Dean Krusienski, Ph.D.

Professor and Graduate Program Director, Department of Biomedical Engineering | B.S., M.S., Ph.D., The Pennsylvania State University at VCU College of Engineering
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Focusing on neural signal processing and analysis for the development of brain-computer interfaces and neuroprosthetic devices.

Biography

Dean J. Krusienski received the B.S., M.S., and Ph.D. degrees in electrical engineering from The Pennsylvania State University, University Park, PA. He completed his postdoctoral research at the New York State Department of Health?s Wadsworth Center Brain-Computer Interface (BCI) Laboratory in Albany, NY. His primary research focus is on the application of advanced signal processing and pattern recognition techniques to brain-computer interfaces, which allow individuals with severe neuromuscular disabilities to communicate and interact with their environments using their brainwaves. His research interests include decoding and translation of neural signals, digital signal and image processing, machine learning, evolutionary algorithms, artificial neural networks, and biomedical and musical applications. His research is supported by the National Science Foundation (NSF), the National Institutes of Health (NIH), and the National Institute of Aerospace (NIA)/NASA.

Areas of Expertise

EEG Analysis, Brain-Computer Interfaces, Signal Processing, Machine Learning, Neuroprosthetics

Education

The Pennsylvania State University
Doctor of Philosophy Electrical Engineering

The Pennsylvania State University
Master of Science Electrical Engineering

The Pennsylvania State University
Bachelor of Science Electrical Engineering