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M. Nurul Abedin, Newsletter Editor-In-Chief
Dominic Matern, Web Editor

Sensors Council News

- **IEEE Sensors Council Annual Four Different Category Awards:**
 - President's Student Research Award,
 - Technical Achievement Award,
 - Meritorious Service Award, and
 - IEEE Sensors Council Journal Best Paper Award.

Nominations are due August 15th, 2009...[\(more\)](#).

2008 Sensors Council Award Winners

- **Technical Achievement Award: Prof. Michael Shur**
- **Meritorious Service Award: Robert T. Bannon**
- **Best Paper Award: I.M. White, H. Zhu, J. Suter, N.M. Hanumegowda, H. Oveys, M. Zourob, and X. Fan.**

Sensor Technology

[Magnetic Sensors](#)

Alan S. Edelstein

Currently, we are primarily using anisotropic magnetoresistive (AMR) sensors and fluxgate sensors for applications requiring high sensitivity vector sensors and optically pumped sensors for applications requiring total field or pT sensitivity. There have been several developments, which promise to provide new types of sensors that will either supplement or replace the current sensors..[\(more\)](#)

Executive Committee Members (2008-2009)



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Conferences
(March 1 2009- 2010)

IEEE Sensors Journal
Editor-In-Chief
(2009-2011)

Publicity Chair



M. Nurul Abedin
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Sensor Conferences

- [IEEE SENSORS 2009: The 8th IEEE Conference on Sensors, Christchurch, New Zealand: Oct. 25th - 28th, 2009](#)
- **IEEE SENSORS 2008:** The 7th IEEE Conference on Sensors, Lecce, Italy, Oct. 26 - 29, 2008.

Terahertz Conferences

- 6th Terahertz Applications Symposium, June 10-12, 2009, Washington D.C.
- 5th Terahertz Applications Symposium, June 4-6, 2008, Washington D.C.

Workshops

- •Advanced Workshop on 'Frontiers in Electronics' (WOFE-09)

December 13-16, 2009, Rincon, Puerto Rico. Abstract Submission

Deadline: Oct. 1st, 2009. Acceptance Notification: Nov. 1st, 2009.

New Books on Sensors

-Handbook of Modern Sensors: Physics, Designs, and Applications (Hardcover) by [Jacob Fraden](#), Jacob Fraden, Publisher: Springer; 3rd Edition (December 4, 2003).

-Sensors and Actuators: Control System Instrumentation (Hardcover) by [Clarence W. de Silva](#), Publisher: CRC; 1 edition (January 29, 2007).

-Sensors and Actuators in Mechatronics: Design and Applications (Hardcover) by [Andrzej M. Pawlak](#), Andrzej M. Pawlak, Publisher: CRC; 1 edition (July 28, 2006).

-Reliability of MEMS: Testing of Materials and Devices (Advanced Micro and Nanosystems) (Hardcover) by [Osamu Tabata](#), [Toshiyuki Tsuchiya](#), [Oliver Brand](#), [Gary K. Fedder](#), [Christofer Hierold](#), [Jan G. Korvink](#), Publisher: Wiley-VCH (February 15, 2008).

-MEMS (Paperback) by [Nitaigour Premachand Mahalik](#), Publisher: McGraw-Hill Education (India) (January 9, 2009).

-Micromixers: Fundamentals, Design, and Fabrication (Micro & Nano Technologies) (Micro & Nano Technologies) (Kindle Edition) by [Nam-Trung Nguyen](#), Publisher: William

Andrew Publishing (February 21, 2008).

-Nano- and Micro-Electromechanical Systems: Fundamentals of Nano- and Microengineering, Second Edition (Nano- and Microscience, Engineering, Technology, and Medicine Series) (Hardcover) by [Sergey Edward Lyshevski](#), Publisher: CRC; 2 edition (January 11, 2005).

-CMOS: Mixed-Signal Circuit Design (IEEE Press Series on Microelectronic Systems) (Hardcover) by [R. Jacob Baker](#), Publisher: Wiley-IEEE Press; 2 edition (December 10, 2008).

-Structured Analog CMOS Design (Analog Circuits and Signal Processing) (Hardcover) by [Danica Stefanovic](#) and [Maher Kaval](#), Publisher: Springer; 1 edition (October 22, 2008).

