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**Bonilla y Asociados**  
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**Título:** Self - Organizing Maps

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**Precio:** \$1667.50

**Editorial:**

**Año:** 2001

**Tema:**

**Edición:** 3ª

**Sinopsis**

**ISBN:** 9783540679219

The Self-Organizing Map (SOM), with its variants, is the most popular artificial neural network algorithm in the unsupervised learning category. Many fields of science have adopted the SOM as a standard analytical tool: in statistics, signal processing, control theory, financial analyses, experimental physics, chemistry and medicine. A new area is organization of very large document collections. The SOM is also one of the most realistic models of the biological brain functions.

This new edition includes a survey of over 2000 contemporary studies to cover the newest results; the case examples were provided with detailed formulae, illustrations and tables; a new chapter on software tools for SOM was written, other chapters were extended or reorganize