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Titolo	Coding as literacy : metalithikum IV // edited by Vera Buhlmann, Ludger Hovestadt, Vahid Moosavi
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Nota di contenuto	Frontmatter -- TABLE OF CONTENTS -- ON THE BOOK SERIES -- Introduction - Coding as Literacy -- What Makes the SELF-ORGANIZING MAPS (SOM) so Particular among Learning Algorithms? / Kohonen, Teuvo -- I Elements of a Digital Architecture / Hovestadt, Ludger -- II A Nonanthropocentric Approach to Apperception / Wei, Sha Xin -- III Pre-Specific Modeling: Computational Machines in a Coexistence with Concrete Universals and Data Streams / Moosavi, Vahid -- IV SOM. Self. Organized / Skupin, André -- V The Nature of Local/ Global Distinctions, Group Actions, and Phases: A Sheaf-Theoretic Approach to Quantum Geometric Spectra / Zafiris, Elias -- VI Self-Organizing Maps and Learning Vector Quantization for Complex Data / Hammer, Barbara -- VII The Common Sense of Quantum Theory: Exploring the Internal Relational Structure of Self- Organization in Nature / Epperson, Michael -- VIII GICA: Grounded Intersubjective Concept Analysis. A Method for Improved Research, Communication, and Participation / Honkela, Timo -- IX "Ichnography"-The Nude and Its Model.The Alphabetic Absolute and Storytelling in the Grammatical Case of the Cryptographic Locative / Bühlmann, Vera -- Image references -- Colophon
Sommario/riassunto	Jüngere Entwicklungen in der Informatik, insbesondere "data-driven procedures", haben ein neues Level für Design und Engineering

eröffnet. Davon ist auch die Architektur betroffen. Dieser Band versammelt die Beiträge von Informatikern, Mathematikern, Philosophen, Kulturtheoretikern und Architekten zum Thema Coding as Literacy. Das übergeordnete Interesse gilt dabei der Betrachtung von Computer basierenden Verfahren jenseits eines strikt fallbasierenden und problemlösungs-orientierten Paradigmas: das Thema lädt dazu ein, Computational Procedures als eingebettet in eine übergreifende "Medien Kompetenz" zu verstehen, die sich über eine "computational literacy" erschließen und aneignen lässt, und über die Daten, die in den erwähnten Verfahren verarbeitet werden, auf gewinnbringende Weise in den Begriffen der Quantenphysik nachzudenken. Als konkreten Referenzpunkt für alle weiterführenden Diskussionen werden die sogenannten "Self Organizing Maps" (SOM), welche vor mehr als 30 Jahren eingeführt wurden, in den Blickpunkt gestellt.

Recent developments in computer science, particularly "data-driven procedures" have opened a new level of design and engineering. This has also affected architecture. The publication collects contributions on Coding as Literacy by computer scientists, mathematicians, philosophers, cultural theorists, and architects. The main focus in the book is the observation of computer-based methods that go beyond strictly case-based or problem-solution-oriented paradigms. This invites readers to understand Computational Procedures as being embedded in an overarching "media literacy" that can be revealed through, and acquired by, "computational literacy", and to consider the data processed in the above-mentioned methods as being beneficial in terms of quantum physics. "Self-Organizing Maps" (SOM), which were first introduced over 30 years ago, will serve as the concrete reference point for all further discussions.
