



Industrial Electronics Society Members Elevated to IEEE Fellows



Mohammad Islam

For development of electromagnetic sensors and actuators for automotive applications

Dr. Mohammad

Islam received his B.Sc. and M.Sc. degrees from Bangladesh University of Engineering and Technology (BUET), Dhaka, and his Ph.D. degree from the University of Akron, Ohio, all in electrical engineering, in 1994, 1996, and 2001, respectively. Currently, he is a chief scientist at Halla Mechatronics in Bay City, Michigan, where he is responsible for motors, sensors, actuators, and electromagnetic-compatibility/interference-related issues for automotive applications. From 1994 to 1996, he was with the Electrical and Electronic Engineering Department of BUET as a lecturer. From 2001 to 2013, he was with Delphi Steering and Nexteer Automotive in Saginaw, Michigan, as staff research engineer at the Innovation Center. He is widely known in the automotive industry for the development of innovative, low-cost sensors and actuators, particularly torque sensors, position sensors, steering actuators, and permanent-magnet brushless motors. Since their inception, the sensors and motors have been produced in the millions by many automotive original equipment manufacturers worldwide. He holds 24 U.S. patents and published 17 journal and 26 conference papers as well as one

book chapter. He is currently serving as the vice chair of the Transportation Systems Committee and the chair of the IEEE Industry Applications Society Awards Department.



Annette Muetze

For contributions to the analysis and mitigation of bearing currents in variable-speed drives

Annette Muetze

received her Dipl.-Ing. degree in electrical engineering from Darmstadt University of Technology, Germany, and her degree in general engineering from the École Centrale de Lyon, Ecully, France, both in 1999, as well as her Dr.-Ing. degree in electrical engineering from Darmstadt University of Technology in 2004. Since 2010, she has been a full professor at Graz University of Technology, Austria, where she heads the Electric Drives and Machines Institute. Before joining Graz University of Technology, she was an assistant professor at the Electrical and Computer Engineering Department, University of Wisconsin-Madison, and as an associate professor at the School of Engineering, University of Warwick, United Kingdom. She is a Senior Member of the IEEE.

Armando Colombo

For contributions to industrial cyber-physical systems

Armando Walter Colombo received his M.Sc. degree in control system engineering from the National University of San Juan, Argentina, in 1994 and his doctoral degree in engineering from



the University of Erlangen-Nuremberg, Germany, in 1998. He has been a full professor at the University of Applied Sciences Emden-Leer, Ger-

many, and the director of the Institute for Industrial Informatics, Automation, and Robotics since 2010 and 2012, respectively. He is also an Edison Level 2 Group senior expert and, since 2001, innovation program manager at Schneider Electric, Industrial Business Unit. His research interests are in the fields of industrial cyberphysical systems, system-of-systems engineering, service-oriented architectures, and collaborative automation. He holds 30 patents and has more than 250 peer-reviewed publications, including journal and conference papers, books, and book chapters. He is chair of the IEEE Industrial Electronics Society (IES) Technical Committee (TC) on Industrial Cyberphysical Systems. He served/serves as advisor for the definition of R&D&I priorities within Framework Programs 6, 7, and 8 (HORIZON 2020) of the European Union and as an expert of the European Research Executive Agency and the German BMBF/DLR IKT-Program.



Gerhard Hancke

For contributions to wireless sensor networks

Gerhard P. Hancke received the SA Department of Trade and Industry

THRIP Technology Award in the SMME Development Category in 2007 and the Advanced Hi-Tech Category in 2011. He is the head of the Advanced Sensor Networks (ASN) Research Group at the University of Pretoria, South Africa. His group was awarded a Chair in ASN by the SA Department of Science and Technology. He initiated and coedited the first special section on industrial wireless sensor networks in *IEEE Transactions on Industrial Electronics* in 2009, and the position paper he coauthored for this edition has since been cited more than 700 times. He coedited the first book on industrial wireless sensor networks. He served on the IEEE Board as chair of various committees and a member of the IES Administrative Committee (AdCom) for the past 17 years, six as a secretary and ten as a senior member. He has been active in the organization of IEEE conferences, notably as general (co)chair of the 1998 IEEE International Symposium on Industrial Electronics in Pretoria, South Africa; the 2007 IEEE International Conference on Industrial Informatics in Vienna, Austria; and the 2013 IEEE International Conference on Industrial Technology in Cape Town, South Africa, as well as the IEEE AFRICON series in Sub-Saharan Africa. He received the 2007 IEEE Larry K. Wilson International Award, “for inspiring membership development and services as a member of several regional and technical conferences worldwide.”



