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# Neural Synchronization and Light-weight Cryptography in Embedded Systems

By Oscar Mauricio Reyes Torres

Shaker Verlag Aug 2012, 2012. Buch. Book Condition: Neu. Neuware - Synchronization is a phenomenon that is widely studied in different fields. In the case of artificial neural networks, two feed-forward networks can eventually synchronize by exchanging their outputs and applying a suitable learning rule. The dynamics of this process has been studied for the so-called permutation parity machine. This is a binary variant of the well-known tree parity machine in which the weights are small integers that are not adjusted, but completely replaced during each learning step. In the permutation parity machine, a new set of weights is pseudorandomly drawn from a pool of binary data after the outputs have been exchanged. Synchronization is a result of competing stochastic forces given by a sequence of increasing and decreasing overlaps. This sequence constitutes a random process endowed with the Markov property. More concretely, the mutual learning process can be described by a first-order Markov chain where synchronization amounts to the stationarity of the chain. Nowadays, cryptography plays an ever more important role in information security given the countless scenarios in which information exchange requires different levels of privacy, secrecy or reliability. To this end, cryptographic algorithms based on neural synchronization...



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