-Fundamentals of High-Frequency CMOS Analog Integrated Circuits (Hardcover) by [Duran Leblebici](#), Publisher: Cambridge University Press; 1 edition (June 30, 2009).

-Reliability Wearout Mechanisms in Advanced CMOS Technologies (IEEE Press Series on Microelectronic Systems) (Hardcover) by [Alvin W. Strong](#), [Ernest Y. Wu](#), [Rolf-Peter Vollertsen](#), [Jordi Sune](#), [Giuseppe La Rosa](#), [Timothy D. Sullivan](#), [Stewart E. Rauch III](#), Publisher: Wiley-IEEE Press (July 14, 2009).

-Principles of Terahertz Science and Technology (Lecture Notes in Physics) (Hardcover) by [Yun-Shik Lee](#), Publisher: Springer; 1 edition (December 2, 2008).

-Assessment of Millimeter-Wave and Terahertz Technology for Detection and Identification of Concealed Explosives and Weapons (Paperback) by [Committee on Assessment of Security Technologies for Transportation](#) and [National Research Council](#), Publisher: National Academies Press (March 6, 2007).

-Terahertz Science And Technology For Military And Security Applications (Selected Topics in Electronics and Systems) (Hardcover) by [Dwight L. Woolard](#), [James O. Jensen](#), [R. Jennifer Hwu](#), [Michael S. Shur](#), Publisher: World Scientific Publishing Company; illustrated edition edition (September 27, 2007).

-Terahertz Technology and Applications II (Proceedings of Spie) (Paperback) by [Kurt J. Linden](#), [Laurence P. Sadwick](#), [Creidhe M. O'sullivan](#), Publisher: Society of Photo Optical (March 12, 2009).

-Terahertz Techniques (Springer Series in Optical Sciences) (Hardcover) by [Erik Bründermann](#), [Heinz-Wilhelm Hübers](#), [Maurice Kimmitt](#), Publisher: Springer; 1 edition (November 1, 2009).

-Advanced Millimeter-wave Technologies: Antennas, Packaging and Circuits (Hardcover) by [Duixian Liu](#), [Ulrich Pfeiffer](#), [Janusz Grzyb](#), [Brian Gaucher](#), Publisher: Wiley (April 27, 2009).

-Advanced Processing and Manufacturing Technologies for Structural and Multifunctional Materials II: Ceramic Engineering and Science Proceedings (Hardcover) by [Tatsuki Ohji](#), [Mrityunjay Singh](#), Publisher: Wiley-American Ceramic Society (December 31, 2008).

-Smart Sensors and Sensing Technology (Lecture Notes in Electrical Engineering) (Hardcover) by [S.C. Mukhopadhyay](#), [G.S. Gupta](#), Publisher: Springer; 1 edition (August 15, 2008).

Fiber Optic Sensors, Second Edition (Optical Science and Engineering) (Hardcover) by [Shizhuo Yin](#), [Paul B. Ruffin](#), [Francis T.S. Yu](#), Publisher: CRC; 2 edition (March 27, 2008).

-Label-Free Biosensors: Techniques and Applications (Paperback) by [Matthew A. Cooper](#), Publisher: Cambridge University Press; 1 edition (February 2, 2009).

- Biosensors: Properties, Materials and Applications (Hardcover) by [Rafael Comeaux](#), [Pablo Novotny](#), Publisher: Nova Science Pub Inc (July 2009).
- Biosensors and Biodetection: Methods and Protocols Volume 1: Optical-Based Detectors (Methods in Molecular Biology) (Hardcover) by [Avraham Rasooly](#), [Keith E. Herold](#), Publisher: Humana Press; 1 edition (December 10, 2008).
- Desert Olive Oil Cultivation: Advanced Bio Technologies (Hardcover) by [Zeev Wiesman](#), Publisher: Academic Press (April 6, 2009).
- Bio-Inspired Technologies for the Hardware of Adaptive Systems: Real-World Implementations and Applications (Studies in Computational Intelligence) (Hardcover) by [Mircea Gh. Negoita](#), [Sorin Hintea](#), Publisher: Springer; 1 edition (March 24, 2009).

[Magnetic Sensors 2009 for WEB Sensors Council Newslette](#)