



Selected Papers from the 35th JSAI Annual Meeting

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Published online: 20 April 2022

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For this special issue of *New General Computing*, we have selected two papers that received particularly excellent evaluations from among the oral presentations at the international sessions of the 35th Japanese Society for Artificial Intelligence (JSAI2021) held from June 8 (Tuesday) to June 11 (Friday), 2021.

Those two most outstanding papers are:

“STBM+: Advanced Stochastic Trading Behavior Model for Financial Markets Using Residual Blocks or Transformers” (authors: Masanori Hirano, Kiyoshi Izumi, Hiroki Sakaji), which built a behavioral model of financial traders by using actual order data to predict the future behavior of traders.

“Diagnosing and Treating the Effect of Legal Rule-Based Revision” (authors: Wachara Fungwacharakorn, Kanae Tsushima, Ken Satoh), which examined the aspects of semantic change and the effect of revision through judicial interpretation.

In the international session, 35 papers were presented in the Regular category and 22 papers in the Work-in-Progress category. The contents of the presentations—all of them highly advanced—covered a diverse spectrum, including knowledge engineering, machine learning, multi-agents, the Web, robotics, human computer interactions, logic, natural language processing, and human behavior.

Of these, the papers in the Regular category were evaluated based on the following three steps.

Step 1: Each of the 35 papers was reviewed by two or more reviewers (International Program Committee members and their referees) from Japan or abroad in related fields.

The reviewers were asked to evaluate the papers on a five-point scale based on the following criteria.

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- a) Originality: novelty of the paper.
- b) Significance: impact on science and business.
- c) Quality: excellence and quality of the presentation.

We asked each International Program Committee member to recommend one paper to the New Generation Computing (NGC) Program Committee if it was particularly outstanding.

Step 2: Two papers were recommended as candidates to NGC by two International Program Committee members (acceptance rate: 5.7%). The average review scores of the two top papers were 4.8 and 4.5, respectively. The mean peer-review score of the 35 papers submitted to the Regular category was 3.1, with a standard deviation of 0.9.

The two papers were reviewed by four NGC Guest Editors and NGC Guest Editorial Members, and it was determined that both papers met the criteria to be recommended to NGC.

Step 3: The recommended papers were submitted to NGC and were accepted after peer reviews.

We are delighted to publish the results of this cutting-edge research. We hope you find these papers, chosen in a highly selective process, both enjoyable and enlightening to read.

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