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List of Publications (10 May 2021)

G. Ford, B. Foster, M. Liston and M. Kam: "Unknown Signal Detection in Interference and Noise using Hidden Markov Models," Proceedings of the 2021 IEEE Statistical Signal Processing Workshop (SSP), Rio de Janeiro, July 2021.

W. Dong and M. Kam: "Parallel Decision Fusion with Local Constraints," Proceedings of the 55th Annual Conference on Information Sciences and Systems (CISS), Johns Hopkins University, Baltimore, MD, March 2021.

W. Dong and Moshe Kam: "Dependent Randomization in Parallel Binary Decision Fusion," *IEEE/CAA Journal of Automatica Sinica*, 8(2), 361-376, 2021.

P. Abichandani, D. Lobo, G. Ford, D. Bucci and M. Kam: "Wind Measurement and Simulation Techniques in Multi-Rotor Small Unmanned Aerial Vehicles," *IEEE Access*, vol. 8, pp. 54910-54927, 2020, doi: 10.1109/ACCESS.2020.2977693.

Ludvik Alkhoury, Ji-won Choi, Chizhong Wang, Arjun Rajasekar, Sayandeep Acharya, Sean Mahoney, Barry S. Shender, Leonid Hrebien and Moshe Kam: "Heart-rate tuned comb filters for processing photoplethysmogram (PPG) signals in pulse oximetry," *Journal of Clinical Monitoring and Computing* (2020). <https://doi.org/10.1007/s10877-020-00539-2>

R. Rajasekar; S. Acharya; B. S. Shender; C. Rorres; L. Hrebien; M. Kam: "Correlation of Cognitive Scores and the Onset of Hypoxia", *Aerospace Medicine and Human Performance*, Vol. 90, No. 5, pp. 429-439, May 2019.

Ji-won Choi, Chizhong Wang, Leonardo F. Urbano, Puneet Masson, Matthew VerMilyea, and Moshe Kam: Classification and Clustering of Human Sperm Swimming Patterns, Proceedings of the 2018 IEEE 3rd International Conference on Signal and Image Processing, pp. 192-196, 2018.

Chizhong Wang; Ji-won Choi; Leonardo F. Urbano; Puneet Masson; Matthew VerMilyea; Moshe Kam: Tracking of Human Sperm in Time-Lapse Images, Proceedings of the 2018 IEEE 3rd International Conference on Signal and Image Processing, pp. 197-201, 2018.

A.D. Borgaonkar, J. Sodhi, M. Kam, and S-H Hou: Impact of initiatives for helping first year students start on track in mathematics sequence. Proceedings of the ASEE Annual Conference and Exposition, 2018.

A.D. Borgaonkar, J. Sodhi, S-H Hou, and M. Kam: An application-oriented course to improve student performance in mathematics courses. Proceedings of the ASEE Annual Conference and Exposition, 2018.

L. Fridman; S. Weber; R. Greenstadt; M. Kam: "Active Authentication on Mobile Devices via Stylometry, Application Usage, Web Browsing, and GPS Location," *IEEE Systems Journal*, Vol. 11, No. 2, pp. 513-521, June 2017.

S. Acharya; R. Arjun; B. S. Shender; L. Hrebien; M. Kam: "Real-Time Hypoxia Prediction Using Decision Fusion," *IEEE Journal of Biomedical and Health Informatics*, Vol. 21, No. 3, May 2017.

L. F. Urbano; P. Masson; M. VerMilyea; M. Kam: "Automatic Tracking and Motility Analysis of Human Sperm in Time-Lapse Images," *IEEE Transactions on Medical Imaging*, Vol. 36, No. 3, pp. 792-801, March 2017.

R. Measel; C. S. Lester; D.J. Bucci; K. Wanuga; G. Tait; R. Primerano; K. R. Dandekar; M. Kam: "An Empirical Study on the Performance of Wireless OFDM Communications in Highly Reverberant Environments," *IEEE Transactions on Wireless Communications*, Vol. 15, No. 7, pp. 4802-4812, July 2016.

F. Xiong; M. Kam; L. Hrebien; B. Wang; Yanjun Qi: "Kernelized Information-Theoretic Metric Learning for Cancer Diagnosis Using High-Dimensional Molecular Profiling Data," *ACM Transactions on Knowledge Discovery from Data*, Vol. 10, No. 4, Article 38, May 2016.

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S. Acharya; A. Rajesekar; M. Kam: "Pulse oximeter signal fusion for robust hypoxia detection," *Aerospace Medicine and Human Performance*, Vol. 86, No. 5, pp. 495-496, 2015.

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[Book] P. Abichandani; H. Benson; M. Kam: "*Mathematical Programming Approaches for Multi-Vehicle Motion Planning: Linear, Nonlinear, and Mixed Integer Programming*," Boston-Delft: Now Publishers, *Foundations and Trends in Robotics* series, Vol. 2, No. 4, pp. 80, November 2013.

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