



Navigating the White-Water World with Digital Humanism

Staff - Faculty of Informatics

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USI Campus Est, room D114, Sector D

Speaker:

Gordana Dodig-Crnković, Chalmers University of Technology & Mälardalen University, Sweden

Abstract:

This seminar will begin by exploring the profound impact of emergent AI technologies on modeling, ethics, and sustainability, transitioning from narrow technical themes to broader issues of techno-social systems. It will highlight the potential of emerging technologies of AI, in combination with the "Internet of everything" to reshape not only products and services but also our thinking processes and conceptual frameworks. The earlier mechanical "automation" process has been transformed into "cognitization" and "intelligentization." The ongoing "intelligence wave" has engulfed the world, evoking both awe and fear. As AI technology becomes more and more powerful, the age-old adage applies: "With great power comes great responsibility." In this talk, the perspective of Digital Humanism will be presented as a way of navigating the contemporary white-water world, driven by the prospect of a more humane and inclusive future. By integrating ethical considerations, sustainable development, and responsible engineering with social aspects it fosters a shared mindset for guiding technology development and policies. In conclusion, some of the activities of the Digital Humanism movement will be outlined.

Biography:

Gordana Dodig-Crnković is a Professor of Computer Science at Mälardalen University, and a Professor of Interaction Design at Chalmers University of Technology, Sweden. She holds PhD degrees in Physics and Computer Science. Her research focuses on the relationships between computation, information, and cognition, including ethical and value aspects. She has been teaching courses in Research Methodology and Theory of Science, Professional Ethics, as well as Formal Languages, Automata and Theory of Computation. She published a book Information and Computation Nets in 2009 and several edited volumes, including "Information, Computation, Cognition" with Susan Stuart in 2007; three volumes with Mark Burgin: "Information and Computation" in 2011, "Philosophy and Methodology of Information" in 2019, and "Theoretical Information Studies" in 2020. With Raffaella Giovagnoli she published volumes "Computing Nature" in 2013 and "Representation and Reality" in 2017. Dodig-Crnković is the past President of the International Society for the Study of Information, a member of the editorial board of the World Scientific Series in Information Studies, and Springer SAPERE series, and a member of the editorial board of several journals. She is a member of the AI Ethics Committee at the Chalmers University of Technology and an external member of The Karel Capek Center for Values in Science and Technology, (<https://www.cevast.org/>), a research interdisciplinary center established by the Czech Academy of Science, Faculty of Natural Sciences and the Charles University, Prague. Personal web page (<http://gordana.se>)

Host: Prof. Monica Landoni

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Attachments

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