Sudip Mazumder
For contributions to analysis and control of power electronics systems

Sudip K. Mazumder received his Ph.D. degree from Virginia Tech, Blacksburg, in 2001. He is a professor at the University of Illinois, Chicago (UIC), and is the president of NextWatt LLC. He has more than 24 years of professional experience, held research and development and design positions in leading industrial organizations, and served as a technical consultant for several industries. He published about 200 refereed papers

and delivered more than 70 invited presentations. He is the recipient of UIC’s Inventor of the Year Award (2014), the University of Illinois’ University Scholar Award (2013), the ONR Young Investigator Award (2005), the U.S. National Science Foundation CAREER Award (2003), and the IEEE Power Electronics Society (PELS) Transaction Paper Award (2002). He was invited to serve as a Distinguished Lecturer for IEEE PELS in 2016. He served/serves as the guest editor-in-chief/editor for IEEE PELS/IES transactions between 2013 and 2014, as the first editor-in-chief for *Advances in Power Electronics* (2006–2009), and as an associate editor for IEEE IES/PELS Transactions on Aerospace and Electronic Systems (2003–/2009–/2008–). Currently, he serves as the chair for the IEEE PELS TC on Sustainable Energy Systems.



Marcelo Simoes
For application of artificial intelligence in control of power electronics systems

Marcelo Simões received his B.Sc. and M.Sc. degrees from the University of São Paulo, Brazil, and his Ph.D. degree from the University of Tennessee in 1985, 1990, and 1995, respectively. He received his D.Sc. degree (Livro-Docência) from the University of São Paulo in 1998. He was a Fulbright Fellow for 2014–2015, working for Aalborg University, Institute of Energy Technology (Denmark). He is a pioneer in applying neural networks and fuzzy logic in power electronics, motor drives, and renewable energy systems. His fuzzy-logic-based modeling and control for wind turbine optimization is used as a basis for advanced wind turbine control, and it has been cited worldwide. His leadership in modeling fuel cells is international and highly influential in providing a basis for further developments in fuel cell automation control in many engineering applications. He made substantial and lasting contributions to artificial intelligence technology in many applications, power electronics and motor drives, fuzzy control of wind

generation systems such as fuzzy logic-based waveform estimation for power quality, neural network-based estimation for vector controlled motor drives, and integration of alternative energy systems to the electric grid through artificial intelligence modeling-based power electronics control.



Giovanni Spagnuolo
For contributions to control of photovoltaic systems

Giovanni Spagnuolo received his M.Sc. degree in electronic engineering from the University of Salerno, Italy, in 1993 and his Ph.D. degree in electrical engineering from the University Federico II of Napoli, Italy, in 1998. From 1999 to 2003, he was an assistant professor of electrical engineering at the University of Salerno, where, since 2004, he has been associate professor. From 2012 to 2014, he chaired the IES Technical Committee on Renewable Energy Systems. Since January 2011, he has been serving as a member of the Steering Committee and editor of *IEEE Journal of Photovoltaics*. Since January 2007, he has been serving as associate editor of *IEEE Transactions on Industrial Electronics*, for which he has also been coguest editor of five special sections. He is the principal investigator for several industrial research projects and for some FP7 and H2020 projects conducted at his university. He is co-author of five international patents, one book, and more than 60 papers published in international journals. He is in the 2015 list of Highly Cited Researchers from Thomson Reuters.



Vassilios Agelidis
For contributions to power electronics, renewable energy conversion, and integration with electricity grid

Vassilios Agelidis graduated from Democritus University of Thrace, Greece, with a bachelor of electrical engineering

IEEE INDUSTRIAL ELECTRONICS SOCIETY OFFICERS FOR 2016



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Term expires 2017:

Toshiyuki Murakami
Leila Parsa

Term expires 2018:

Yasutaka Fujimoto
Jan Haase
Yousef Ibrahim
Kan Yuang Jo
Peter Korondi
Eric Monmasson
Stoyan Nihtianov

at the University of New South Wales, Sydney. In 2015, he was with the ABB Corporate Research Centre, Västerås, Sweden, for a sabbatical. He has also been a visiting professor at Beijing Jiaotong University, China, since 2011 under the Chinese Government's High End Experts Program. In 2004, he was awarded the United Kingdom's prestigious EPSRC Advanced Research Fellowship. In 2010, he received the Electrica Awards First Prize, an International Innovation contest organized by the Paris-based AREVA T&D.



