

عنوان مقاله:

On-Line Learning and Model Improvement with Wave-Nets

محل انتشار:

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خلاصه مقاله:

The technological advancement in the computer controlled systems and other areas in the process industries makes available continuous stream of data to be exploited utilizing on-line systems environment. This paper investigates procedures for on-line learning and improvement with wave-nets utilizing such a stream of data. Wave-nets are wavelet-based neural networks with localized and hierarchical multi-resolution learning. The multi-resolution framework of wave-net and its learning algorithms are briefly explained. Then based on the learning algorithms, procedures for on-line wave-net improvements are proposed and the verifications are performed with some case studies. The results show effectiveness of the methods.

کلمات کلیدی:

Wave-Nets, on-line learning, neural networks, CSTR

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