LUNCH SERIES

ETHICS|AI|HEALTH

Daniel Tigard

University of San Diego

Embedded Ethics in Theory and Practice

16 November 2023

6.00-7.00 pm

Ariel Dora Stern

Harvard Business School

The Regulation of Medical AI: Policy Approaches, Data, and Innovation Incentives

7 December 2023

9.00-10.00 am

Thursday

via Zoom

Register here:

https://eveeno.com/348206912

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Join us each month for a fun and informative lunch on "Ethics, AI and Health"!

Each month we invite international experts from a variety of fields to share their cutting-edge research with us. Enjoy your lunch and a 30-minute presentation, followed by 30 minutes of stimulating discussion and Q&A.

This new lunch series is organized by the team of the Chair of Social Ethics, University Bonn in collaboration with the Transdisciplinary Research Area "Life & Health" (TRA 3), University of Bonn and the Collaborative Research Centre EmpkinS.

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About Daniel Tigard

Daniel Tigard is an Assistant Professor of Philosophy at the University of San Diego. His scholarship addresses ethical questions surrounding emerging technologies, such as robotics and artificial intelligence. Before coming to USD, Dr. Tigard held a position as Senior Research Associate at the Technical University of Munich. As part of an interdisciplinary project on “Responsible Robotics”, Dr. Tigard worked to “embed” ethics into the development of sophisticated technologies, namely a humanoid robotic assistant intended for elderly persons and telemedical systems. Dr. Tigard is passionate about helping students and young professionals to think carefully about how we interact with technology and how technology is changing our interactions with one another.

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Daniel Tigard
University of San Diego

Embedded Ethics in Theory and Practice

Emerging technologies, such as artificial intelligence and robotics, are impacting us in socially, morally, and politically significant ways. With this growing recognition in academic and public arenas, we see the increasing need to develop novel modes of regulation. Accordingly, “embedded ethics” has become a trending framework for research and practical interdisciplinary collaboration. Embedded ethics is a process of merging ethics and social sciences into technology development teams, whether in educational or commercial settings, in an effort to identify and address ethical features of emerging technologies throughout their development. In this talk, I will explain some of the theoretical and practical underpinnings of embedded ethics. I suggest that embedded ethics can be seen as a preparatory mode of regulation and offer some recommendations for how the framework can be deployed.

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About
Ariel Dora Stern

Dr. Ariel Dora Stern is the Poronui Associate Professor of Business Administration in the Technology and Operations Management Unit at Harvard Business School and a Faculty Member of the Harvard-MIT Center for Regulatory Science. Ariel's research focuses on technology management and innovation in health care. Her projects consider the regulation, strategy, and economics of health care, with a focus on novel health care technologies and delivery modalities. She has published widely in top journals in medicine, economics, and health care policy and her research has been cited by Bloomberg, The New York Times, and National Public Radio. In 2024, she is slated to assume a chair at the joint Digital Engineering Faculty of the University of Potsdam and the Hasso Plattner Institute, where she has been named an Alexander von Humboldt Professor.

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Ariel Dora Stern
Harvard Business School

The Regulation of Medical AI: Policy Approaches, Data, and Innovation Incentives

For those who follow health and technology news, it is difficult to go more than a few days without reading about a compelling new application of Artificial Intelligence (AI) to health care. AI has myriad applications in medicine and its adjacent industries, with AI-driven tools already in use in basic science, translational medicine, and numerous corners of health care delivery, including administrative work, diagnosis, and treatment. In diagnosis and treatment, a large and growing number of AI tools meet the statutory definition of a medical device or that of an in-vitro diagnostic. Those that do are subject to regulation by local authorities, resulting in both practical and strategic implications for manufacturers, along with a more complex set of innovation incentives. This talk will begin with brief background on medical device regulation—especially as it relates to software products—and present data on the emergence of AI among regulated products. The presentation will also explore characteristics of AI-supported/driven medical devices ("AI devices") in the United States, including data on their origins (by firm type and country), their safety profiles (as measured by associated adverse events and recalls), and a discussion of the implications of regulation for innovation incentives in medical AI.

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