Contents

Part I Prologue

Engineering the Arts ................................................................. 3
Damith Herath and Christian Kroos

The Art in the Machine ............................................................... 19
Christian Kroos

Part II Then and Now

We Have Always Been Robots: The History of Robots and Art .......... 29
Elizabeth Stephens and Tara Heffernan

Robotics and Art, Computationalism and Embodiment ................... 47
Simon Penny

Robotics: Hephaestus Does It Again ............................................. 67
Jean-Paul Laumond

Part III Otherness

Embracing Interdependencies: Machines, Humans and Non-humans .... 89
Amy M. Youngs

Trans-Species Interfaces: A Manifesto for Symbiogenisis ............... 113
Ken Rinaldo

Cultivating the Uncanny: The Telegarden and Other Oddities .......... 149
Elizabeth Jochum and Ken Goldberg

The Potential of Otherness in Robotic Art ..................................... 177
Eleanor Sandry

Being One, Being Many .............................................................. 191
Christian Kroos and Damith Herath
Part IV  Explorations

Way of the Jitterbug ................................. 213
Norman T. White

Still and Useless: The Ultimate Automaton ........................................... 229
Nicolas Reeves and David St-Onge

Machines That Make Art ........................................ 255
Leonel Moura

Part V  Embodiment

The Multiple Bodies of a Machine Performer ................................. 273
Louis-Philippe Demers

Bio-engineered Brains and Robotic Bodies: From Embodiment to Self-portraiture ........................................ 307
Guy Ben-Ary and Gemma Ben-Ary

Android Robots as In-between Beings ........................................ 327
Kohei Ogawa and Hiroshi Ishiguro

Into the Soft Machine ........................................ 339
Chico MacMurtrie

Part VI  Interactions

I Want to Believe—Empathy and Catharsis in Robotic Art ......................... 365
Bill Vorn

Designing Robots Creatively ........................................ 379
Mari Velonaki and David Rye

Robot Partner—Are Friends Electric? ........................................ 403
Stefan Doepner and Urška Jurman

Part VII  Epilogue

Encounters, Anecdotes and Insights—Prosthetics, Robotics and Art ............ 427
Stelarc
Robots and Art
Exploring an Unlikely Symbiosis
Herath, D.; Kroos, C.; Stelarc (Eds.)
2016, XIX, 456 p. 218 illus., 200 illus. in color.,
Hardcover
ISBN: 978-981-10-0319-6