

P528

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Type of Project: Revision to IEEE Standard 528-2001

PAR Request Date: 08-Feb-2018

PAR Approval Date: 14-May-2018

PAR Expiration Date: 31-Dec-2022

Status: PAR for a Revision to an existing IEEE Standard

Root Project: 528-2001

1.1 Project Number: P528

1.2 Type of Document: Standard

1.3 Life Cycle: Full Use

2.1 Title: Standard for Inertial Sensor Terminology

Changes in title: ~~IEEE~~ Standard for Inertial Sensor Terminology

3.1 Working Group: Sensors Working Group (AES/GA/SENSR_WG)

Contact Information for Working Group Chair

Name: Austin Prach

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Contact Information for Working Group Vice-Chair

None

3.2 Sponsoring Society and Committee: IEEE Aerospace and Electronic Systems Society/Gyro Accelerometer Panel (AES/GA)

Contact Information for Sponsor Chair

Name: Randall Curey

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4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 11/2019

4.3 Projected Completion Date for Submittal to RevCom

Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 05/2020

5.1 Approximate number of people expected to be actively involved in the development of this project: 10

5.2 Scope: This standard provides a source of definitions of terminology used in the development, manufacture, and test of inertial instruments used for navigation, guidance, orientation, stabilization, and related applications. This is a companion document to IEEE Std 1559(TM)

Changes in scope: ~~To~~ This review standard all provides of a the source of definitions ~~included of terminology used in the standard development, manufacture, and test~~ revise of the inertial as instruments required-used New for terminology navigation, will guidance, be orientation, added stabilization, to and bring related the applications. document This up is to a date companion with document current to technology IEEE- Std 1559(TM)

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

5.4 Purpose: There is no consistent definition of terms that have arisen in the evolution of inertial instruments. This standard is intended to serve as a basic reference for producers and users of such systems, for preparing industry standards, and for the interpretation of published technical reports.

Changes in purpose: This There revision is part no of consistent the definition of year terms review that cycle have for arisen IEEE in Standards. Since the last evolution publication of this inertial standard, instruments. three This major standard revisions is of, intended or to new, serve inertial as sensor a standards basic have reference been for published producers by the IEEE AESS Gyro and Accelerometer users panel. of In such addition systems, significant for advances preparing have industry been standards, made and in related technology for which the new interpretation standards of are published being technical developed reports.

5.5 Need for the Project: There is a need to define inertial sensor terminology so that users, producers and those with general interest can use a common language when preparing standards and for interpreting published technical reports.

5.6 Stakeholders for the Standard: Users, producers, and those with general interest in inertial navigation sensors.

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: The standard is up for the 10 year review cycle.

5.2 IEEE 1559, IEEE Standard for Inertial Systems Terminology