Special Issue

Zero-Shot Learning in Natural Language Processing and Its Applications

Message from the Guest Editors

The growing industrial demand of natural language processing (NLP) and computer vision (CV) has motivated the development of semantic-visual modelling. Zero-shot learning (ZSL) has received increasing attention in the past two decades due to its superiority in coping with novel classes and out-ofdistribution (OOD) scenarios. This Special Issue focuses on how to design new NLP paradigms to enhance the generalization to 1) novel distribution tasks; 2) novel modalities, e.g., visual images; 3) novel representations, e.g., knowledge graphs. Backbone models and representation learning for general NLP tasks are out of the scope of the issue. The purpose of the issue is to thoroughly explore all possible solutions to update existing ZSL paradigms in NLP, CV, and other modalities that involve unlabelled novel classes and tasks. Publications in this Special Issue will contribute to the existing literature on benchmark establishment, paradigm design, model development, and application deployment of NLP in CV and other real-world modalities and issues.

Guest Editors

Dr. Long Yang

Department of Computer Science, Durham University, Durham DH1 3LE, UK

Dr. Noura Al Moubayed

Department of Computer Science, Durham University, Durham DH1 3LE, UK

Deadline for manuscript submissions

closed (15 March 2025)



Electronics

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Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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