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Neural Networks and Micromechanics



Vahid Monfared

Neural Networks and Micromechanics Ernst Kussul, Tatiana Baidyk, Donald C. Wunsch, 2009-12-01 Micromechanical manufacturing based on microequipment creates new possibi ties in goods production If microequipment sizes are comparable to the sizes of the microdevices to be produced it is possible to decrease the cost of production drastically The main components of the production cost material energy space consumption equipment and maintenance decrease with the scaling down of equipment sizes To obtain really inexpensive production labor costs must be reduced to almost zero For this purpose fully automated microfactories will be developed To create fully automated microfactories we propose using arti cial neural networks having different structures. The simplest perceptron like neural network can be used at the lowest levels of microfactory control systems Adaptive Critic Design based on neural network models of the microfactory objects can be used for manufacturing process optimization while associative projective neural n works and networks like ART could be used for the highest levels of control systems We have examined the performance of different neural networks in traditional image recognition tasks and in problems that appear in micromechanical manufacturing We and our colleagues also have developed an approach to mic equipment creation in the form of sequential generations Each subsequent gene tion must be of a smaller size than the previous ones and must be made by previous generations Prototypes of rst generation microequipment have Neural Networks and Micromechanics Ernst Kussul, Tatiana Baidyk, Donald C. been developed and assessed Wunsch, 2010-05-06 Micromechanical manufacturing based on microequipment creates new possibi ties in goods production If microequipment sizes are comparable to the sizes of the microdevices to be produced it is possible to decrease the cost of production drastically The main components of the production cost material energy space consumption equipment and maintenance decrease with the scaling down of equipment sizes To obtain really inexpensive production labor costs must be reduced to almost zero For this purpose fully automated microfactories will be developed To create fully automated microfactories we propose using arti cial neural networks having different structures. The simplest perceptron like neural network can be used at the lowest levels of microfactory control systems Adaptive Critic Design based on neural network models of the microfactory objects can be used for manufacturing process optimization while associative projective neural n works and networks like ART could be used for the highest levels of control systems We have examined the performance of different neural networks in traditional image recognition tasks and in problems that appear in micromechanical manufacturing We and our colleagues also have developed an approach to mic equipment creation in the form of sequential generations Each subsequent gene tion must be of a smaller size than the previous ones and must be made by previous generations Prototypes of rst generation microequipment have been developed and assessed **Artificial Neural Networks in Continuum Micromechanics** Alexander Henkes, 2022 Artifical Neural Networks in Continuum Micromechanics Alexander Henkes, 2022 **Application of Artificial Neural Networks to Composite Ply**

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