# Special Issue

# Advances in Artificial Intelligence for Perception Augmentation and Reasoning

### Message from the Guest Editors

The purpose of this Special Issue is to highlight the recent developments in applications of artificial intelligence (AI) in perception enhancement, activity recognition, natural language processing, intelligent reasoning, and so on. Over the past six decades, AI has been tremendously boosted by new algorithm designs, exponentially increased computing power, and an immense volume of calculation materials (data). At a turning point from "unusable" to "usable", the influence of AI on technological innovations is becoming more critical to social welfare. Potential topics in this collection include but are not limited to the following topics:

- Visual question and answer (VQA), visual reasoning;
- Semantic reasoning, semantic representation, knowledge base;
- Characterization inference, natural language reasoning;
- Meta-learning, transfer learning, less sample learning (small sample learning);
- Geospatial artificial intelligence, geospatial AI (GeoAI);
- AI in geostatistics, remote sensing, spatio-temporal simulation;
- AI for geospatial data acquisition, analysis, planning, and prediction;
- Artificial intelligence for augmented perception;

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### Deadline for manuscript submissions

closed (29 July 2022)

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## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## Editor-in-Chief

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