



SHAPING THE FUTURE WITH ARTIFICIAL INTELLIGENCE

The Evolution of
Artificial Intelligence (AI):
Impacts on
the Individual, Society
and the Military

Salve Regina University
Bazarsky Lecture Hall, O'Hare Academic Building
Ochre Point Avenue, Newport
November 1, 2018



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The Evolution of Artificial Intelligence (AI):
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5 - 5:30 p.m.
Meet the Authors over Coffee!

5:30 - 8 p.m.
Presentations

*There will be a Q/A session
following the presentations.*

The evolution of Artificial Intelligence (AI) systems has been driven by the commercial marketplace. Google (Deep Mind), Facebook, IBM (Watson) and Amazon, et al. Each organization has contributed to the application and integration of AI in system design and in the military battlespace.

This workshop will present topics related to the expansion of applications, approaches and advances being made in the field of Artificial Intelligence across academia, industry and government. We will present how future capabilities are being designed and developed and extend our review to the analysis of potential impacts on the individual, society and the military defense system.

PRESENTERS

Dr. James Giordano
Georgetown University
Washington, D.C.

Title: "At the Threshold: Possible Trajectories, Considerations and Constraints of AI Systems in Warfare, Intelligence and National Security Operations"

Dr. Yang Cai
Carnegie Mellon University
Pittsburgh, Penn.

Title: "Instinctive Computing – Exploring Primitive Intelligence"

Dr. Ryan D. McKendrick
Northrup Grumman
Mission Systems
McLean, Va.

Title: "Teaming, Symbiosis and a Taxonomy for Human-Machine Interaction"

BONUS

Dr. Yvonne Masakowski,
Naval War College, will conduct an interview with **Dr. Giordano** focused on "Weaponizing the Brain." Given recent events at the embassy in Cuba and the recent ricin attack, this session promises to provide valuable insights regarding neuroweapons for the future.

Why everyone should attend this workshop: AI is on the fast track of development!

This AI workshop will highlight advances in Artificial Intelligence that have implications for your personal life, for shaping society and for defending our nation's security, as well as maintaining global security. Advances in Artificial Intelligence are anticipated to increase exponentially and outpace our human capacity for keeping up with these technological advances.

This workshop will explore and identify the advantages, as well as the potential shortcomings, of relying on AI systems in the future. We will review advances in AI and discuss its trajectory as we look forward. We will examine the *evolutionary and revolutionary* influence and impact of Artificial Intelligence on life, society and warfare in the 21st century.

EVENT COORDINATORS

Dr. Sean O'Callaghan
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Dr. O'Callaghan is the graduate director of the MA/Ph.D. program in Humanities at Salve Regina University. He is associate professor of religious and theological studies, a fellow for the Pell Center for International Relations and Public Policy and a faculty fellow for student success.

Dr. Yvonne R. Masakowski
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Dr. Masakowski is an associate professor at the U.S. Naval War College, in the College of Leadership and Ethics. She teaches Leadership, Ethics, and serves as an academic mentor in the Ethics and Emerging Military Technology (EEMT) Graduate Certificate Program. She has also joined as adjunct faculty at Salve Regina University and will teach 'The History of Technology' in the spring semester. She serves as a graduate dissertation advisor at Salve Regina University. She is currently writing and editing a book on Artificial Intelligence entitled "The Evolution of 21st Century Warfare: AI and Future Global Security," to be released by Emerald Publishing in September 2019.

Michael Anton Budd

Michael Anton Budd is professor of history and liberal studies at Salve Regina University and a faculty fellow at the Pell Center for International Relations and Public Policy. He is the author of "The Sculpture Machine: Physical Culture & Body Politics in the Age of Empire." His other publications have appeared in wide range of journals and edited collections including *Les Cahiers Victoriens et Edouardiens*; *ICON: Journal of the International Committee of the History of Technology*; "Masculinity and the Other: Masculine Alterity in Historical Perspective;" and most recently, "Composing and Decomposing Bodies: Visualizing Death and Disease in an Era of Global War, Pestilence, and Famine, 1913–1923," *Lynteris, Christos, and Nicholas H. A. Evans*. "Histories of post-mortem contagion: infectious corpses and contested burials" (2017).

