1. Record Nr. UNINA9910254824703321

Titolo	Cognition Beyond the Brain : Computation, Interactivity and Human Artifice / / edited by Stephen J. Cowley, Frédéric Vallée-Tourangeau
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-49115-6
Edizione	[2nd ed. 2017.]
Descrizione fisica	1 online resource (VIII, 342 p. 44 illus., 28 illus. in color.)
Disciplina	005.437 4.019
Soggetti	User interfaces (Computer systems) Cognitive psychology Cognitive grammar User Interfaces and Human Computer Interaction Cognitive Psychology Cognitive Linguistics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Introduction -- Socially Distributed Cognition in Loosely Coupled Systems -- Distributed Cognition at the Crime Scene -- Thinking with External Representations -- Human Interactivity: Problem-solving, Solution-probing and Verbal Patterns in the Wild -- Linden Ball and Damien Litchfield: Interactivity and Embodied Cues in Problem Solving, Learning and Insight: Further Contributions to a “Theory of Hints -- Cognition beyond the Classical Information Processing Model: Cognitive Interactivity and the Systemic Thinking Model -- Time During Time: Multi-Scalar Temporal Cognition -- Human Agency and the Resources of Reason -- Living as Languaging: Distributed Knowledge in Living Beings -- Cognition in the City -- Computer-mediated Trust in Self-interested Expert Recommendations -- The Cognitive Ecology of the Web -- Material Engagement Theory and Digital Culture -- Organisational Cognition: A Step too Close.
Sommario/riassunto	This book challenges neurocentrism by advocating a systemic view of

cognition based on investigating how action shapes the experience of thinking, placing interactivity at its heart. This systemic viewpoint makes three main claims. First, that many elaborate cognitive skills like language, problem solving and human-computer interaction (HCI) are based in sense-saturated coordination or interactivity. Second, interactivity produces a tightly woven scaffold of resources, some internal to the agent and others external, that elevates and transforms thinking. Third, human agents entwine brains, bodies and their surroundings as they manage multi-scalar dynamics. This new edition continues to demonstrate how a systemic perspective casts a productive light on thinking in applied domains such as crime scene analysis, the use of information technology in construction, and computer-meditated trusts and presents new studies on the cognitive ecology of the web, multi-scalar temporal and organisational cognition and the importance of interactive material engagement in digital architecture. Authors use various scales of the systemic viewpoint to illustrate how bodies and artefacts shape thinking, but in all cases the experience of materiality is meshed with activity that involves the world beyond the body. Cognition Beyond the Brain is a valuable reference for researchers, practitioners and graduate students within the fields of Computer Science, Psychology, Linguistics and Cognitive Sciences.