. 265-279, 2022.

[71] V. C. Gogineni, P. Talebi, S. Werner, "Performance of clustered multitask diffusion LMS suffering from inter-node communication delays," IEEE Transactions on Circuits and Systems, II, Express Briefs, vol. 68, pp. 2695–2699, July 2021.

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[65] P. Talebi, S. Werner, D. Mandic "Quarternion-valued distributed filtering and control," IEEE Transactions Automatic Control, vol. 65, pp. 4246–4257, October 2020.

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A2. Review article, Literature review, Systematic review

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A3. Book section, chapters in research books

[4] N. K. D. Venkategowda, A. Moradi, S. Werner, "Privacy-preserving distributed Kalman filters," In José A. Apolinário Jr. (Ed.), *Wireless Sensor Networks in Smart Environments: Enabling Digitalization*, IEEE-Wiley Sensors Books (2025).

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A4. Conference proceedings

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[148] R. Mirzaeifard, V. C. Gogineni, N. K. D. Venkategowda, S Werner, "Distributed quantile regression with non-convex sparse penalties," Statistical Signal Processing Workshop, SSP, Hanoi, Vietnam, July 2023.

[147] F. Gauthier, V. C. Gogineni, S. Werner, "Networked personalized federated learning using reinforcement learning," IEEE International Conference on Communications, ICC, May 2022.

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[145] F. Gauthier, V. C. Gogineni, S. Werner, Y. Huang and A. Kuh, "Clustered graph federated personalized learning," IEEE Asilomar Conference on Signals, Systems and Computers, ACSSC, Pacific Grove, CA, USA, November 2022.

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[143] R. Mirzaeifard, N. K. D. Venkategowda, V. C. Gogineni, S. Werner, "Sparse-penalized quantile regression with non-convex penalties," European Signal Processing Conference, EUSIPCO, Belgrade, Serbia, August 2022.

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[141] S. P. Talebi, S. Werner and D. P. Mandic, "Fractional-Order Learning Systems," International Joint Conference on Neural Networks, IJCNN, Italy, July 2022.

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[139] S. P. Talebi, H. Darvishi, S. Werner, P. S. Rossi, "Gradient-descent adaptive filtering using gradient adaptive step-size," IEEE Sensor Array and Multichannel Signal Processing Workshop, SAM, Trondheim, Norway, June 2022.

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[134] V. C. Gogineni, V. Naumova, S. Werner, Y.-H. Huang, "Graph kernel recursive least-squares algorithm," Asia-Pacific Signal and Information Processing Conference, December 2021 (Best Paper Award).

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[14] S. Werner, J. A. Apolinário Jr., M. L. R. de Campos, "Data-selective constrained affine projection algorithm," IEEE International Conference on Acoustics, Speech, and Signal Processing, ICASSP, Salt Lake City, Utah, USA, May 2001.

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B. Non-refereed scientific articles

B1. Non-refereed journal articles

[1] S. Werner, F. Gregorio, J. Cousseau, J. Figueroa, R. Wichman, "Broadband power amplifier nonlinearity cancellation in OFDM systems," Acta Technica Napocensis - Electronics and Telecommunications, vol. 49, no. 4/2008, pp. 19–22.

G. Theses

G4. Doctoral dissertation (monograph)

[1] Dr. Tech. Thesis: Reduced Complexity Adaptive Filtering Algorithms with Applications to Communications Systems, Helsinki University of Technology, Department of Electrical Engineering, Signal Processing Laboratory, October 2002.