Henry Chung

For contributions to power electronic converters for lighting

Henry Shu-hung Chung received his B.Eng. degree

and his Ph.D degree in electrical engineering from The Hong Kong Polytechnic University, Hong Kong, in 1991 and 1994, respectively. Since 1995, he has been with the City University of Hong Kong. He is currently a professor of the Department of Electronic Engineering and the director of the Centre for Smart Energy Conversion and Utilization Research. His research interests include renewable energy conversion technologies, lighting technologies, smart grid technologies, and computational intelligence

degree in 1988 with first class honors. He obtained his master of applied science degree from Concordia University, Montreal, Quebec, Canada, in 1992. He also received a Ph.D. degree in electrical engineering in 1997, a graduate diploma of business in 2000, and a graduate certificate of education in 1994, all from Curtin University, Perth, Western Australia. Subsequently, he was with the

University of Glasgow, United Kingdom (2000–2004) and Murdoch University, Perth (2005–2006). He held the industry-funded Energy Australia Professorial Chair of Power Engineering at the University of Sydney, Australia (2007–2010). Since 2010, he has been the director of the Australian Energy Research Institute and a professor at the School of Electrical Engineering and Telecommunications

for power electronic systems. He edited one book and authored eight research book chapters and more than 350 technical papers, including 170 refereed journal papers in his research areas. He holds 35 patents. He was chair of the PELS TC on High-Performance and Emerging Technologies in 2010–2014. He is currently editor-in-chief of *IEEE Power Electronics Letters* and an associate editor of *IEEE Transactions on Power Electronics* and *IEEE Journal of Emerging and Selected Topics in Power Electronics*. He received numerous industrial awards for his invented energy saving technologies.



Tsorng-Juu Liang

For contributions to power conversion for lighting and sustainable energy

Tsorng-Juu Liang received his M.S. and Ph.D. degrees in electrical engineering from the University of Missouri, Columbia, in 1990 and 1993, respectively. Currently, he is a distinguished professor of the Electrical Engineering Department and the director of the Green Energy Electronics Research Center, National Cheng-Kung University, Tainan, Taiwan. He has been on the Board of Directors for Catcher Technology, and Compucase Enterprise, EpiLED, and Leadtrend Technology. He is an associate editor of *IEEE Transactions on Power Electronics* and *IEEE Journal of Emerging and Selected Topics in Power Electronics* and has been an associate editor of *IEEE Transactions on Circuits and Systems I*. He was a Distinguished Lecturer in the IEEE Circuits and Systems Society from 2014 to 2015. In 2005, he was awarded the Electric Power Applications Premium from The Institution of Electrical Engineers. His research interests include power integrated circuit design, high-efficiency power converters, high-efficiency lighting systems, and renewable energy conversion. He led more than 100 successful large-scale national and industrial projects, which helped him in developing several novel technologies for converters, lightings, and

EDITORS-IN-CHIEF FOR 2016



IEEE Transactions on Industrial Electronics Editor

Prof. Leopoldo G. Franquelo, Universidad de Sevilla, Spain



IEEE Transactions on Industrial Informatics Editor

Prof. Kim-Fung Man, City University, Hong Kong



IEEE Industrial Electronics Magazine Editor

Prof. Thilo Sauter, Vienna University of Technology, Austria

NEW SENIOR AND LIFE MEMBERS OF THE IES ADCOM

Members of the IEEE Industrial Electronics Society (IES) who have devoted ten or more years of service to the Society as an officer, Administrative Committee (AdCom) member, transactions editor, major conference chair, newsletter editor, and the like, shall be eligible for election as a senior member of the AdCom. The election is conducted at the Annual Meeting of the Society by the AdCom. The newly elected senior member of the AdCom is Kiyoshi Ohishi.

