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Titolo	The Scotish dove, sent out and returning Bringing intelligence from their army, and makes some relations of other observable passages of both kingdomes, for information and instruction. [Issue 55]
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2. Record Nr.	UNINA9910299843503321
Autore	Haken Hermann
Titolo	Information Adaptation: The Interplay Between Shannon Information and Semantic Information in Cognition / / by Hermann Haken, Juval Portugali
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Collana	Understanding Complex Systems, , 2191-5326
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Nota di bibliografia

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Nota di contenuto

Shannonian versus semantic information and cognition -- Information versus data -- The empirical basis of information adaptation -- A complexity theory approach to information -- On synergetic computers and other machines -- Pattern recognition as a paradigm of information adaptation -- From general principles of information adaptation to concrete specific models -- Some further applications and discussions of information adaptation.

Sommario/riassunto

This monograph demonstrates the interplay between Shannon information and semantic information in cognition. It shows that Shannon's information acts as driving force for the formation of semantic information; and vice versa, namely, that semantic information participates in the formation of Shannonian information. The authors show that in cognition, Shannonian and semantic information are interrelated as two aspects of a cognitive process termed as information adaptation. In the latter the mind/brain adapts to the environment by the deflating and/or inflating of the information conveyed by the environment. In the process of information adaptation, quantitative variations in Shannon's information entail different meanings while different meanings affect the quantity of information. The book illustrates the above conceptually and mathematically by reference to three cognitive processes: pattern recognition, face learning and the recognition of a moving object.