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# What's New for 2008

## NEW COUNCIL

## IEEE TECHNOLOGY MANAGEMENT COUNCIL

Formed from the conversion of the IEEE Engineering Management Society to a Council See page 39.

## **NEW PUBLICATIONS**

### IEEE REVIEWS IN BIOMEDICAL ENGINEERING

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 21.

### **IEEE TRANSACTIONS ON HAPTICS**

This publication covers the science, technology, and applications associated with information acquisition and object manipulation through touch. It explores all aspects of manual exploration and manipulation by humans, machines, and interactions between the two, performed in real, virtual, teleoperated, or networked environments. See pages 15, 17, and 32.

#### IEEE JOURNAL OF SELECTED TOPICS IN APPLIED EARTH OBSERVATIONS AND REMOTE SENSING

These papers will address current issues and techniques in applied remote and *in situ* sensing, their integration, and applied modeling and information creation for understanding the Earth. Applications are for the Earth, oceans, atmosphere and space. Topics can include observations, derived information such as forecast data, simulated information, data assimilation and Earth information techniques to address science and engineering issues of the Earth system. See pages 9,10,11,12,13,16,18,22,23,24,25,26,27,28,29,30,33,34,35,and 37.

### **IEEE TRANSACTIONS ON SERVICES COMPUTING**

This publication will cover all computing and software aspects of the science and technology of services innovation research and development. It will emphasize the algorithmic, mathematical, statistical and computational methods that are central in services computing; the emerging field of Service Oriented Architecture, Web Services, Business Process Integration, Solution Performance Management, Services Operations and Management. See page 15.

### **IEEE TRANSACTIONS ON LEARNING TECHNOLOGIES**

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 tools for learning materials; computer 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 11, 15 and 18.

### 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 25.

## **NEW DIGITAL LIBRARIES**

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Provides access at www.ieee.org/ieeexplore to the IEEE International Symposium on Antennas and Propagation and other conference publications sponsored or co-sponsored by the IEEE Antennas and Propagation Society. See page 9.

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Thanks in large part to the generous contributions made by IEEE members in their last IEEE dues renewal, during 2006 the IEEE Foundation:

- > Awarded US\$300,000 in project grants to new and innovative projects that helped countless individuals around the world;
- Invested US\$280,000 in programs of the IEEE History Center providing historians, researchers, and the general public access to the history of IEEE associated technologies;
- Expended over US\$100,000 on IEEE programs designed to aid students, at all levels, pursuing a technologically-oriented education;
- > Paid out over US\$750,000 in cash honorariums and prize items associated with presentation of a variety of peer recognition awards celebrating technological and scientific accomplishments from which all of society benefits.

This is just the beginning. There is much more that can and should be done. On behalf of the people who benefit from the IEEE Foundation's work to support science and technology, please consider making a gift to the IEEE Foundation General Fund through your dues renewal. The IEEE Foundation will not have the same success in bringing people together and improving lives without your support.

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IEEE Systems Journal

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The Society is concerned with research, development, design and manufacture related to materials, processing, technology, and applications of such devices, and scientific, technical, educational and other activities that contribute to the advancement of this field.

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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 utilizing synergistic technologies and systems engineering concepts to develop and improve transportation systems of all kinds.

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## IEEE Microwave Theory and Techniques Society (MTT)

The Society covers microwave theory, techniques and 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.

MEMBERSHIP INCLUDES: (PRODUCT # MEMMTT017) IEEE Microwave Magazine Freq 6x/yr (print & electronic) (Air freight add: \$77) Online access to IEEE/OSA Journal of Lightwave Technology

AVAILABLE TO MTT MEMBERS: Microwave Theory and Techniques, IEEE Trans. on Freq 15x/yr Product # PER118-ELE Product # PER118-EPC (Air freight add: \$152)	\$11 \$22
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<b>IEEE MTT CD-ROM 2007 Collection</b> 2007 collection includes IEEE Trans. on Microwave Theory and Techniques; IEEE Microwave and Wireless Components Letters; Digests of the International Microwave Symposium and RFIC Symposium. Includes MTT CD-ROM Index. Freq 1x/yr Product # PER180-CDR	\$13
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IEEE Systems Journal	

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## IEEE Nuclear and Plasma Sciences Society (NPS)

The Society encompasses all phases of nuclear and plasma sciences, engineering and applications, including instrumentation, detection and measurement, particle accelerators, pulsed power, reactor systems, effects of radiation on materials and components, and medical imaging technology.

MEMBERSHIP INCLUDES: (PRODUCT # MEMNPS005) Society Newsletter (print & electronic) Electronic at www.ewh.ieee.org/soc/nps

Online access to IEEE Trans. on Nuclear Science and IEEE Trans. on Plasma Science

#### AVAILABLE TO NPS MEMBERS: Special Promotion for NPS Members, Free for 2008 New! IEEE Nuclear and Plasma Society Member Digital Library

Access to the IEEE Nuclear Science Symposium and other conference publications sponsored or co-sponsored by the IEEE Nuclear and Plasma Sciences Society.

