Introduction

Welcome to the Tutorials Session of EMNLP 2022

The EMNLP 2022 tutorials session provides an in depth coverage of a variety of topics reflecting recent advances in Natural Language Processing methods and applications, presented by experts from academia and ranging from introductory to cutting-edge.

This year, as has been the tradition over the past few years, the call, submission, reviewing and selection of tutorials were coordinated jointly for multiple conferences: ACL, NAACL, COLING and EMNLP. A review committee consisting of ACL, NAACL, COLING and EMNLP tutorial chairs as well as 23 external reviewers (see Program Committee for the full list), was formed. The committee followed a review process that ensured that each of the 47 submitted tutorial proposals, received 3 reviews. The selection criteria included clarity and preparedness, novelty or timely character of the topic, instructors’ experience, likely audience interest, open access of the tutorial instructional material, and diversity and inclusion.

The six tutorials selected for EMNLP include 2 introductory tutorials and 4 cutting-edge tutorials. The two introductory tutorials address Arabic natural language processing (T2) and causal inference for natural language processing(T4) while the cutting-edge tutorials address meaning representations for natural languages (T1), emergent language-based coordination in deep Multi-Agent Systems (T3), modular and parameter-efficient fine-tuning for NLP models (T5), and non-autoregressive models for fast sequence generation (T6).

We would like to thank the ACL, NAACL, and COLING tutorial chairs and the 23 external reviewers for their effective collaboration and their efforts to ensure a smooth selection process as well as their invaluable assistance in the decision process. We would also like to thank EMNLP’s general chair Noah Smith for his readiness to extend support whenever requested. We are very grateful for tutorial organizers for their valuable contributions.

As has been the case last year, tutorial presentations will be a mixture of online, on-site and hybrid presentations. We hope you all benefit from and enjoy the tutorial program at EMNLP 2022!

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Xipeng Qiu
Organizing Committee

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Yue Zhang, Westlake University, China
Arkaitz Zubiaga, Queen Mary University London, UK
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Wednesday, December 7, 2022

09:00 - 17:30   Day 1

Meaning Representations for Natural Languages: Design, Models and Applications
Jeffrey Flanigan, Ishan Jindal, Yunyao Li, Tim O’Gorman, Martha Palmer and Nianwen Xue

Arabic Natural Language Processing
Nizar Habash

Emergent Language-Based Coordination In Deep Multi-Agent Systems
Marco Baroni, Roberto Dessi and Angeliki Lazaridou
Thursday, December 8, 2022

09:00 - 17:30  Day 2

CausalNLP Tutorial: An Introduction to Causality for Natural Language Processing
Zhijing Jin, Amir Feder and Kun Zhang

Modular and Parameter-Efficient Fine-Tuning for NLP Models
Sebastian Ruder, Jonas Pfeiffer and Ivan Vulić

Meaning Representations for Natural Languages: Design, Models and Applications
Jeffrey Flanigan, Ishan Jindal, Yunyao Li, Tim O’Gorman, Martha Palmer and Nianwen Xue