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Introduction


Undeniably, fair evaluations and comparisons are important to the NLP community for properly tracking progress and suggesting open problems in the field. In recent years, after the deep learning revolution, people are relying more and more on fine-tuning pre-trained language models to achieve downstream tasks, leading to significant growth in the number of published state-of-the-art results. Without appropriate evaluations (including methodologies, datasets, metrics, setups, reports, etc.), such results would be meaningless or even harmful to the community. Last year, the first workshop in the series, Eval4NLP 2020, was the first workshop to take a broad and unifying perspective on the subject matter. For this year, the goal of the second workshop is to continue the tradition by providing a platform for presenting and discussing the latest advances in NLP evaluation methods and resources.

The workshop has attracted lots of attention from the community with 36 research papers being submitted. After careful reviews by the program committee and the workshop organizers, 17 papers (including 14 long papers and 3 short papers) were accepted to present in the workshop. To increase the variety of the program, we additionally welcome 17 papers published recently elsewhere (i.e., 14 papers from the Findings of EMNLP 2021 and 3 papers from other prestigious publication venues in AI) to present in the workshop as well. Overall, our program covers a wide range of topics in NLP evaluation and comparison, including new evaluation metrics for different NLG tasks (e.g., summarization, translation, data-to-text, text-to-SQL) and NLP models (e.g., embeddings, user feedback predictions, maths word problem solvers, coreference resolution); new benchmark datasets for tasks like authorship attribution, multilingual narratives, gender bias, NER, subword segmentation, and open question answering; and critical analyses over existing evaluation benchmarks (e.g., SemEval) and paradigms (e.g., system comparison methods and statistical tests).

Moreover, we organized a shared task on explainable quality estimation. Given a pair of a source sentence and a machine-translated sentence, participants were asked to estimate the sentence-level quality score of the translation and explain the score by providing a continuous word-level score for each input word or token indicating its importance for the prediction. There were seven teams participating in the shared task and six of them submitted papers describing their systems. We, the organizers, also wrote a paper summarizing the competition and the lessons learned. All are included in the proceedings.

We would like to thank all of the authors and the shared task participants for their contributions, the program committee for their thoughtful reviews (especially those who kindly help conduct emergency reviews), the steering committee for their advice and selection of best research papers, the keynote speakers for sharing their vision and outlook, the sponsors (The Artificial Intelligence Journal and Salesforce Research) for their generous support, and all the attendees for their participation. We believe that all of these will contribute to a lively and successful workshop. Looking forward to meeting you all (virtually) at Eval4NLP 2021!

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Yang Gao, Steffen Eger, Wei Zhao, Piyawat Lertvittayakumjorn, Marina Fomicheva
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  Chien-Sheng Wu, Salesforce Research, US
  Dan Roth, University of Pennsylvania, US
  Ehud Reiter, University of Aberdeen, UK
  Sebastian Ruder, Google DeepMind, UK
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