

P7000

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Type of Project: New IEEE Standard

PAR Request Date: 18-May-2016

PAR Approval Date: 30-Jun-2016

PAR Expiration Date: 31-Dec-2020

Status: PAR for a New IEEE Standard

1.1 Project Number: P7000

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Model Process for Addressing Ethical Concerns During System Design

3.1 Working Group: Engineering methodologies for ethical life-cycle concerns working group (C/S2ESC/EMELC-WG)

Contact Information for Working Group Chair

Name: John Havens

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Contact Information for Working Group Vice-Chair

None

3.2 Sponsoring Society and Committee: IEEE Computer Society/Software & Systems Engineering Standards Committee (C/S2ESC)

Contact Information for Sponsor Chair

Name: Paul Croll

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Contact Information for Standards Representative

None

4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 07/2018

4.3 Projected Completion Date for Submittal to RevCom

Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 02/2019

5.1 Approximate number of people expected to be actively involved in the development of this project: 40

5.2 Scope: The standard establishes a process model by which engineers and technologists can address ethical consideration throughout the various stages of system initiation, analysis and design. Expected process requirements include management and engineering view of new IT product development, computer ethics and IT system design, value-sensitive design, and, stakeholder involvement in ethical IT system design.

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: 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 this standard 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.

This standard 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.

5.5 Need for the Project: Engineers and their managers and other stakeholders benefit from a well-defined process for considering ethical issues early in the system life cycle. Consumers aren't trained to think of the ethical considerations regarding the products and services they use - it is only by rigorously examining ethical concerns that manufacturers, engineers and technologists can best ensure products and services are as safe and relevant for end users as possible.

Finally, it should be noted there is no IEEE standard offering a process model for engineers to consider ethical factors affecting their projects.

5.6 Stakeholders for the Standard: Stakeholders include innovation managers, engineers and technologists involved in product or systems life cycles, development, operations, maintenance, and disposal; end users; suppliers; acquirers; regulatory bodies; the public at large.

Intellectual Property

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No

6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

7.1 Are there other standards or projects with a similar scope?: No

7.2 Joint Development

Is it the intent to develop this document jointly with another organization?: No

8.1 Additional Explanatory Notes: 7.1 There are no similar IEEE standards, but there is related work:

The IEEE Code of Ethics. This standard will not contradict this code of ethics and will work to honor specifics of the code in its implementation.

The IEEE-CS/ACM Software Engineering Code of Ethics. This standard will not contradict this code of ethics and will work to honor specifics of the code in its implementation.