Instructor Biography

Dr. Erhan Guven
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Dr. Erhan Guven is a Data Scientist and a member of the Senior Professional Staff at the Applied Physics Laboratory.

Dr. Guven's current research includes Machine Learning applications (such as deep learning, support vector machines, random forest) to image, speech, text, and disease data. He is also active in cybersecurity research, graph analytics, optimization and generalized clustering techniques such as Latent Dirichlet Allocation. He authored and co-authored several publications studying problems in speech emotion detection, disease forecasting and cybersecurity.

Before joining JHU APL, he has been a research affiliate at The George Washington University. His research included signal processing, speech, music information retrieval, authorship attribution, plagiarism detection, swarm intelligence, statistical learning, data mining, text mining, supervised, unsupervised, reinforcement-based machine learning applications. Previously his research also included bioinformatics and working with the HG18 genome, exon sequences, SEER medical databases, alternative splicing, motif and binding site detection problems. Previously, he had been working as a R&D engineer for Texas Instruments. He holds 3 U.S. patents for Voice over IP and 1 U.S. patent application describing a method of speech emotion detection.