Electronic Product # ONL466

## Nuclear Science, IEEE Trans. on

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<b>IEEE Oceanic Engineering Society (OE)</b> The Society includes all aspects of science, engineering, and to ogy that address research, development, and operations pertai all bodies of water. This includes the creation of new capabilit technologies from concept design through prototypes, testir operational systems to sense, explore, understand, develop, u	ning to ies and ng, and
responsibly manage natural resources. MEMBERSHIP INCLUDES: (PRODUCT # MEMOE022) Society Newsletter (print)	\$10
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#### **IEEE Systems Journal**

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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) Society Newsletter (print) \$10

\$15

#### **IEEE Power Electronics Society Digital Library**

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

#### AVAILABLE TO PEL MEMBERS:

#### Power Electronics, IEEE Trans. on

Online access included with membership Freq 6x/yr Product # PER450-PRT (Air freight add: \$94)

#### **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.

\$8

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	Trans. on Power Systems and Conference Proceedings Product # ONI 750	\$30
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	nversion, IEEE Trans. on Product # PER142-PRT(Air freight add: \$79)	\$13
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	Product # PER144-PRT(Air freight add: \$112) Product # PER144-ELE	\$20 \$13
	Product # PER144-EPC	\$23
	perconductivity, IEEE Trans. on	
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	Power Electronics and Systems Journals Trans. on Energy Conversion, Trans. on Power Delivery.	
	wer Systems, Trans. on Industrial Electronics, Trans. on	
	lications, and Trans. on Power Electronics	<b>*</b> 00
	Product # ONL442	\$30
	mputing, IEEE Trans. on Product # PER190-EPC	\$22
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	nsing, IEEE Journal of	
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1	Product # PER215-PRT (Air freight add: \$74)	\$15
IEEE Senso	ors Journal	

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

This new 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 wide-range of environments. Dissemination of technical information to enhance personal product safety engineering skills is a primary focus of the Society.

MEMBERSHIP INCLUDES: (PRODUCT # MEMPSE043) 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.

**MEMBERSHIP INCLUDES: (PRODUCT # MEMPC026)** 

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

**Professional Communication, IEEE Trans. on** Freq 4x/yr (print & electronic) (Air freight add: \$70)

#### AVAILABLE TO PC MEMBERS:

#### 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.

MEMBERSHIP INCLUDES: (PRODUCT # MEMRL007) Society Newsletter (electronic) Available at www.ieee.org/portal/site/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**

#### AVAILABLE TO RL MEMBERS:

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Nanotechnology, IEEE Trans. on For subscription information to this Council publication see page 38.	
IEEE Systems Journal For subscription information to this Council publication see page 39.	
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## **IEEE Robotics and Automation Society (RA)**

The Society is interested in both applied and theoretical issues in robotics and automation. Robotics is here defined to include intelligent machines and systems; whereas automation includes the use of automated methods in various applications to improve performance and productivity.

	IEEE Robo	SHIP INCLUDES: (PRODUCT # MEMRA024) tics and Automation Magazine (print & electronic) (Air freight add: \$70)	\$11
	AVAILABI	LE TO RA MEMBERS:	
	Robotics,	IEEE Trans. on	
	Freq 6x/yr	Product # PER146-PRT (Air freight add: \$102)	\$18
		Product # PER146-ELE	\$13
		Product # PER146-EPC	\$22
		on Science and Engineering, IEEE Trans. on	<b>610</b>
	Freq 4x/yr	Product # PER199-PRT (Air freight add: \$53) Product # PER199-ELE	\$18 \$13
		Product # PER199-EPC	\$22
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		ns. on Robotics and Trans. on Automation Science and Engineering	
		Product # PER441-PRT (Air freight add: \$155)	\$27
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	Newdlaw	Product # PER441-EPC	\$33
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	1 . 2	Informatics. IEEE Trans. on	φ14
		Product # PER203-PRT (Air freight add: \$51)	\$8
	1	Product # PER203-ELE	\$8
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	Mechatro	nics, IEEE/ASME Trans. on	
	Freq 6x/yr	Product # PER168-PRT (Air freight add: \$80)	\$16
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	Freq 6x/yr	Product # PER470-EPC (Air freight add: \$83)	\$18
	Mobile Co	omputing, IEEE Trans. on	
	Freq 12x/yr	Product # PER190-EPC	\$22
	<b>NanoBios</b>	cience, IEEE Trans. on	
	Freq 4x/yr	Product # PER191-PRT (Air freight add: \$51)	\$23
		Product # PER191-ELE	\$15
		Product # PER191-EPC	\$28
2		Electronic products unless specified available at www.ieee.org/iee	explore

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## **IEEE Signal Processing Society (SP)**

The Society addresses the theory and application of filtering, coding, transmitting, estimating, detecting, analyzing, recognizing, synthesizing, recording, and reproducing signals by digital or analog devices or techniques. The term "signal" includes audio, video, speech, image, communication, geophysical, sonar, radar, medical, musical, and other signals.

