

TIS@IS4SI 2019 Berkeley, 2019 06 03



Recent Books Delineating the Emergent Academic Field of the Study of Information

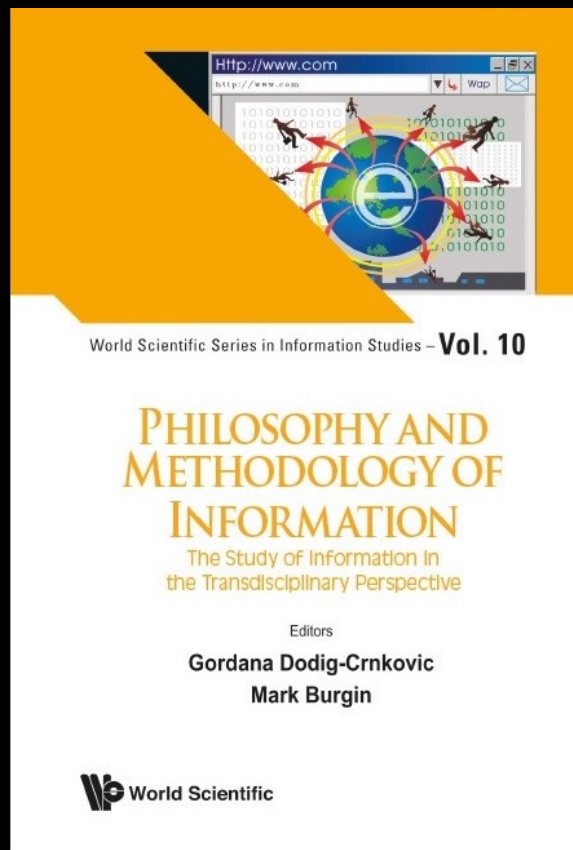
GORDANA DODIG-CRNKOVIC

Chalmers and University of technology, Gothenburg
<http://www.gordana.se>

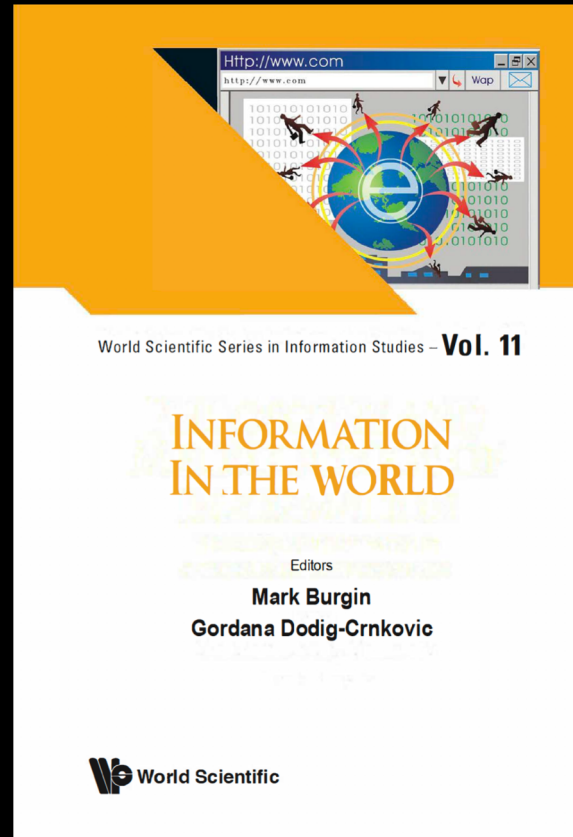
MARK BURGIN

University of California Los Angeles
<http://www.math.ucla.edu/~mburgin/>

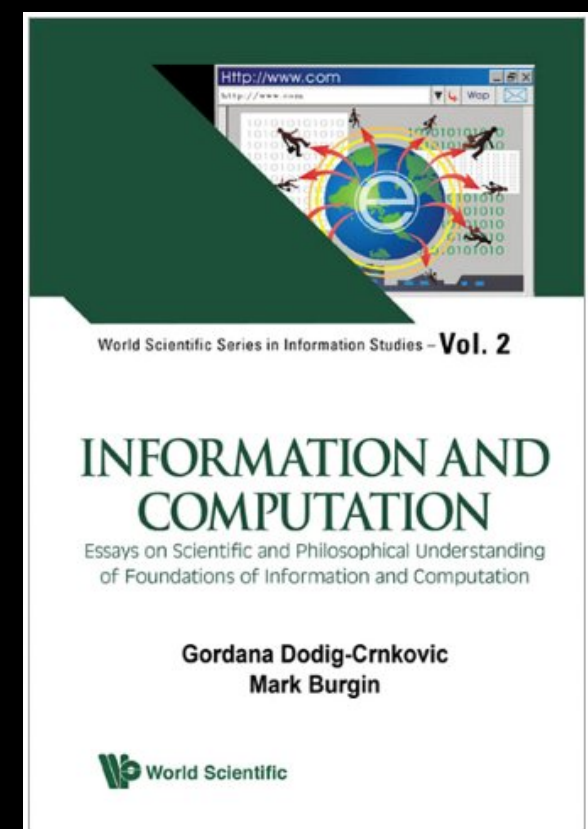
Nature, Information & Computation



*PHILOSOPHY AND METHODOLOGY
OF INFORMATION
Dodig-Crnkovic G. and Burgin M.
World Scientific Series in Information
Studies, May 2019*



*INFORMATION IN THE WORLD
Burgin M. and Dodig-Crnkovic M.
World Scientific Series in Information
Studies, Forthcoming: Sept. 2020*



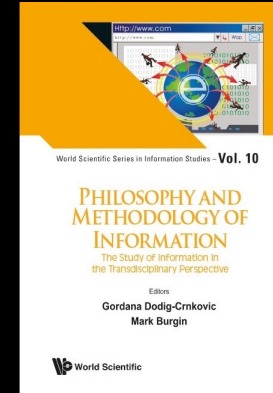
*Information and Computation
Dodig-Crnkovic G. and Burgin M.,
World Scientific, 2011*

PHILOSOPHY AND METHODOLOGY OF INFORMATION

The Study Of Information In The Transdisciplinary Perspective

Introduction

Gordana Dodig-Crnkovic and Mark Burgin:
The Study of Information in the Context of Knowledge Ecology



Part I: Philosophy of Information

Poitr Boltuc: *Subject Is No Object: Complementary Basis of Information*

Joseph E. Brenner: *Information and the Vision of Stephane Lupasco: Science, Logic and Philosophy*

Terrence W. Deacon: *Information or Noise?*

En Wang: *Reflections on the Concept of "Objective Non-Reality" in Information Philosophy*

Lu Wang: *Rethinking Mencius Classical Debate on the Difference Between Humans and Animals Based on the Philosophy of Information*

Kun Wu and Ping Wang: *Philosophy of Information— Radical Changing Force of Philosophy*

Rossella Lupacchini: *In the Light of Shadows: Tracing an Information Profile*

