



Discrete-Time High Order Neural Control: Trained with Kalman Filtering (Studies in Computational Intelligence)

Edgar N. Sanchez, Alma Y. Alanís, Alexander G. Loukianov

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Neural networks have become a well-established methodology as exemplified by their applications to identification and control of general nonlinear and complex systems; the use of high order neural networks for modeling and learning has recently increased.

Using neural networks, control algorithms can be developed to be robust to uncertainties and modeling errors. The most used NN structures are Feedforward networks and Recurrent networks. The latter type offers a better suited tool to model and control of nonlinear systems. There exist different training algorithms for neural networks, which, however, normally encounter some technical problems such as local minima, slow learning, and high sensitivity to initial conditions, among others. As a viable alternative, new training algorithms, for example, those based on Kalman filtering, have been proposed. There already exists publications about trajectory tracking using neural networks; however, most of those works were developed for continuous-time systems. On the other hand, while extensive literature is available for linear discrete-time control system, nonlinear discrete-time control design techniques have not been discussed to the same degree. Besides, discrete-time neural networks are better suited for real-time implementations.

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