― Special Section on Intelligent Information Processing Technology to be Integrated into Society ―

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The IEICE Transactions on Information and Systems announces that it will publish a special section entitled "Special Section on Intelligent Information Processing Technology to be Integrated into Society" in July 2025.

With the widespread use of sensors and mobile devices, as well as advances in artificial intelligence and knowledge processing technologies, it has become possible to discover and utilize human knowledge and wisdom from the information and big data collected from these devices. In such an environment, there are strong needs to develop innovative systems and methodologies that can clarify social issues in daily life, social systems, and education, and lead to creative and collaborative solutions. For this purpose, advanced collaboration and fusion of various sciences such as information science, language science, and knowledge science are indispensable, and at the same time, how to design and construct appropriate models and innovative systems for society, and how to apply them practically with high speed and high precision are required.

In the field of knowledge information and communication, which is premised on the integration of such scientific and technological fields, new domains and technologies such as knowledge science, service science, robotics, artificial intelligence, haptic technology, sensor networks, and virtual reality are continuously being created, and their further integrations and fusions are accelerating. In addition, the amount of available data is increasing dramatically, and the quality of data is changing drastically; thus, there are needs to innovate conventional technologies. Therefore, we are planning a special issue, will be published on July, 2025, on theoretical and technological approaches to solve large-scale and complex problems by integrating multiple disciplines and technologies to further enhance human cooperation and harmony and creativity.

1. Scope

This special section aims at timely dissemination of research in these areas. Possible topics include, but are not limited to:

- Collective Intelligence and Creative Intelligence
- Creativity Support Systems and Decision Support System
- Large-scale Data Processing and Machine Learning
- Civic Tech to solve social issues
- Online Meeting Systems
- Computer Supported Collaborative Works
- Service / Innovation Management Support Systems
- Knowledge Science, Knowledge Engineering and Knowledge Representation
- Knowledge Management / Management of Technology Support Systems
- Robotics, Mechatronics, and Haptics
- Sensor Networks, Intelligent Wireless Systems
- Image Processing, Computer Graphics and Virtual Reality
- Agent Simulation
- Intelligent Control of Infrastructure
- Data Visualization and Interface Design
- Web Intelligence
- Educational Engineering
- Human Language Technology and Natural Language Processing
- Ontology and Semantic Web
- Evaluation of Intelligent ICT Systems
- Artificial Intelligence and Computational Intelligence

2. Submission Instructions:

– A manuscript should be prepared according to the guideline given in "The Information for Authors" (https://www.ieice.org/eng/shiori/mokuji_iss.html). We encourage the authors to use the IEICE Style File (https://www.ieice.org/ftp/index-e.html). The preferred length of the manuscript is 8 pages for a PAPER and 2 pages for a LETTER with the format determined by the IEICE Style File.

– Submit the manuscript through the IEICE Web site (https://review.ieice.org/regist/regist_baseinfo_e.aspx). Choose "**[Special-II] Intelligent Information Processing Technology to be Integrated into Society**" in the menu of "Journal/Section" in the submission page. Do not choose "[Regular-ED] Information and Systems" or other special sections.

– Authors must agree to the "Copyright Transfer, Article Processing Charge Agreement, Notices from the IEICE, and Privacy Policy" via electronic submission. - Submission deadline of the manuscript is April 8, 2024 23:59 (JST).

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* The standard period of 60 days between the notification (of conditional accept) and the second submission can be shortened according as the review schedule.

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