Gustavo Silva Saldanha, Vinícios Souza de Menezes and Rodrigo Porto Bozzetti:

The Philosophy of Information as an Ethical Application of Social Epistemology: Informational Ontogenesis and Philosophical-Symbolic Dilemmas

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The Study Of Information In The Transdisciplinary Perspective

Part II: Methodology of Information

Mark Burgin: Information-Oriented Analysis of Discovery and Invention in Mathematics

Rodolfo A. Fiorini: Evolutive Information in the Anthropocene Era

Lorenzo Magnani: Computationalism in a Dynamic and Distributed Eco-cognitive Perspectiv

Marcin J. Schroeder: Theoretical Study of the Concepts of Information Defined as Difference and as Identification of a Variety

Peizhuang Wang: Factors Space and Mechanism-Based Artificial Intelligence Theory

Rainer E. Zimmermann and Zhang Xiaomeng: Beyond Metaphorization: A Blochian View onto Chaos and Fractality

Part III: Philosophy of the Study of Information

Jordi Vallverdu: The Situated Nature of Informational Ontologies

Zhensong Wang: Discussion on the Necessity of Integrating Information Philosophy and Unified Information Science from the Perspective of Thomas Kuhn's Paradigm Theory

Jun Liu: Research on the Modernity of Confucianism from the Perspective of Philosophy of Information

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Part IV: Methodology of Information Studies

Søren Brier: *Can Cybersemiotics Solve the Problem of Informational Transdisciplinarity?*

Pedro C. Maríjuan and Jorge Navarro: *Ten Principles of Information Science*

Jose Maria Diaz-Nafria, Mark Burgin and Blanca Rodriguez-Bravo: Knowledge Structures and Conceptual Networks for Evaluation of Knowledge Integration

