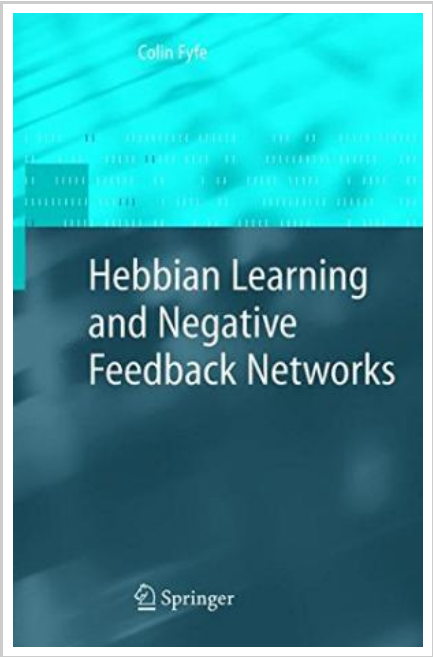


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Hebbian Learning and Negative Feedback Networks

By Colin Fyfe

Springer. Hardcover. Book Condition: New. Hardcover. 383 pages. Dimensions: 9.2in. x 6.2in. x 0.9in.This book is the outcome of a decades research into a specic architecture and associated learning mechanism for an articial neural network: the - chitecture involves negative feedback and the learning mechanism is simple Hebbian learning. The research began with my own thesis at the University of Strathclyde, Scotland, under Professor Douglas McGregor which culminated with me being awarded a PhD in 1995 52, the title of which was Negative Feedback as an Organising Principle for Articial Neural Networks. Naturally enough, having established this theme, when I began to sup- vise PhD students of my own, we continued to develop this concept and this book owes much to the research and theses of these students at the Applied Computational Intelligence Research Unit in the University of Paisley. Thus we discuss work from Dr. Darryl Charles 24 in Chapter 5. Dr. Stephen McGlinchey 127 in Chapter 7. Dr. Donald MacDonald 121 in Chapters 6 and 8. Dr. Emilio Corchado 29 in Chapter 8. We briey discuss one simulation from the thesis of Dr. Mark Girolami 58 in Chapter 6 but do not discuss any of the rest of...

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