

Assistant Professor Mark V. Albert Department of Computer Science and Engineering Department of Biomedical Engineering

UNIVERSITY OF NORTH TEXAS:

Biomed-AI.com





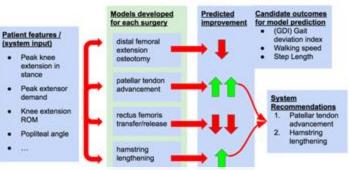




Assistant Professor, Director of Biomedical Artificial Intelligence Lab Research Group: 7 PhD, 5 MS, 10 BS

Integrated Deep Learning, Software Deployment, and Validation for Medical Outcomes Assessment

Data-driven Clinical Outcomes Prediction



- Deep learning and traditional machine learning to measure, <u>succinctly summarize</u>, and predict clinical outcomes
- End-to-end development and deployment through integrated teams
- Unsupervised ML relations to sensory computational neuroscience explored
- Emphasis on validation strategies for robust, real-world clinical application

Real-time fall detection and response

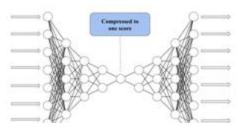


Treatment scoring and suggestion,

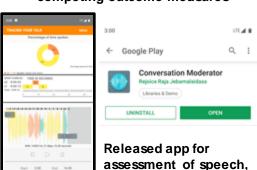
Systems and Methods for a Rehabilitation Dashboard (US Patent App. 14/468,051)



Autoencoders for summarizing high-dimensional sensor-based metrics and outcome measures



Single metric represented overall functional ability 50% better than competing outcome measures



tailoring for aphasia