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This publication will review the state-of-the-art and trends in the emerging field of biomedical engineering. This includes scholarly works, ranging from historic and modern development in biomedical engineering to the life sciences and medicine enabled by technologies covered by the various IEEE societies. See page 22.

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This publication will provide archival research papers and critical survey papers on technology advances in online learning systems; intelligent tutors; educational software applications and games; simulation systems for education and training; collaborative learning tools, devices and interfaces for learning; interactive techniques for learning; tools for formative and summative assessment; ontologies for learning systems; standards and web services that support learning; authoring tools for learning materials; computer support for peer tutoring and learning via discovery or project work or field or lab work; and creation and management of learning objects. See pages 12, 16, and 20.

# IEEE INTELLIGENT TRANSPORTATION SYSTEMS MAGAZINE

This publication will contain peer-reviewed articles that provide innovative research ideas and application results, report significant application case studies, and raise awareness of pressing research and application challenges in all areas of intelligent transportation systems. High quality tutorials, surveys, successful implementations, technology reviews, lessons learned, policy and societal impacts, and intelligent transportation systems educational issues will also be published. See page 26.

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# IEEE Intelligent Transportation Systems Society (ITSS)

The Society covers the theoretical, experimental and operational aspects of electrical and electronics engineering and information technologies as applied to Intelligent Transportation Systems (ITS). Intelligent Transportation Systems are defined as those systems utilizing synergistic technologies and systems engineering concepts to develop and improve transportation systems of all kinds.

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Society Newsletter (electronic) Available at www.ewh.ieee.org/tc/its

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# **IEEE Lasers and Electro-Optics Society (LEO)**

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# **IEEE Magnetics Society (MAG)**

The Society encompasses all matters involved in the fundamental development, design, and application of magnetic devices including magnetic materials and phenomena.

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Society Newsletter (electronic) Available at www.ieeemagnetics.org

IEEE Trans. on Magnetics CD-ROM

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# IEEE Microwave Theory and Techniques Society (MTT)

Society microwave theory, techniques covers applications of RF, microwave, guided wave and wireless technologies, as they relate to components, devices, circuits, transmission lines, and systems involving the generation, modulation, demodulation, control, transmission, detection, and effects of electromagnetic signals. This includes topics such as active devices and circuits and passive components including radio frequency and microwave/millimeter-wave integrated circuits (RFICs and MMICs), microwave photonics, microelectromechanical devices, transmit/receive modules and system on package and use of such technologies for applications such as wireless, sensing, high speed digital, medical, and integrated smart and phased array antenna systems. Also covered are measurement techniques and complementary computer aided design, modeling and simulation and much more. It shall include scientific, technical, and industrial activities.

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# **IEEE Nuclear and Plasma Sciences Society (NPS)**

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MEMBERSHIP INCLUDES: (PRODUCT # MEMNPS005) \$30

**Society Newsletter** (print & electronic) Electronic at www.ewh.ieee.org/soc/nps

**IEEE Systems Journal** 

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Microwave Theory and Techniques, IEEE Trans. on

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## IEEE Oceanic Engineering Society (OE)

The Society includes all aspects of science, engineering, and technology that address research, development, and operations pertaining to all bodies of water. This includes the creation of new capabilities and technologies from concept design through prototypes, testing, and operational systems to sense, explore, understand, develop, use, and responsibly manage natural resources.

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Oceanic Engineering, IEEE Journal of

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## **IEEE Power Electronics Society (PEL)**

The Society's mission is for the development and practical application of power electronics technology, including the use of electronic components, the application of circuit theory and design techniques, and the use of analytical tools.

MEMBERSHIP INCLUDES: (PRODUCT # MEMPEL035)

\$20

Society Newsletter (print)

#### IEEE Power Electronics Society Digital Library

IEEE Transactions on Power Electronics and Proceedings of the IEEE Power Electronics Specialists Conferences

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#### **Power Electronics, IEEE Trans. on**

Online access included with membership

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#### **Combined Power Electronics and Systems Journals**

Includes the Trans. on Energy Conversion, Trans. on Power Delivery, Trans. on Power Systems, Trans. on Industrial Electronics, Trans. on Industry Applications, and Trans. on Power Electronics

Electronic Product # ONL442

**IEEE Systems Journal** 

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# **IEEE Power Engineering Society (PE)**

The scope of the Society embraces planning, research, development, design, application, construction, installation, and operation of facilities systems for generation, transmission, and distribution of electric energy, and other activities.

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## **IEEE Product Safety Engineering Society (PSE)**

This Society includes the theory, design, development and implementation of product safety engineering related to the process required for ensuring that electromechanical products are safe for use within a widerange of environments. Dissemination of technical information to enhance personal product safety engineering skills is a primary focus of the Society.

MEMBERSHIP INCLUDES: (PRODUCT # MEMPSE043)

\$35

Society Newsletter (electronic)

Available at www.ewh.ieee.org/soc/pses

**IEEE Online Community for Society Members** 

## **IEEE Professional Communication Society (PC)**

The Society encompasses all aspects of communicating information relating to engineering and professional practices. The Society supports continuing education related to effective technical communication, researching and developing new communication techniques, and defining professional communication standards. Society interests include electronic information; technical documentation; user interfaces; usability studies; face-to-face, print, and electronic presentations; and specification and implementation of electronic publication, content management, and collaboration technologies.

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\$30

**Society Newsletter** (electronic) Available at www.ieeepcs.org

**Professional Communication, IEEE Trans. on** 

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**New!** IEEE Technology Management Package

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# **IEEE Reliability Society (RL)**

The Society encompasses all aspects involved in attaining reliability, maintaining it through the life of the system or device, and measuring it. Availability, maintainability, product liability, quality and system safety are covered.

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Society Newsletter (electronic)

Available at www.ieee.org/portal/sité/relsoc/menuitem

#### **IEEE Reliability Society Conference Digital Library**

Access to proceedings of the Annual Reliability and Maintainability Symposium (RAMS) (1988-present), IEEE Reliability Physics Symposium (IRPS) (1988-present), and International Symposium on Physical & Failure Analysis of Integrated Circuits (1997-present)

Online access to IEEE Trans. on Reliability

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