H. C. He, Y. Q. Zhou and Z. C. Chen: Universal Logics for Intelligent Information Processing

O. Kang: Information Ecology and Cognitive Justice: Core Value and Methodological Principles of Information Ecology

Y. X. Zhong: Information Ecology: The Methodology for Information Studies

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Introduction

Mark Burgin and Gordana Dodig-Crnkovic

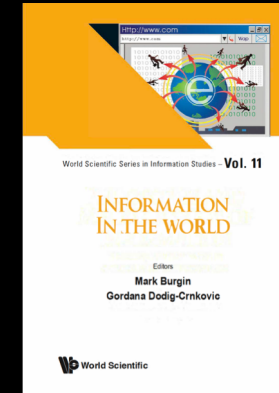
Part I: Foundations of Information

Mark Burgin and Gordana Dodig-Crnkovic: A Multiscale Taxonomy of Information in the World

Meir Buzaglo: Regeneration of Information as Forced Expansion

Gianmarco Tuccini, Roberta Lanfredini and Luca Baronti: Qualitative Stance, Effective Procedures and Common Sense Computation

Yixin Zhong and Gordana Dodig-Crnkovic: A Theory of Semantic Information



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Part II: Information as a Natural Phenomenon

Paul Benioff: The “No Information at a Distance” Principle and Local Mathematics: Some Effects on Physics and Geometry

Rafael Capurro and Mark Burgin: The Structure of the World, Unity of Nature and the Problem of Time

Rafael Capuro: The Debt of Natural Science

Guenther Witzany: Evolution of Genetic Information without Error-Replication

Sungchul Ji: The Molecular Linguistics of DNA

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Mark Burgin: Information Processing by Structural Machines

Rao Mikkilineni: Convergence of Natural and Artificial Intelligence

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Cornelis NJ de Vey Mestdagh: A Model of Complexity for the Legal Domain

Jun Liu: Li Erqu's Theory on Epistemology and Gong Fu Ontology

Ugo Pagallo: Law as Information, and the Impact of Information Technologies

Gengxian Cao, Donghe Li: A Comparative Analysis of Traditional Western and Chinese Music from the Perspective of Complex Information System Theory

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Brier Søren - Cybersemiotics and the question of knowledge

Burgin Mark - Information Dynamics in a Categorical Setting

Chaitin Greg - Leibniz, Complexity & Incompleteness

Collier John - Information, Causation and Computation

Cooper Barry - From Descartes to Turing: The computational Content of Supervenience

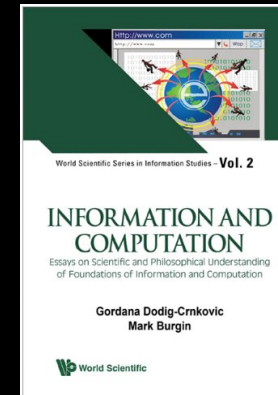
Dodig Crnkovic Gordana and Mueller Vincent - A Dialogue Concerning Two Possible World Systems

Hofkirchner Wolfgang - Does Computing Embrace Self-Organisation?

Kreinovich Vladik & Araiza Roberto - Analysis of Information and Computation in Physics Explains

Cognitive Paradigms: from Full Cognition to Laplace Determinism to Statistical Determinism to

Modern Approach



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World Scientific Publishing Co. Series in Information Studies, 2011

Gordana Dodig-Crnkovic and Mark Burgin

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Menant Christophe - Computation on Information, Meaning and Representations. An Evolutionary Approach

Mestdagh C.N.J. de Vey & Hoepman J.H. - Inconsistent information as a natural phenomenon

Minsky Marvin - Interior Grounding, Reflection, and Self-Consciousness

Riofrio Walter - Insights into the biological computing

Roglic Darko- Super-recursive features of natural evolvability processes and the models for computational evolution

Shagrir Oron - A Sketch of a Modeling View of Computing

Sloman Aaron- What's information, for an organism or intelligent machine? How can a machine or organism mean?

References

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https://books.google.ca/books?id=ir3FCgAAQBAJ&printsec=frontcover&source=gbs_ge_summary_r&cad=0#v=onepage&q&f=false
- Dodig-Crnkovic G. and Burgin, M. (2019) PHILOSOPHY AND METHODOLOGY OF INFORMATION. The Study Of Information In The Transdisciplinary Perspective. World Scientific Series in Information Studies, World Scientific, Singapore.
<https://worldscientific.com/worldscibooks/10.1142/11190>
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<https://worldscientific.com/worldscibooks/10.1142/11191>