

Contents

P.J. Braspenning <i>Introduction: Neural Networks as Associative Devices</i>	1
A.J.M.M. Weijters and G.A.J. Hoppenbrouwers <i>Backpropagation Networks for Grapheme-Phoneme Conversion: a Non-Technical Introduction</i>	11
J. Henseler <i>Back Propagation</i>	37
H.J.M. Peters <i>Perceptrons</i>	67
O.J. Vrieze <i>Kohonen Network</i>	83
E.O. Postma and P.T.W. Hudson <i>Adaptive Resonance Theory</i>	101
F.C.R. Spieksma <i>Boltzmann Machines</i>	119
J.H.J. Lenting <i>Representation Issues in Boltzmann Machines</i>	131
E.O. Postma <i>Optimization Networks</i>	145
Y. Crama, A.W.J. Kolen and E.J. Pesch <i>Local Search in Combinatorial Optimization</i>	157
P. Boekhoudt <i>Process Identification and Control</i>	175
W.T.C. van Luenen <i>Learning Controllers Using Neural Networks</i>	205
H.R.A. Cardon and R. Hoogstraten <i>Key Issues for Succesful Industrial Neural-Network Applications: an Application in Geology</i>	235
P.J. Braspenning <i>Neural Cognodynamics</i>	247
P.T.W. Hudson and E.O. Postma <i>Choosing and Using a Neural Net</i>	273
<i>Supporting General Literature</i>	289
<i>Addresses of the Authors</i>	295