

IEEE P7000 - The first global standard process for addressing ethical concerns in system design

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This keynote will give an introduction to IEEE P7000, the first standard IEEE is ever going to publish on ethical issues in system design. As co-chair of IEEE P7000 I am going to inform the audience about what this standard will be all about. In a nutshell: engineers, technologists and other project stakeholders need a methodology for identifying, analyzing and reconciling ethical concerns of end users at the beginning of systems and software life cycles. The purpose of IEEE P7000 is to enable the pragmatic application of this type of Value-Based System Design methodology which demonstrates that conceptual analysis of values and an extensive feasibility analysis can help to refine ethical system requirements in systems and software life cycles. It will provide engineers and technologists with an implementable process aligning innovation management processes, IS system design approaches and software engineering methods to minimize ethical risk for their organizations, stakeholders and end users. In the course of the keynote I will also show how relevant values and system design ideas can be gained from using utilitarianism, deontological ethics and virtue ethics.

Bio

Sarah chairs the Institute for Management Information Systems at Vienna University of Economics and Business (WU Vienna). She is author of the book "Ethical IT Innovation: A Value-based System Design Approach" and co-chair of IEEE's first ever standard on ethics in IT design. In addition to this work, she has published almost a hundred scientific articles on the social and ethical implications of computer systems and given many presentations

and talks about her work around the world. Her main research interest is electronic privacy, disclosure behavior and ethical system design. Sarah has co-authored US/EU privacy regulation for RFID technology and regularly works as an expert and advisor to companies and governmental institutions, including the EU Commission and the OECD. She also maintains a blog on "The Ethical Machine" at Austria's leading daily newspaper Standard.at and is on the board of the Austrian art and science think-tank GlobArt. Before being tenured in Vienna in 2009, Sarah was Assistant Professor at the Institute of Information Systems at Humboldt University Berlin (Germany), where she headed the Berlin Research Centre on Internet Economics (2003-2009), was Adjunct Visiting Research Professor with the Heinz College of Public Policy and Management at Carnegie Mellon University (Pittsburgh, USA) (2006-2009), founded and shut down the company Skillmap (visualizing social networks) (2008-2011) and worked as a management consultant and marketing manager with A. T. Kearney and Openwave Systems.