

Contents

Editorial, *Wojciech W. Gasparski* ix

Introduction, *Krzysztof Tchoń* xvii

Part One: Good Robots—Human Perspective

How Good Robots Will Enhance Human Life,
*Kevin Warwick, Huma Shah, Anton Vedder,
Elettra Stradella, and Pericle Salvini* 3

The Good Assistive Robot for Elder Care,
Cristina Urdiales, Roberta Annicchiarico, and Ulises Cortés 19

Unorthodox Thoughts about Good Robots Viewed
Pragmatically and Praxiologically, *Zbigniew J. Gackowski* 39

Part Two: Good Robots—A Technological Perspective

Towards Application-Oriented Navigation,
Adam Borkowski 57

Locomotion Mode Transition Control of a Multi-Locomotion
Robot, *Toshio Fukuda, Kosuke Sekiyama, Tadayoshi Aoyama,
Yasuhisa Hasegawa, and Qiang Huang* 83

Maintenance Robot: A History and Reflections of a
Japanese Engineering Scientist on Fukushima,
Hiroyuki Yoshikawa 103

Technological Singularity: A Path towards Artificial
Intellects and Unpredictable Futures, *Jack Brzezinski* 127

Part Three: Good Robots—Philosophical Perspective

| | |
|---|------------|
| Robot Desires, <i>Timo Airaksinen</i> | 147 |
| From Good Robots to Useful Intelligent Agents, <i>Grzegorz J. Nalepa</i> | 159 |
| On the Significance of “Responsibility” in Technological Thinking, <i>Ladislav Tondl</i> | 171 |
| Notes about the Authors | 183 |