

---

# IEEJ Industry Applications Society

## *Board of Society*

**President:** Shinzo Tamai, Toshiba Mitsubishi-Electric Industrial Systems

**Editor in Chief:** Kiyoshi Ohishi, Nagaoka University of Technology

**Vice Presidents:** Takaharu Takeshita, Nagoya Institute of Technology and Kouetsu Fujita, Fuji Electric Systems

**Officers, Planning & General Affairs:** Hiroyuki Ohsaki, The University of Tokyo and Mikihiko Matsui, Tokyo Polytechnic University

**Officers, Treasurers:** Yasushi Matsumoto, Fuji Electric Systems and Kazumasa Ide, Hitachi

**Officers, Editorial Affairs:** Kazunobu Ohyama, Daikin Industries and Hideaki Fujita, Tokyo Institute of Technology

**Officers, R&D Management:** Hisao Kubota, Meiji University and Tatsuo Teratani, Toyota Motor

**Globalization Promotion Charge:** Toshihisa Shimizu, Tokyo Metropolitan University

**Auditors:** Takashi Yamashita, NTT Facilities Research Institute and Teruo Yoshino, Toshiba Mitsubishi-Electric Industrial Systems

**Officers:** Masaki Eguchi, Sharp, Atsuo Kawamura, Yokohama National University, Suzuo Saito, Toshiba,

Toshihisa Shimizu, Tokyo Metropolitan University, Yosuke Nakazawa, Toshiba, Yasuyuki Nishida, Chiba Institute of Technology,

Yoichi Hori, University of Tokyo, Toshiyuki Murakami, Keio University and Ichiro Miki, Meiji University

## *R&D Steering Committee*

**Chairperson:** Takaharu Takeshita, Nagoya Institute of Technology

**Vice Chairpersons:** Hisao Kubota, Meiji University and Tatsuo Teratani, Toyota Motor

**Secretaries:** Masaaki Shibata, Seikei University and Toshiaki Tsuji, Saitama University

**Members:** Kazunobu Ohyama, Daikin Industries, Keiichiro Kondo, Chiba University, Kentaro Suzuki, Toshiba, Hirokazu Seki,

Chiba Institute of Technology, Hitoshi Hasegawa, Railway Technical Research Institute, Hiroshi Fujimoto, The University of Tokyo,

Takashi Izumi, Nihon University, Norimitsu Ichikawa, Kogakuin University, Tsuneo Ogura, Toshiba, Tomoo Katauri, Toshiba,

Hisao Kubota, Meiji University, Masaru Sakuma, Waterworks Bureau of Tokyo Metropolitan Government, Junji Tamura,

Kitami Institute of Technology, Makoto Tsukiyama, M-TEC, Tatsuo Teratani, Toyota Motor, Kazushi Nakano,

University of Electro-Communications, Hideo Nakamura, Nihon University, Kenji Hashizume, Nippon Steel, Hiroshi Hashimoto,

Advanced Institute of Industrial Technology, Yoshiyuki Mineo, Mitsubishi Electric Engineering and Hiroyuki Wakiwaka, Shinshu University

## *Global Activity Committee*

**Chairperson:** Toshihisa Shimizu, Tokyo Metropolitan University

**Vice Chairperson:** Yasuyuki Nishida, Chiba Institute of Technology

**Secretary:** Kazumasa Ide, Hitachi

**Members:** Kiyoshi Ohishi, Nagaoka University of Technology, Toshiyuki Murakami, Keio University, Yasushi Matsumoto, Fuji Electric Systems,

Hiroyuki Ohsaki, The University of Tokyo, Hisao Kubota, Meiji University, Kazunobu Ohyama, Daikin Industries, Atsuo Kawamura,

Yokohama National University, Ichiro Miki, Meiji University, Suzuo Saito, Toshiba and Mikihiko Matsui, Tokyo Polytechnic University

## *Editorial Committee*

**Chairperson:** Kouetsu Fujita, Fuji Electric Systems

**Vice Chairperson:** Kazunobu Ohyama, Daikin Industries and Hideaki Fujita, Tokyo Institute of Technology

**Secretary:** Seiichiro Katsura, Keio University and Takafumi Domoto, Toshiba

**Member:** Kenji Terada, The University of Tokushima, Kentaro Suzuki, Toshiba, Mikihiko Matsui, Tokyo Polytechnic University,

Nobutaka Bando, Japan Aerospace Exploration Agency, Shuji Watanabe, Matsue College of Technology, Akihisa Matsushita, Toshiba,

Ikuya Sato, Fuji Electric Holdings, Masakazu Michihira, Kobe City College of Technology, Takayoshi Nagai, Mitsubishi Electric,

Hiroshi Igarashi, Tokyo Denki University, Katsushi Terazono, Yaskawa Electric, Katsumi Ishikawa, Hitachi,

Satomi Hattori, Shizuoka Institute of Science and Technology, Makoto Hagiwara, Tokyo Institute of Technology,

Hiroyuki Sugahara, Railway Technical Research Institute, Yutaka Uchimura, Shibaura Institute of Technology, Hirokazu Nagura, Hitachi,

Shinichi Nomura, Meiji University, Hirotoshi Kawai, Toshiba, Akira Takahama, Hitachi,

Ruben Inzunza, Toshiba Mitsubishi-Electric Industrial Systems, Hironobu Minowa, NTT, Nobuyuki Kasa, Okayama University of Science,

Mitsuyoshi Ejiri, Meidensha, Toshimasa Miyazaki, Nagaoka University of Technology, Kazuya Kishida, Toyo Electric Mfg.,

Shingo Hishikawa, Hitachi Medical, Atsushi Kato, Sumitomo Heavy Industries and Mitsunori Kamo, Yaskawa Electric

## *Program Committee*

**Editor in Chief:** Kiyoshi Ohishi, Nagaoka University of Technology

**Secretary:** Toshiyuki Murakami, Keio University

### *Power Electronics Subcommittee (D1):*

**Chairperson:** Keisuke Fujisaki, Toyota Technological Institute, **Vice chairperson:** Noriyuki Kimura, Osaka Institute of Technology

**Secretary:** Toshihiko Noguchi, Shizuoka University, Hideki Ayano, Hitachi, Hirohito Funato, Utsunomiya University, Kazuaki Yuuki, Toshiba,

Masahito Shouyama, Kyushu University and Ryuichi Oguro, Kyushu Institute of Technology

### *Industrial Systems Subcommittee (D2):*

**Chairperson:** Kenji Terada, The University of Tokushima, **Vice chairperson:** Masayuki Morimoto, Tokai University

**Secretary:** Norimitsu Ichikawa, Kogakuin University, Makoto Iwasaki, Nagoya Institute of Technology, Katsuyuki Kamei, Mitsubishi Electric,

Kenji Suzuki, University of Tsukuba, Satoshi Takahashi, Nagoya Electric Works, Satoru Takahashi, Kagawa University

and Takashi Yamaguchi, Ricoh

### *Electrical Machinery and Apparatus Subcommittee (D3):*

**Chairperson:** Fuyuto Takase, Setsunan University, **Vice chairperson:** Haruyuki Kometani, Mitsubishi Electric

**Secretary:** Toshiaki Murai, JR Central, Tsuyoshi Higuchi, Nagasaki University, Hiroyuki Mikami, Hitachi, Keiichiro Kondo, Chiba University,

and Isao Hirotsuka, Chubu University