LIFE MEMBERS OF THE ADCOM

This special category of AdCom membership can be awarded by the AdCom to IES members who have exhibited extraordinary service and leadership in Society activities. Nominees for this honor shall have been a senior member of the AdCom and have had 30 years of membership in the IEEE. New life members of the AdCom are Kamal Al-Haddad and Leopoldo Garcia-Franquelo.

photovoltaic maximum power tracking. These technologies also helped industry companies greatly in producing valuable products. He published 69 journal papers, more than 170 conference papers, and 32 patents.



Xinbo Ruan

For contributions to switching-mode power converter topologies and modulation strategies

Xinbo Ruan received his B.S. and Ph.D. degrees in electrical engineering from Nanjing University of Aeronautics and Astronautics (NUAA), Nanjing, China, in 1991 and

1996, respectively. In 1996, he joined the College of Automation Engineering, NUAA, where he became a professor in 2002. He is the author or coauthor of seven books and more than 200 technical papers published in journals and conference proceedings. His main research interests include soft-switching dc-dc converters, power factor correction converters, power electronics system integration, and renewable energy generation systems. He was a recipient of the Special Appointed Professor of the Chang Jiang Scholars Program by the Ministry of Education, China, in 2007. From 2005 to 2013, he served as vice president of the China Power Supply Society. Since 2014, he

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Joern Ploennigs (Building Automation, Control, and Management)
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Andreja Rojko (Education in Engineering and Industrial Technologies)
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Ray Chak-Chung Cheung (Electronic Systems-on-Chip)
Federico Baronti (Energy Storage)
Lucia Lo Bello (Factory Automation)
Sho Yokota (Human Factors)
Stamatis Karnouskos (Industrial Agents)
Armando Colombo (Industrial Cyberphysical Systems)
Valeriy Vyatkin (Industrial Informatics)
Ridha Ben Mrad (MEMS and Nanotechnologies)
Toshiaki Tsuji (Motion Control)
Qing-Long Han (Network-based Control Systems and Applications)
Herb Hess (Power Electronics)
Ramon Blasco-Gimenez (Renewable Energy Systems)
Mo Yuen Chow (Resilience and Security for Industrial Applications)
Yasutaka Fujimoto (Sensors and Actuators)
Peter Palensky (Smart Grids)
Victor Huang (Standards)
Akshay Rathore (Transportation Electrification)



Jose R. Rodriguez received his engineer degree in electrical engineering from the Universidad Técnica Federico Santa María, Valparaíso,

Chile, in 1977 and his Dr.-Ing. degree in electrical engineering from the University of Erlangen, Germany, in 1985. He has been with the Department of Electronics Engineering, Universidad Técnica Federico Santa María, since 1977, where he was full professor and president. Since 2015, he has been the president of Universidad Andres Bello in Santiago, Chile. He coauthored two books, several book chapters, and more than 400 journal and conference papers. His main research interests include multilevel inverters, new converter topologies, control of power converters, and adjustable-speed drives. He has much experience as a consultant for the mining industry, the most important economic area of Chile. Among his work for industry, the regenerative conveyor belts of Los Pelambres mining company generate more than 10 MW of power using modern converter technology. This project was recognized in 2013 by the Academy of Sciences of Chile as one of the 12 most outstanding innovation projects with high scientific value in all areas of economic activity in Chile in the last 40 years. During his career, he organized many seminars, workshops, and conferences dedicated to the application of power electronics in industry. He organized more than ten special sections of IEEE journals in different topics of power electronics. In 2014, he was ranked first in the world by Microsoft Academic in all areas of engineering as the most cited author of the world, considering the publications of the last five years. In 2014, he was the only Chilean included in the list of the World's Most Influential Scientific Minds, considering the impact of his publications in the scientific community. He received a number of best paper awards from IEEE journals. He is a member of the

served as vice chair of the IES TC on Renewable Energy Systems. At present, he is an associate editor for *IEEE Transactions on Industrial Electronics*, *IEEE Transactions on Power Electronics*, and *IEEE Journal of Emerging and Selected Topics on Power Electronics*.



