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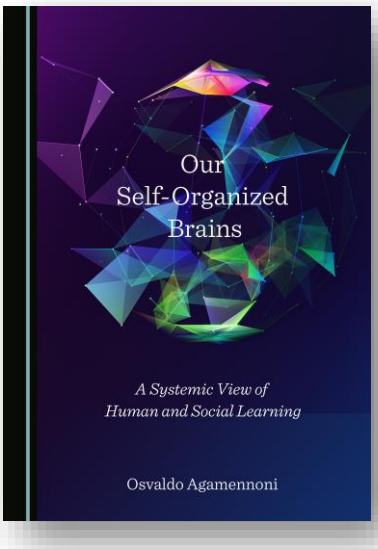
Our Self-Organized Brains
A Systemic View of Human and Social Learning
By Osvaldo Agamennoni



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Book Description

This book describes the dynamic nature of the brain and its mechanisms to develop cognitive skills, specifically learning. It will facilitate the reader's appreciation and understanding of many concepts linked to cognition using a systemic approach to neuroscience.

It introduces concepts of feedback control systems and self-organized systems that allow brain dynamics to be approached systemically, facilitating a holistic comprehension. The book is written in plain language and uses a wide variety of examples to facilitate its reading and understanding. It will serve to promote transdisciplinary communication in readers interested in the study of the fundamental dynamic aspects involved in the human learning process, both individually and socially.

A Word from the Author

This book provides a complete overview of the dynamic processes of the brain, many of them being inherited from our evolutionary processes. In this way, it is possible to appreciate how our emotions and high-level control actions affect not only the human, but also the social learning processes. My inspiration for writing this book came from appreciating that humanity has a huge amount of knowledge at its disposal, which has not yet been applied correctly to face its most important challenges (poverty, hunger, violence, global warming, etc.). This undeniable fact has motivated me to study the principles of individual and social learning, as an attempt to understand what the main topics, to be paid attention to, are. Differing from similar titles, this book focuses on the feedback and self-organizing nature of the brain to facilitate the comprehension of a great variety of processes related to human and social behaviour, particularly those related to cognition.

About the Author

Osvaldo Agamennoni has a Bachelor's degree in Electronics and a PhD in Control Science, both from Universidad Nacional del Sur (National University of the South), Argentina. He also obtained postdoctoral experience at the University of Sydney (1992-1994), working on an artificial intelligence project. His research focuses on areas such as nonlinear dynamics and control, neural networks, machine learning, and neuroscience. For the last 15 years, he has been working on the evaluation of mild cognitive impairment through the modelling of eye movements. He is the co-founder of View Mind (https://viewmind.com.ar/en/), a start-up dedicated to keeping track of executive, attentional and memory functions, and related brain activities, through 10-minute, non-invasive, standardize automatized evaluation.

Our Self-Organized Brains: A Systemic View of Human and Social Learning is available now in Hardback from the Cambridge Scholars website, where you can also access a free 30-page sample.