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Type: **Presentation**

Stochastic vs. BFGS Training in Neural Discrimination of RF-Modulation

Thursday, July 7, 2022 12:05 PM (15 minutes)

Neuromorphic classification of RF-Modulation type is an on-going topic in SIGINT applications. Neural network training approaches are varied, each being suited to a certain application. For exemplification I show the results for BFGS (Broyden-Fletcher-Goldfarb-Shanno) optimisation in discriminating AM vs FM modulation and of stochastic optimisation for the challenging case of AM-LSB vs. AM-USB discrimination. Although slower than BFGS, the stochastic training of a neural network avoids better local minima, obtaining a stable neurocore.

Agreement to place

Participants agree to post their abstracts and presentations online at the workshop website. All materials will be placed in the form in which they were provided by the authors

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