Ting-Chung Poon
For contributions to optical image processing and digital holography

Ting-Chung Poon is a professor of electrical and

computer engineering at Virginia Tech, Blacksburg. His current research interests include three-dimensional (3-D) image processing and optical scanning holography. He is the author of several monographs and textbooks on optics and served as a guest editor of, among other journals, *International Journal of Optoelectronics* and *Optical Engineering*. He served as a topical editor/division editor of *Applied Optics* from 2004 to 2014. Currently, he is associate editor-in-chief

of *Chinese Optics Letters* and an associate editor of *IEEE Transactions on Industrial Informatics*. He is the founding chair of the Optical Society (OSA) topical meeting, Digital Holography and 3-D Imaging (2007). He has been a member of the Board of Editors of the OSA and is currently on the editorial boards of *Optics and Laser Technology*, *Journal of Holography and Speckle*, and *3D Research*. He is a fellow of the OSA, the International Society for Optics and Photonics, and the Institute of Physics.

2015 IES Awards

The annual IES Awards were presented during a ceremony at the 41st Annual Conference of the IEEE IES (IECON) in Yokohama, Japan (Figure 1).

2015 Dr.-Ing. Eugene Mittelmann Achievement Award

Recipient: Jose R. Rodriguez

Citation: For contributions to the development of matrix and multilevel converters and control in power electronics and drives

Chilean Academy of Engineering and received the National Award of Applied Sciences and Technology from the government of Chile in 2014. He is a Fellow of the IEEE.

2015 Anthony J. Hornfeck Service Award



Recipient: Leopoldo García Franquelo

Citation: For outstanding services to the IEEE IES with vision, diligence, and quality

Leopoldo García Franquelo received his M.Sc. and Ph.D. degrees in electrical engineering from the Universidad de Sevilla, Spain, in 1977 and 1980, respectively. In 1978, he joined the Universidad de Sevilla as a research assistant, becoming an associate professor in 1982 and a professor in 1986. From 1998 to 2005, he was the director of the Electronics Engineering Department. His technical interests started in 1978 with microprocessor industrial electronics applications, evolving to power electronics applications and, in the 1990s, to application-specific integrated circuit design for the control of power converters. His current research interest lies in modulation and control techniques for multilevel inverters and their application to power electronic systems for renewable energy systems integration. He is the author of more than 70 publications in international journals (66 in IEEE transactions and magazines), 218 in international conferences, 17 book chapters, and 17 patents. He was the advisor for six Ph.D. dissertations and participated in more than 110 research and development projects. His research team has been awarded the “Excellence Status” by the Andalusian government. His activities in the IES can be summarized as follows: He was the vice president of the IES Spanish Chapter (2002–2003), a member at large of the IES AdCom (2002–2003), vice-president for conferences (2004–2007), IES president elect (2008–2009), and IES



FIGURE 1 – After the award ceremony at IECON 2015: (from left) Mariusz Malinowski, Samir Kouro, Bimal Bose, and Jose Rodriguez.

president (2009–2011). He has been a past president of the IES since 2012. He was a senior IES AdCom member (2009–2015) and is currently a life IES AdCom member (since 2015). He has been a Distinguished Lecturer since 2006. Among others, he was the recipient of the 2012 IEEE IES Dr.-Ing. Eugene Mittelmann Achievement Award “for excellence in research on power converter topologies, modeling, modulation and control techniques for high-power applications and renewable energy systems,” recipient of the Andalusian government II Award Andalucía for Research Juan López Peñaver in 2009, and the University of Sevilla FAMA Award to the Best Research Career in Engineering and Architecture in 2013. He received three best paper awards: the 2008 and 2015 Best Paper Award of *IEEE Industrial Electronics Magazine* and the 2012 Best Paper Award of *IEEE Transactions on Industrial Electronics*. Has been a reviewer for *IEEE Transactions on Industrial Electronics* for more than 25 years, an associate editor since 2007, co-editor-in-chief (EIC) since 2014, and has been elected EIC for the period 2016–2018. He is a Fellow of the IEEE.

2015 J. David Irwin Early Career Award

Recipient: Samir Kouro

Citation: For contributions to research and development of multilevel converter technology and its application to



renewable energy conversion systems

Samir Kouro received his M.Sc. and Ph.D. degrees in electronics engineering from the Universidad Tecnica Federico Santa Maria (UTFSM), Valparaíso, Chile, in 2004 and 2008, respectively. In 2008, he joined the Electronics Engineering Department, UTFSM, as research associate, where he currently holds an associate professor position. From 2009 to 2011, he was a postdoctoral fellow in the Department of Electrical and Computer Engineering, Ryerson University, Toronto, Canada. His research interests include power electronics, renewable energy conversion systems (photovoltaic and wind), and automotive applications. He directed six National Science and Technology Development Fund projects (Fondcyt); is principal investigator of the Solar Energy Research Center, one of the centers of excellence in national priority areas of Chile; and the titular researcher of the Advanced Center for Electrical and Electronic Engineering, one of the technology transfer centers of excellence in Chile. He coauthored one book, four book chapters, and more than 100 refereed journal and conference papers. He has served as guest editor of a special section in *IEEE Transactions on Industrial Electronics* (2013–2014)

