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patterned neuronal networks for robotics, neurocomputing ... - patterned neuronal networks for robotics, neurocomputing, toxin detection and rehabilitation 5a. contract number g 5b. grant number 5c. program element number 6. author(s) 5d. project number 5e. task number 5f. work unit number 7. performing organization name(s) and address(es) nanoscience technology center, university of central florida ...

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hebbian learning and gradient descent learning - hebbian learning is never going to get a perceptron to learn a set of training data. there exist variations of hebbian learning, such as contrastive hebbian learning, that do provide powerful supervised learning for biologically plausible networks. however, it has been shown that, for many relevant cases, much simpler non-

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