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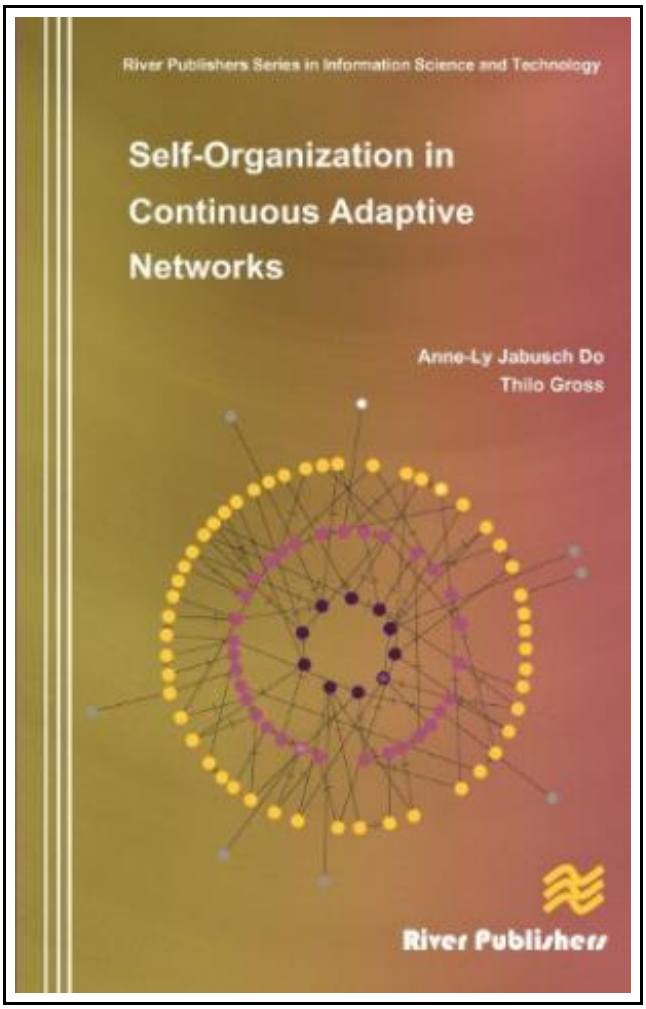

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SELF-ORGANIZATION IN CONTINUOUS ADAPTIVE NETWORKS (HARDBACK)

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River Publishers, Denmark, 2012. Hardback. Book Condition: New. 234 x 156 mm. Language: English . Brand New Book. In the last years, adaptive networks have been discovered simultaneously in different fields as a universal framework for the study of self-organization phenomena. Understanding the mechanisms behind these phenomena is hoped to bring forward not only empirical disciplines such as biology, sociology, ecology, and economy, but also engineering disciplines seeking to employ controlled emergence in future technologies. This volume presents new analytical approaches, which combine tools from dynamical systems theory and statistical physics with tools from graph theory to address the principles behind adaptive self-organization. It is the first class of approaches that is applicable to continuous networks. The volume discusses the mechanisms behind three emergent phenomena that are prominently discussed in the context of biological and social sciences: synchronization, spontaneous diversification, and self-organized criticality. Self-organization in continuous adaptive networks contains extended research papers. It can serve as both, a review of recent results on adaptive self-organization as well as a tutorial of new analytical methods Self-organization in continuous adaptive networks is ideal for academic staff and master/research students in complexity and network sciences, in engineering, physics and maths. Contents: Introduction; 1. Concepts and Tools; 2. Topological stability criteria for synchronized states; 3. Patterns of cooperation; 4. Self-organized criticality; 5. Conclusions and future research; Bibliography; Keyword Index; List of abbreviations.

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