

COMPUTER NETWORKS

ARTIFICIAL NEURAL NETWORK TRAINING AND SOFTWARE IMPLEMENTATION TECHNIQUES



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Artificial Neural Network Training And Software Implementation Techniques Computer Networks

Brendan G. Carr



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Artificial Neural Network Training and Software Implementation Techniques Ali Kattan, Rosni Abdullah, Zong Woo Geem, 2011 Artificial neural networks ANN are widely used in diverse fields of science and industry Though there have been numerous techniques used for their implementations the choice of a specific implementation is subjected to different factors including cost accuracy processing speed and overall performance Featured with synaptic plasticity the process of training is concerned with adjusting the individual weights between each of the individual ANN neurons until we can achieve close to the desired output This book introduces the common trajectory driven and evolutionary based ANN training algorithms

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Software Engineering Methods Design and Application Radek Silhavy, Petr Silhavy, 2024-10-22 This book dives into contemporary research methodologies

emphasising the innovative use of machine learning and statistical techniques in software engineering Exploring software engineering and its integration into system engineering is pivotal in advancing computer science research It features the carefully reviewed proceedings of the Software Engineering Research in System Science session of the 13th Computer Science Online Conference 2024 CSOC 2024 held virtually in April 2024 Software Engineering: Emerging Trends and Practices in System Development Radek Silhavy,Petr Silhavy,2025-11-14 This book discovers peer reviewed research from an international research conference that unites experts in software engineering data science artificial intelligence cybernetics and informatics This book presents cutting edge methods practical case studies and foundational advances that address real world challenges across the computational spectrum Whether you seek rigorous theory proven development practices or visionary perspectives on emerging technologies this book provides a comprehensive resource for researchers practitioners and students committed to shaping the future of digital systems Scientific and Technical Aerospace Reports ,1995

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