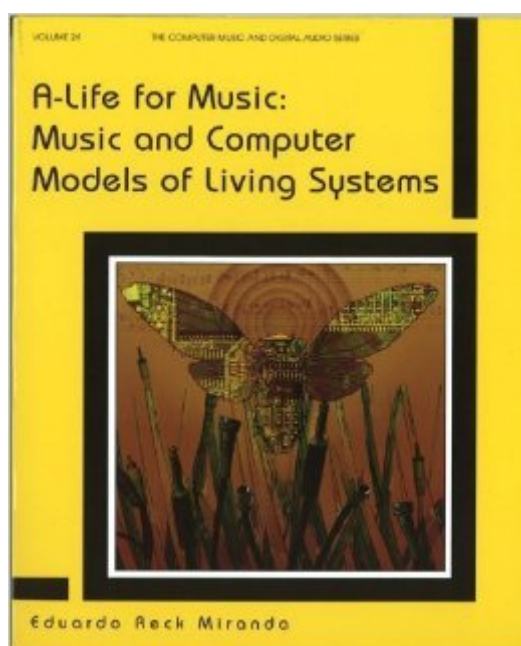


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A-Life For Music: Music And Computer Models Of Living Systems (Computer Music And Digital Audio Series)



Synopsis

Artificial Life, or A-Life, aims at the study of all phenomena characteristic of natural living systems, through computational modeling, wetware-hardware hybrids, and other artificial media. Its scope ranges from the investigation of the emergence of cognitive processes in natural or artificial systems to the development of life or life-like properties from inorganic components. A number of musicians, in particular composers and musicologists, have started to turn to A-Life for inspiration and working methodology. This edited features thirteen chapters written by specialists in this exciting field, and includes a CD with various examples music related to A-Life. Contents Chapter 1: Artificial Anuran Choruses / David M. Michael Chapter 2: Multi-Agent Modeling of Complex Rhythmic Interactions in Real-Time Performance / Arne Eigenfeldt Chapter 3: Using Coevolution in Music Improvisation / David Plans and Davide Morelli Chapter 4: Structural Coupling in a Society of Musical Agents / Peter Beyls Chapter 5: Transformation and Mapping of L-Systems Data in the Composition of a Large-Scale Piece of Music / Nigel Morgan Chapter 6: Generative Composition with Nodal / Jon McCormack and Peter McIlwain Chapter 7: Evolutionary Morphing for Music Composition / Andrew R. Brown, Rene Wooller, and Eduardo R. Miranda Chapter 8: The Evolving Drum Machine / Matthew J. Yee-King Chapter 9: Autonomous Evolution of Piano Pieces and Performances with Ossia II / Palle Dahnstedt Chapter 10: A Biophysically Constrained Multi-Agent Systems Approach to Algorithmic Composition with Expressive Performance / Alexis Kirke and Eduardo R. Miranda Chapter 11: Artificial Evolution of Tuning Systems / Jean-Julien Aucouturier Chapter 12: Replication, Parataxis, and Evolution: Meme Journeys through the First Movement of a Mozart Sonata / Steven Jan Chapter 13: An Ontomemetic Approach to Musical Intelligence / Marcelo Gimenes and Eduardo R. Miranda

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