MEMBERSHIP INCLUDES: (PRODUCT # MEMSP001) Inside Signal Processing e-Newsletter (electronic) Available at http://enews.ieee-spm.org	\$14
IEEE Signal Processing Magazine Freq 6x/yr (print & electronic) (Air freight add: \$70)	
IEEE Signal Processing Letters Freq 12x/yr (electronic)	
AVAILABLE TO SP MEMBERS:	
Signal Processing, IEEE Trans. on Freq 12x/yr Product # PER100-ELE Product # PER100-EPC (Air freight add: \$134)	\$13 \$25
Audio, Speech, and Language Processing, IEEE Trans. on	¢0
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Image Processing, IEEE Trans. on	
Freq 12x/yr Product # PER155-ELE Product # PER155-EPC (Air freight add: \$113)	\$14 \$28
Information Forensics and Security, IEEE Trans. on	
Freq 4x/yr Product # PER204-ELE Product # PER204-EPC (Air freight add: \$78)	\$9 \$18
Journal of Selected Topics in Signal Processing	
Freq 6x/yr Product # PER211-ELE Product # PER211-EPC (Air freight add: \$88)	\$13 \$25
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Wireless Communications, IEEE Trans. on Freq 12x/yr Product # PER193-ELE Product # PER193-EPC (Air freight add: \$68)	\$19 \$40

## IEEE Society on Social Implications of Technology (SIT)

The Society brings together practicing technologists and researchers to consider the social implications of technology, the unintended consequences of innovation, useful public roles for technologists, and the ethical issues associated with professional practice.

MEMBERSHIP INCLUDES: (PRODUCT # MEMSIT030) IEEE Technology and Society Magazine Freq 4x/yr (print & electronic) (Air freight add: \$70)	\$13
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## IEEE Solid-State Circuits Society (SSC)

The Society's interests cover the design, implementation and application of solid-state integrated circuits for all applications, including computers, communications, signal processing and optoelectronics.

MEMBERSHIP INCLUDES: (PRODUCT # MEMSSC037) Society Newsletter (print & electronic) Electronic at www.ieee.org/portal/site/sscs

**Online access to IEEE Journal of Solid-State Circuits** 

Solid State Circuits Conference Digital Library Access to IEEE SSCS Conference Digests for ISSCC, CICC, ESSCIRC, and Symp. VLSI Circuits

IEEE Nanotechnology Magazine

Freq 4x/yr (print) (Air freight add: \$44)

#### AVAILABLE TO SSC MEMBERS:

Solid-State Circuits, IEEE Journal of

Online access included with membership Freq 12x/yr Product # PER410-PRT (Air freight add: \$121)

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2 DVD's which include all articles from JSSC from 1966-2007, ISSCC from 1955-2007, CICC from 1988-2007, Symposium on VLSI from 1988-2007, ESSCIRC from 1997-2007, A-SSCC from 2005. Freq 1x/yr PUB ID PER281-DVD

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	ected Topics in Applied Earth Observations and	
	Sensing, IEEE Journal of	
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	ductor Manufacturing, IEEE Trans. on PUB ID PER145-EPC (Air freight add: \$75)	\$
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	E Technology Management Package iption information to this Council package see page 39.	
	Je Scale Integration Systems, IEEE Trans. on Product # PER162-EPC (Air freight add: \$79)	\$1

## IEEE Systems, Man, and Cybernetics Society (SMC)

The Society is involved in the integration of the theories of communication, control, cybernetics, systems engineering and human-factors engineering, as well as the application of these to a variety of systems including human-machine, biological, technological and societal.

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Access to the IEEE International Conference on Systems, Man, and Cybernetics and other conference publications sponsored or co-sponsored by the IEEE Systems, Man, and Cybernetics Society Electronic Product # ONL467	
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	Product # PER191-ELE	\$15
	Product # PER191-EPC	\$28
<b>IEEE Nan</b>	otechnology Magazine	
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Nanotech	nology, IEEE Trans. on	
For subscr	iption information to this Council publication see page 38.	
Pattern A	nalysis and Machine Intelligence, IEEE Trans. on	
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IEEE Syst	ems Journal	
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New! IEE	E Technology Management Package	
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## IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society (UFFC)

The Society encompasses the theory, technology, materials, and applications related to the generation, transmission, and detection of mechanical waves and vibration, their interaction with fields, ferroelectric materials, and frequency control.

