



## ELM in nonstationary environment

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By Yibin Ye

LAP Lambert Academic Publishing Jun 2014, 2014. Taschenbuch. Book Condition: Neu. 220x150x5 mm. This item is printed on demand - Print on Demand Neuware - System identification in nonstationary environment represents a challenging problem and an advanced neural architecture namely Time-Varying Neural Networks (TV-NN) has shown remarkable identification properties in nonlinear and nonstationary conditions. Time-varying weights, each being a linear combination of a certain set of basis functions, are used in such kind of networks instead of stable ones, which inevitably increases the number of free parameters. Therefore, an Extreme Learning Machine (ELM) approach is developed to accelerate the training procedure for TV-NN. What is more, in order to obtain a more compact structure, or determine several important parameters, or update the network more efficiently in online case, several variants of ELM-TV are proposed and discussed in the book. Related computer simulations have been carried out and show the effectiveness of the algorithms. 88 pp. Englisch.



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