

Author Information

Colin Allen

Professor of Cognitive Science and History & Philosophy of Science in Indiana University's College of Arts and Sciences, a member of the core faculty in Indiana University's Center for the Integrative Study of Animal Behavior and author (with Wendell Wallach) of the book *Moral Machines. Teaching Robots Right from Wrong* (2009).

Jürgen Altmann

Researcher and lecturer at the Technische Universität Dortmund, one of the founding members of the International Committee for Robot Arms Control. Since 2003 deputy speaker of the Committee on Physics and Disarmament of Deutsche Physikalische Gesellschaft (DPG, the society of physicists in Germany). Currently directs the project on "Unmanned Armed Systems – Trends, Dangers and Preventive Arms Control" located at the Chair of Experimentelle Physik III at Technische Universität Dortmund.

Ronald C. Arkin

Regents' Professor and Associate Dean for Research at the School of Interactive Computing at the Georgia Institute of Technology and author of the book *Governing Lethal Behavior in Autonomous Robots* (2009).

Peter Asaro

Philosopher, member of the Faculty of the Department of Media Studies and Film at the New School University, New York and affiliated with the Center for Cultural Analysis at Rutgers University, New Jersey. He has written several articles on new technologies and their ethical challenges as well as on military robots and just war theory.

George Bekey

Professor Emeritus of Computer Science, Electrical Engineering and Biomedical Engineering at the University of Southern California and Adjunct Professor of Biomedical Engineering and Special Consultant to the Dean at the California Polytechnic State University. He is well known for his book *Autonomous Robots* (2005) and is Co-author of the study *Autonomous Military Robotics: Risk, Ethics and Design* (2008).

John S. Canning

Has had a leading role in the weaponization and safety of unmanned systems, having substantially participated in the OSD-lead effort to produce the *Unmanned Systems Safety Guide for DoD Acquisition* document. Previous assignments include Science

Advisor to ADM Robert Natter (ret), Commander, Fleet/Forces Command, Norfolk, VA; Science Consultant to VADM Diego Hernandez (ret), Commander, THIRD-FLEET, Pearl Harbor, HI; NSWCCD's Chief Engineer for CVNX; and Threat Cell Chair for RADM Tim Hood (ret), PEO (Theater Air Defense) for Tactical Ballistic Missile Defense. For this last item, Mr. Canning initiated a group effort that led to being awarded the CIA's Seal Medallion.

Gerhard Dabringer

Editor of this volume. Historian, Research associate at the Institute for Religion and Peace (Vienna) of the Catholic Military Chaplaincy of the Austrian Armed Forces. His main field of research is military ethics.

Roger F. Gay

Co-founder of Institute of Robotics in Scandinavia AB (iRobis) where he was a key contributor in the creation of its R&D program and currently VP for Partnerships at JPN Group in Sweden, which is involved in continuing development and marketing of self-learning software that supports creation of complete robotic systems that automatically develop and maintain their own intelligent controls, adapt, and solve problems. Educated in engineering, his 30 year career has spanned software engineering and product development, marketing, project management, policy analysis, journalism / commentary, and business.

Armin Krishnan

Visiting Assistant Professor for Security Studies at the University of Texas at El Paso. His book *Killer Robots* (2009) focuses on aspects of legality and ethicality of autonomous weapons.

Fiorella Operto

President at the Scuola di Robotica(Genova) and scholar professor of philosophy. She has specialised in ethical, legal, and societal issues in advanced robotics and has been working in collaboration with important scientific laboratories and research centres in Europe and in the United States. Recently she has co-operated with the Robotics Department of the National Research Council in Italy in promoting the knowledge and understanding of the new science of Robotics.

Noel Sharkey

British computer scientist, Professor of Artificial Intelligence and Robotics and Professor of Public Engagement at the University of Sheffield as well as Engineering and Physical Sciences Research Council Senior Media Fellow. He has held a number of research and teaching positions in the US (Yale, Stanford) and in the UK (Essex, Exeter and Sheffield). He is founding editor-in-chief of the Journal

Connection Science. Besides his academic contributions he is also widely known for setting up robot control and construction competitions for children and young adults and for his numerous appearances on the BBC as expert on *Robot Wars* and *Techno Games* and as co-host for *Bright Sparks*.

Peter W. Singer

Senior Fellow and Director of the 21st Century Defense Initiative at the Brookings Institution, who is considered one of the world's leading experts on changes in 21st century warfare. His new book "Wired for War" (2009) investigates the implications of robotics and other new technologies for war, politics, ethics, and law in the 21st century.

Robert Sparrow

Senior Lecturer at the School of Philosophy and Bioethics at Monash University, Australia. His main fields of research are political philosophy (including Just War theory), bioethics, and the ethics of science and technology. He is currently working on a research project on the impact developments in military technology have on the military's core ethical commitments, the character of individual warfighters, and on the application of Just War theory.

John P. Sullins

Assistant Professor of Philosophy at Sonoma State University. He has substantially contributed to the fields of philosophy of technology and cognitive science as well as to the fields of artificial intelligence, robotics and computer ethics. In addition John P. Sullins is a Military Master at Arms and directs the Sonoma State University Fencing Master's Certificate Program.

Gianmarco Veruggio

CNR-IEIT Senior Research Scientist and President at Scuola di Robotica(Genova). He is serving the IEEE Robotics and Automation Society as Corresponding Co-chair of the Technical Committee on Roboethics, as Co-Chair of the Human Rights and Ethics Committee, and as a Distinguished Lecturer. Among others, he was the General Chair of the *First International Symposium on Roboethics*, Sanremo, January 2004. In 2009 he was presented with the title of Commander of the Order to the Merit of the Italian Republic.