



The Reflection of Life: Functional Entailment and Imminence in Relational Biology: 29 (IFSR International Series on Systems Science and Engineering)

A. H. Louie

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??A. H. Louie's *The Reflection of Life: Functional Entailment and Imminence in Relational Biology* is a continuation of the exploratory journey in relational biology which began with his 2009 monograph *More Than Life Itself: A Synthetic Continuation in Relational Biology*. The theme of his first book was 'What is life?'; the theme of this sequel is "How do two life forms interact?" Biology is a subject concerned with organization of relations. Relational biology is the approach that advocates 'function dictates structure', rather than 'structure implies function'. It is mathematics decoded into biological realizations. The book demonstrates some of the powers of the approach of relational biology, and illustrates how pertinent problems in biology can be better addressed this way. In the first volume the theory was developed by using partially ordered sets, lattices, simulations, models, Aristotle's four causes, graphs, categories, simple and complex systems, anticipatory systems, and metabolism-repair [(M,R)-] systems.

Here in the second volume, these tools are expanded to employ set-valued mappings, adjacency matrices, random graphs, and interacting entailment networks. The theory of set-valued mappings culminates in the imminence mapping, which equips the further investigation of functional entailment in complex relational networks. Imminence in (M,R)-networks that model living systems addresses the topics of biogenesis and natural selection. Interacting (M,R)-networks with mutually entailing processes serve as models in the study of symbiosis and pathophysiology. The formalism also provides a natural framework for a relational theory of virology and oncology.

This book will serve researchers and graduate students in mathematics and biology.

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