

**Table 1: Topical Categories and Scope of the IEEJ Transactions**

| Society Transaction                                   | Scope   |   |
|---|---|---|
| Transactions A<br>(Fundamentals and Materials)        | <p>(Common Interests)<br/>           Education and Research<br/>           Electromagnetic Theory<br/>           Electromagnetic Environment<br/>           Instrument and Measurement<br/>           Light Applications and Visual Science<br/>           History of Electrical Engineering</p> <p>(Fundamentals)<br/>           Discharges and Plasma<br/>           Pulsed Power</p> | <p>(Materials)<br/>           Dielectric Materials<br/>           Electrical, Electronics, and Insulating Materials<br/>           Metals and Ceramics<br/>           Magnetics</p>   |
| Transactions B (Power and Energy)                     | <p>(Power System)<br/>           Power System Planning and Operation<br/>           Power System Control<br/>           Power System Analysis and Simulation<br/>           Power System Protection<br/>           Power System monitoring and Control<br/>           Energy System</p>   | <p>(Energy Conversion and Transmission)<br/>           Transmission and Distribution Lines and Cables<br/>           Transmission and Distribution Apparatus, Insulators<br/>           Switchgear and Protective Devices, Lightning Protection, Arc Phenomena<br/>           Substation Apparatus and Devices<br/>           Superconducting Devices<br/>           High Voltage, Lightning and Surge<br/>           Energy Conversion and Storage<br/>           Other Power System Apparatus</p> |
| Transactions C (Electronics, Information and Systems) | <p>(Electronics)<br/>           Electronic Materials and Devices<br/>           Optics, Quantum Electronics<br/>           Electrical and Electronic Circuit, LSI<br/>           Information and Communication Technology<br/>           Biomedical Engineering</p>   | <p>(Information and Systems Engineering )<br/>           Systems, Instrument, Control Intelligence, Robotics<br/>           Media Information, User Interface<br/>           Speech and Image Processing, Recognition<br/>           Softcomputing, Learning Information System, Electronic Commerce<br/>           Information Processing, Software<br/>           Energy, Environment and Sustainability</p>  |

| Society Transaction  | Scope  |   |
|--|--|---|
| <p>Transactions D (Industry Applications)</p> <p>IEEJ Journal of Industry Applications</p> | <p>(Power Electronics)<br/> Power Semiconductor Devices and their Application<br/> Power Converter and Control Circuit Topology<br/> Power Supply<br/> Electric Machine Control<br/> Reactive Power Compensation and Harmonic Reduction<br/> Metal and General Industry</p> <p>(Industrial System)<br/> Industrial Instrument and Control<br/> Production Facility Control<br/> Information Oriented Industrial System<br/> Public Facilities<br/> Automobile Technology<br/> ITS Technology</p> | <p>(Electrical Machinery and Apparatus)<br/> Rotating Machine<br/> Rotating Machine Characteristic<br/> Linear Drives<br/> Magnetic Levitation and Magnetic Bearing<br/> Static Apparatus<br/> Superconductive Application<br/> Electric Railway</p>  |
| <p>Transactions E (Sensors and Micromachines)</p>  | <p>(Fundamental Technology)<br/> Design, Analysis, Simulation<br/> Material<br/> Material and device characterization<br/> Fabrication<br/> Packaging and assembling</p> <p>(Microsystem)<br/> Actuator<br/> Optical microsystem<br/> RF MEMS<br/> Power MEMS<br/> NEMS<br/> New terrain in microsystem</p> <p>(Sensor system)<br/> Sensing system<br/> Sensing algorism<br/> Sensor network<br/> Sensor application</p>   | <p>(Physical sensor)<br/> Mechanical sensor<br/> Temperature and humidity sensor<br/> Light, radiation sensor<br/> Electrical, Magnetic sensor<br/> Resonant sensor<br/> Sensor using new theory or method</p> <p>(Chemical sensor)<br/> Gas sensor<br/> Ion sensor<br/> Bio sensor<br/> Biomimetic sensor<br/> Micro-chemical sensor<br/> Chemical sensor system</p> <p>(Bopmicrosystem)<br/> BioMEMS<br/> Micro-TAS<br/> Lab-on-chip<br/> Micro healthcare system</p> |
| <p>TEEE (IEEJ Transactions on Electrical and Electronic Engineering)</p>                   | <p>Covering all fields from Transaction A to E described above.</p>  |   |