Edited by Steven S. Gouveia

The Age of Artificial Intelligence

An Exploration

COGNITIVE SCIENCE AND PSYCHOLOGY

Summary

With worldwide spending estimates of over $97 billion by 2023, it is no surprise that Artificial Intelligence (A.I.) is one of the hottest topics at present in both the private and public spheres. Comprising of vital contributions from the most influential researchers in the field, including Daniel Dennett, Roman V. Yampolskiy, Frederic Gilbert, Stevan Harnad, David Pearce, Natasha Vita-More, Vernon Vinge and Ben Goertzel, 'The Age of Artificial Intelligence: An Exploration' discusses a variety of topics ranging from the various ethical issues associated with A.I. based technologies in terms of morality and law to subjects related to artificial consciousness, artistic creativity and intelligence.

The volume is organized as follows: Section I is dedicated to reflections on the Intelligence of A.I., with chapters by Soenke Ziesche and Roman V. Yampolskiy, Stevan Harnad, Daniel Dennett and David Pearce. Next, Section II discusses the relationship between consciousness, simulation and artificial intelligence, with chapters by Gabriel Axel Montes and Ben Goertzel, Cody Turner, Nicole Hall and Steven S. Gouveia. Section III, dedicated to aesthetical creativity and language in artificial intelligence, includes chapters by Caterina Moruzzi, René Mogensen, Mariana Chinellato Ferreira and Kulvinder Panesar. The subsequent Section IV is on the Ethics of the Bionic Brain with the participation of Peter A. DePergola II, Tomislav Miletić and Frederic Gilbert, Aníbal M. Astobiza, Txetxu Ausin, Ricardo M. Ferrer and Stephen Rainey and Natasha Vita-More. Finally, Section V follows on the Ethics of Artificial Intelligence with chapters by Federico Pistono and Roman V. Yamploskiy, Hasse Hämäläinen, Vernon Vinge and Eray Özkural. The Age of Artificial Intelligence is imminent, if not here already. We should ensure that we invest in the right people and the right ideas to create the best possible solutions to the problems of the present and prepare for those of the future. This edited volume will be of particular interest to researchers in the field of A.I. as well of those in Cognitive Science (Philosophy of the Mind, Neuroscience, and Linguistics), Aesthetics and Arts, Applied Ethics and Political Philosophy / Law. Students studying the aforementioned topics can also benefit from its contents.

About the editor

Steven S. Gouveia is completing his PhD at the University of Minho (Portugal), funded by the Science and Technology Foundation, under the supervision of philosopher Manuel Curado (University of Minho) and neuroscientist Georg Northoff (University of Ottawa). He is a visiting researcher at the Minds, Brain Imaging and Neuroethics Group at the Royal Institute of Mental Health, University of Ottawa, and a researcher of the Lisbon Mind and Reasoning Group (Nova University of Lisbon) and the Mind, Language and Action Group (University of Porto). Gouveia has published eight academic books, including 'Perception, Cognition and Aesthetics' (2018, Routledge), 'Automata's Inner Movie: Science and Philosophy of Mind' (2018, Vernon Press), and has a forthcoming publication with Bloomsbury titled 'The Science and Philosophy of Predictive Processing'. He hosts an international documentary on A.I, with the participation of international researchers such as Peter Signer and Paul Thagard, and has published several journal articles and book chapters on this subject as well as the mind and brain, ethics and aesthetics. For more information, visit: stevensgouveia.weebly.com

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