

P7008

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Type of Project: New IEEE Standard

PAR Request Date: 24-Apr-2017

PAR Approval Date: 15-Jun-2017

PAR Expiration Date: 31-Dec-2021

Status: PAR for a New IEEE Standard

1.1 Project Number: P7008

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Ethically Driven Nudging for Robotic, Intelligent and Autonomous Systems

3.1 Working Group: Working Group for Ethically Driven Nudging for Robotic, Intelligent and Autonomous Systems (RAS/SC/Ethical Nudging)

Contact Information for Working Group Chair

Name: Laurence Devillers

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Contact Information for Working Group Vice-Chair

None

3.2 Sponsoring Society and Committee: IEEE Robotics and Automation Society/Standing Committee for Standards (RAS/SC)

Contact Information for Sponsor Chair

Name: ERWIN PRASSLER

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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: 12/2018

4.3 Projected Completion Date for Submittal to RevCom

Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 08/2019

5.1 Approximate number of people expected to be actively involved in the development of this project: 30

5.2 Scope: "Nudges" as exhibited by robotic, intelligent or autonomous systems are defined as overt or hidden suggestions or manipulations designed to influence the behavior or emotions of a user. This standard establishes a delineation of typical nudges (currently in use or that could be created). It contains concepts, functions and benefits necessary to establish and ensure ethically driven methodologies for the design of the robotic, intelligent and autonomous systems that incorporate them.

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

5.4 Purpose: The Standard for Ethically Driven Nudging for Robotic, Intelligent and Autonomous Systems establishes a set of definition of functions and their relationships with benefits depending on cultural aspects of users (well-being, health, ...) that enables the development of Robotics, Intelligent and Autonomous Systems in accordance with worldwide Ethics and Moral theories, with a particular emphasis on aligning the ethics and engineering communities to understand how to pragmatically design and implement these systems in unison. This standard along with definitions allows for precise communication among global experts of different domains that includes Robotics, Artificial Intelligence, Autonomous Systems, and Ethics.

5.5 Need for the Project: Ethics is the new frontier for the development of products, systems and services in the coming decades. Considering Ethics during the design of Robotic, Intelligent and Autonomous Systems is an urgent task. Day by day, new machines and systems (in the broad sense) are being developed to help and assist humans in a myriad of activities. To guarantee their acceptability and their alignment with what their stakeholders expect, in terms of general benefits and the increase of human well-being, it is essential to consider applied ethics in the broadest sense by cross-pollinating expertise from philosophical and engineering backgrounds for this work.

5.6 Stakeholders for the Standard: Manufacturers, service and solution providers, equipment suppliers in the robotics and users.

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: "Nudges" as exhibited by robotic, intelligent or autonomous systems are defined as overt or hidden suggestions or manipulations designed to influence the behavior or emotions of a user.