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Frequency Internatio	r Control, IEEE/OSA nal Ultrasonics Syr ations of Ferroele	on Ultrasonics, Ferroelectrics, an Journal of Lightwave Technology mposium, IEEE International Symp ctrics, and IEEE International Free	, IEEE osium on
	technology Magazi		
Freq 4x/yr	(print)	(Air freight add: \$44)	
Ultrasonics Online access Freq 12x/yr Applied St For subscrip	s included with membe Product # PER121-PR Iperconductivity, Il obtion information to th	d Frequency Control, IEEE Trans. on rship T (Air freight add: \$102) EEE Trans. on <i>is Council publication see page 39.</i>	\$20
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Freq 12x/yr	naging, IEEE Trans Product # PER138-PR Product # PER138-ELI Product # PER138-EP	T (Air freight add: \$92) E C	\$35 \$25 \$43
<b>IEEE Nano</b>	technology Magazi	ne	

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Pattern Analysis and Machine Intelligence, IEEE Trans. on Freq 12x/yr Product # PER135-EPC	\$26
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IEEE Sensors Journal For subscription information to this Council publication see page 38.	

## **IEEE Vehicular Technology Society (VT)**

The Society concerns itself with land, airborne and maritime mobile, and portable communications services; vehicular electro-technology, automotive industry equipment and systems; and traction power, signals, communications, and control systems.

MEMBERSHIP INCLUDES: (PRODUCT # MEMVT006) IEEE Vehicular Technology Magazine Freq 4x/yr (print & electronic) (Air freight add: \$51)	\$9
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IEEE Wireless Communications Freq 6x/yr Product # PER329-ELE Product # PER329-EPC (Air freight add:\$72)	\$15 \$28

# **IEEE Technical Councils**

## PUBLICATIONS AVAILABLE TO IEEE STUDENTS

A Council is an inter-society group that focuses in a specific area of interest covered by the multiple Societies that sponsor the Council.

## **IEEE Council on Electronic Design Automation**

The Council spans the theory, implementation and use of EDA/CAD tools to design integrated electronic circuits and systems. This includes tools the automate all levels of the design, analysis and verification of hardware and embedded software up to and including complete working systems.

Sponsoring Societies: AP, CAS, C, ED, MTT, and SSC.

#### AVAILABLE TO ALL IEEE MEMBERS & SOCIETY AFFILIATES: Computer-Aided Design of Integrated Circuits and Systems, IEEE Trans. on

Freq 12x/yr	Product # PER139-PRT (Air freight add: \$112)	\$17
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## IEEE Nanotechnology Council

The Council is a multi-disciplinary group whose purpose is to advance and coordinate work in the field of Nanotechnology carried out throughout the IEEE in scientific, literary and educational areas. The Council supports the theory, design, and development of nanotechnology and its scientific, engineering, and industrial applications.

Sponsoring Societies: AES, AP, CAS, CPMT, C, COM, CIS, CS, ED, EMB, EMC, IE, IM, LEO, MAG, MTT, RL, RA, SMC, SSC, and UFFC.

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IEEE Nand	otechnology Magazine	
Freq 4x/yr	Product # PER209-PRT (Air freight add: \$44)	\$10
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	Product # PER209-EPC (Air freight add: \$44)	\$13

## **IEEE Sensors Council**

The Council and its activities shall be the theory, design, fabrication, manufacturing and application of devices for sensing and transducing physical, chemical, and biological phenomena, with emphasis on the electronics, physics and reliability aspects of sensors and integrated sensor-actuators.

Sponsoring Societies: AES, BT, CAS, COM, CPMT, C, DEI, ED, EMB, GRS, IE, IA, IM, LEO, MAG, MTT, NPS, OE, PE, RA, SP, SSC, UFFC, and VT.

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## **IEEE Council on Superconductivity**

The Council concentrates on the Science and Technology of Superconductors and their Applications. Its interests encompass Superconducting Electronics, Superconducting Power Applications, Superconducting Magnets and Devices, and Superconducting Materials. Sponsoring Societies: COM, CPMT, DEI, ED, IM, MAG, MTT, PE, RL, and UFFC.

AVAILABLE TO ALL IEEE STUDENTS:		
<b>Applied S</b>	uperconductivity, IEEE Trans. on	
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#### **IEEE Systems Council**

The Council integrates IEEE activities regarding aspects of multiple disciplines and specialty areas associated with the engineering of systems. This Council covers, but is not limited to the following: Systems engineering, education, standards, processes and methodologies; Modeling, simulation and integration related to design, testing, production and support; Design aspects for robust design, human factors, safety, security and usability; Transition of products from design to production, deployment and use; Quality control and system management; Program/product/project management interactions; Risk management; System architecture.

Sponsoring Societies: AES, CAS, CIS, COM, C, CS, IM, MTT, OE, PEL, RL, RA, and SMC

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