and one in *IEEE Transactions on Power Electronics* (2014–2015). He received the 2012 IEEE PELS Richard M. Bass Outstanding Young Power Electronics Engineer Award, the 2012 *IEEE Industry Applications Magazine* First Prize Paper Award, the 2011 *IEEE Transactions on Industrial Electronics* Best Paper Award, the 2008 *IEEE Industrial Electronics Magazine* Best Paper Award, and the 2005 Ismael Valdes Award from the Institute of Engineers of Chile. He was recognized by the president of the republic as the youngest researcher of the National Science and Technology Commission in 2004.

2015 IEEE IES Bimal Bose Award for Industrial Electronics Applications in Energy Systems

Recipient: Mariusz Malinowski

Citation: For contributions in control of industrial electronics converter applications in energy systems

Mariusz Malinowski received his Ph.D. and D.Sc. degrees with honors in electrical engineering from the Warsaw University of Technology (WUT), Poland, in 2001 and 2012, respectively. Currently, he is a professor



at WUT. He received the following awards and honors: a scholarship from the Foundation for Polish Science (Start and Kolomb Programs) in 2001 and 2003, the Siemens Prize for his Ph.D. thesis in 2002, a Polish Minister of Science and Higher Education award for his contribution to the book *Control in Power Electronics* in 2003, the Siemens Prize for research achievements in 2007, the Polish Minister of Science and Higher Education awards for research achievements in 2008, the IEEE IES David Irwin Early Career Award in 2011, the Prime Minister of Poland award for habilitation in 2013, and the Scientific Award of WUT in 2015. He participated in the development of technologies that have received many prizes, e.g., recognition in the competition Polish Product of the Future organized by the Polish Agency for Enterprise Development, the Grand Prix Exhibition of Innovations in Geneva (Gold Medal), the Exhibition in Brussels “Eureco” (Bronze Medal),

and the International Exhibition of Inventions in Warsaw (Silver Medal). He has published more than 150 journal and conference papers. His total number of citations according to Google Scholar is over 4,900, and his H-index is 25. He holds four patents (two implemented by industry) and is the coauthor of six books. He participated in more than 20 research and industrial projects. He held numerous positions in the IEEE, including Editor-in-Chief of *IEEE Industrial Electronics Magazine* during 2010–2012 (STC International Summit Awards), associate editor of *IEEE Transactions on Industrial Electronics* since 2005, associate editor of *IEEE Transactions on Power Electronics* since 2012, IES student activity chair (2005–2009), IES vice president for workshop activities (2014–2015), vice president of IEEE Poland Section (2014–2015), and president of IEEE Poland Section since 2016. He served as a co-organizer for more than 20 international IEEE conferences from 2003 to 2015, and he was also a co-organizer in 2014 of the first IEEE Milestone in Poland.

Call for Industrial Electronics Society Awards Nominations

The IEEE Industrial Electronics Society (IES) is soliciting nominations for the following Society awards. The deadline for nominations is 1 May 2016. For more details, including eligibility, prize, and nomination procedures, please refer to the award specifications at <http://iee-ies.org/index.php/about/awards/> or make an inquiry at awards@iee-ies.org. Please submit the nomination form and reference forms

to the IES Awards and Honor Committee chair, Prof. Hiromasa Haneda, at awards@iee-ies.org.

Dr.-Ing. Eugene Mittelmann Achievement Award

This award is offered to a member with outstanding contributions to the field of industrial electronics.

Anthony J. Hornfeck Service Award

This award is offered to a member with outstanding meritorious services to the IES.

Bimal Bose Award for Industrial Electronics Applications in Energy Systems

This award was established in 2014. It is offered to a young researcher member with outstanding contributions to the field of industrial electronics applied to power electronics and energy systems.

J. David Irwin Early Career Award

This award is offered to an early career member with significant contributions to the advancement of the field of industrial electronics.