

Call for papers for the special session SS-1

[Session ID]

SS-1

[Session Title]

Synergy among Machine Learning, Computational Optimization, and Human Awareness

[Session Description]

Machine Learning (ML) has been intensively studied to solve problems with performance same as or better than that achieved by humans. The same applies to Computational Optimization (CO). Of course, working instead of humans is one of the most important roles for ML and CO. However, by broadening the horizon to incorporation and assistance for human awareness (HA), new possibilities will emerge. ML and CO are good at modeling complex and dynamic phenomena hidden behind data with various qualities and quantities based on their inductive learning mechanisms. In contrast, humans are good at noticing, understanding, and clarifying phenomena based on their domain knowledge. Hence, it is expected that the incorporation and assistance of ML, CO, and HA lead to novel types of problem solving such as explainable ML and CO for humans, knowledge discovery via human-ML/CO interaction etc. This special session focuses on such synergy among ML, CO, and HA, and it widely calls for methodologies and techniques to realize and utilize the synergy.

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[Submission]

Select the appropriate session in the conference submission system. For latest and additional information, visit the CYBCONF2021 website (<https://wps.itc.kansai-u.ac.jp/cybconf2021/>). If you have any questions, please contact Miho OHSAKI (mohsaki@mail.doshisha.ac.jp).