

Jonathan Zia

- Affiliate, Department Funds
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Publications

PUBLICATIONS

- **A Comparison of Normalization Techniques for Individual Baseline-Free Estimation of Absolute Hypovolemic Status Using a Porcine Model.** *Biosensors*
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- **Synthetic seismocardiogram generation using a transformer-based neural network** *JOURNAL OF THE AMERICAN MEDICAL INFORMATICS ASSOCIATION*
Nikbakht, M., Gazi, A. H., Zia, J., An, S., Lin, D. J., Inan, O. T., Kamaleswaran, R.
2023; 30 (7): 1266-1273
- **Classification of Blood Volume Decompensation State via Machine Learning Analysis of Multi-Modal Wearable-Compatible Physiological Signals.** *Sensors (Basel, Switzerland)*
Chalumuri, Y. R., Kimball, J. P., Mousavi, A., Zia, J. S., Rolfes, C., Parreira, J. D., Inan, O. T., Hahn, J. O.
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- **Unifying the Estimation of Blood Volume Decompensation Status in a Porcine Mode of Relative and Absolute Hypovolemia Via Wearable Sensing** *IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS*
Kimball, J. P., Zia, J. S., An, S., Rolfes, C., Hahn, J., Sawka, M. N., Inan, O. T.
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- **Machine learning to extract muscle fascicle length changes from dynamic ultrasound images in real-time** *PLOS ONE*
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- **Knee Acoustic Emissions as a Digital Biomarker of Disease Status in Juvenile Idiopathic Arthritis** *FRONTIERS IN DIGITAL HEALTH*
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- **Enabling the assessment of trauma-induced hemorrhage via smart wearable systems** *SCIENCE ADVANCES*
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2020; 6 (30): eabb1708
- **Utilizing Neural Networks to Predict Freezing of Gait in Parkinson's Patients**
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