

The Name of the Title is Hope

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CCS Concepts: • **Computer systems organization** → **Embedded systems**; *Redundancy*; Robotics; • **Networks** → Network reliability.

Additional Key Words and Phrases: datasets, neural networks, gaze detection, text tagging

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1 SEMI-SUPERVISED LEARNING

To assist in the frequent training with a small-labeled training set (in our domain, few gestures), both supervised and unsupervised adaptation methods have been proposed. While unsupervised methods are user-friendly because the unlabeled training set is continuously acquired in the interaction between the myoelectric interface and users, they tend to achieve lower performance than supervised methods [? ? ?]. When it comes to supervised adaptation techniques, many based on different machine learning algorithms have been studied, including support vector machines (SVM) [? ? ?], convolutional neural networks (CNN) [? ?], and discriminant analysis (DA) classifiers.

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