# Contents

Self-organized 3D-Printing Patterns Simulated by Cellular Automata .............................................. 1
Yasusi Kanada

Cellular Automata Automatically Constructed from a Bioconvection Pattern ............................... 15
Akane Kawaharada, Erika Shoji, Hiraku Nishimori, Akinori Awazu, Shunsuke Izumi and Makoto Iima

A Comparison of Grouping Behaviors on Rule-Based and Learning-Based Multi-agent Systems .................. 27
Akihiro Ueyama, Teijiro Isokawa, Haruhiko Nishimura and Nobuyuki Matsui

Measurements of Negative Joint Probabilities in Optical Quantum System ............................... 41
Masataka Iinuma, Yutaro Suzuki and Holger F. Hofmann

Brownian Motion Applied to Macroscopic Group Robots Without Mutual Communication .................. 51
Teturo Itami

Comparison of Tactile Score with Some Prescriptions in Artworks: From the Point of Media Transformation .... 71
Fuminori Akiba

Drawing as the Relative Movement Between Subject and Medium: Using a Robot to Show the Subjectivity in Dynamic Flows of Consciousness ................................................................. 81
Miki Goan, Katsuyoshi Tsujita, Susumu Kihara and Kenjiro Okazaki
Recent Advances in Natural Computing
Selected Results from the IWNC 8 Symposium
Suzuki, Y.; Hagiya, M. (Eds.)
2016, VIII, 118 p. 69 illus., 42 illus. in color., Hardcover
ISBN: 978-4-431-55428-8