Self-Organising Maps: Applications in Geographic Information Science brings together innovative geographic research involving use of the self-organising map (SOM) method.

The range of applications in this book demonstrates how innovative artificial intelligence and neural network methods such as SOMs offer novel opportunities to geospatial experts and how these tools can be adapted for specific geographic needs. The book begins with an overview of the SOM technique and the most commonly used (and often freely available) software. It then looks at different uses of the technique, namely clustering, data mining, and cartography, from a range of application areas in physical and socio-economic environments.

This book will be an invaluable reference to researchers in the field who are looking for a comprehensive overview of the subject, by providing a clear explanation and understanding of this novel technique. Advanced undergraduates and post-graduates undertaking a research project in GIScience techniques will also find this book useful.

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