推荐论文

2022年11月15日

1.情感溯因（ECPE）

（1）推荐阅读

ECE任务和数据集提出：

Gui, L., Wu, D., Xu, R., Lu, Q., Zhou, Y., n.d. Event-Driven Emotion Cause Extraction with Corpus Construction 11.

ECPE任务提出：

Xia, R., Ding, Z., 2019. Emotion-Cause Pair Extraction: A New Task to Emotion Analysis in Texts, in: Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics. Presented at the Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics, Association for Computational Linguistics, Florence, Italy, pp. 1003–1012. <https://doi.org/10.18653/v1/P19-1096>

当前SOTA：

Zhou, C., Song, D., Xu, J., Wu, Z., n.d. A Multi-turn Machine Reading Comprehension Framework with Rethink Mechanism for Emotion-Cause Pair Extraction 10.

（2）其他论文

Chen, X., Li, Q., Wang, J., 2020. A Unified Sequence Labeling Model for Emotion Cause Pair Extraction, in: Proceedings of the 28th International Conference on Computational Linguistics. Presented at the Proceedings of the 28th International Conference on Computational Linguistics, International Committee on Computational Linguistics, Barcelona, Spain (Online), pp. 208–218. <https://doi.org/10.18653/v1/2020.coling-main.18>

Chen, Y., Hou, W., Li, S., Wu, C., Zhang, X., 2020. End-to-End Emotion-Cause Pair Extraction with Graph Convolutional Network, in: Proceedings of the 28th International Conference on Computational Linguistics. Presented at the Proceedings of the 28th International Conference on Computational Linguistics, International Committee on Computational Linguistics, Barcelona, Spain (Online), pp. 198–207. <https://doi.org/10.18653/v1/2020.coling-main.17>

Ding, Z., Xia, R., Yu, J., 2020a. ECPE-2D: Emotion-Cause Pair Extraction based on Joint Two-Dimensional Representation, Interaction and Prediction, in: Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics. Presented at the Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics, Association for Computational Linguistics, Online, pp. 3161–3170. <https://doi.org/10.18653/v1/2020.acl-main.288>

Ding, Z., Xia, R., Yu, J., 2020b. End-to-End Emotion-Cause Pair Extraction based on Sliding Window Multi-Label Learning, in: Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP). Presented at the Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP), Association for Computational Linguistics, Online, pp. 3574–3583. <https://doi.org/10.18653/v1/2020.emnlp-main.290>

Fan, C., Yan, H., Du, J., Gui, L., Bing, L., Yang, M., Xu, R., Mao, R., 2019. A Knowledge Regularized Hierarchical Approach for Emotion Cause Analysis, in: Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing and the 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP). Presented at the Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing and the 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP), Association for Computational Linguistics, Hong Kong, China, pp. 5613–5623. <https://doi.org/10.18653/v1/D19-1563>

Fan, C., Yuan, C., Du, J., Gui, L., Yang, M., Xu, R., 2020. Transition-based Directed Graph Construction for Emotion-Cause Pair Extraction, in: Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics. Presented at the Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics, Association for Computational Linguistics, Online, pp. 3707–3717. <https://doi.org/10.18653/v1/2020.acl-main.342>

Liu, J., Chen, Y., Liu, K., Bi, W., Liu, X., 2020. Event Extraction as Machine Reading Comprehension, in: Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP). Presented at the Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP), Association for Computational Linguistics, Online, pp. 1641–1651. <https://doi.org/10.18653/v1/2020.emnlp-main.128>

Tang, H., Ji, D., Zhou, Q., 2020. Joint multi-level attentional model for emotion detection and emotion-cause pair extraction. Neurocomputing 409, 329–340. <https://doi.org/10.1016/j.neucom.2020.03.105>

Wei, P., Zhao, J., Mao, W., 2020. Effective Inter-Clause Modeling for End-to-End Emotion-Cause Pair Extraction, in: Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics. Presented at the Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics, Association for Computational Linguistics, Online, pp. 3171–3181. <https://doi.org/10.18653/v1/2020.acl-main.289>

Wu, S., Chen, F., Wu, F., Huang, Y., Li, X., 2020. A Multi-Task Learning Neural Network for Emotion-Cause Pair Extraction. Santiago de Compostela 8.

Xia, R., Zhang, M., Ding, Z., 2019. RTHN: A RNN-Transformer Hierarchical Network for Emotion Cause Extraction, in: Proceedings of the Twenty-Eighth International Joint Conference on Artificial Intelligence. Presented at the Twenty-Eighth International Joint Conference on Artificial Intelligence {IJCAI-19}, International Joint Conferences on Artificial Intelligence Organization, Macao, China, pp. 5285–5291. <https://doi.org/10.24963/ijcai.2019/734>

Xu, B., Lin, H., Lin, Y., Xu, K., 2021. Two-stage supervised ranking for emotion cause extraction. Knowledge-Based Systems 228, 107225. <https://doi.org/10.1016/j.knosys.2021.107225>

Yan, H., Gui, L., Pergola, G., He, Y., 2021. Position Bias Mitigation: A Knowledge-Aware Graph Model for Emotion Cause Extraction, in: Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (Volume 1: Long Papers). Presented at the Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing (Volume 1: Long Papers), Association for Computational Linguistics, Online, pp. 3364–3375. <https://doi.org/10.18653/v1/2021.acl-long.261>

Yuan, C., Fan, C., Bao, J., Xu, R., 2020. Emotion-Cause Pair Extraction as Sequence Labeling Based on A Novel Tagging Scheme, in: Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP). Presented at the Proceedings of the 2020 Conference on Empirical Methods in Natural Language Processing (EMNLP), Association for Computational Linguistics, Online, pp. 3568–3573. <https://doi.org/10.18653/v1/2020.emnlp-main.289>

Zheng, X., Liu, Z., Zhang, Z., Wang, Z., Wang, J., n.d. UECA-Prompt: Universal Prompt for Emotion Cause Analysis 11.

2.因果推断综述

Feder, A., Keith, K.A., Manzoor, E., Pryzant, R., Sridhar, D., Wood-Doughty, Z., Eisenstein, J., Grimmer, J., Reichart, R., Roberts, M.E., Stewart, B.M., Veitch, V., Yang, D., 2022. Causal Inference in Natural Language Processing: Estimation, Prediction, Interpretation and Beyond.

Xu, J., Zuo, W., Liang, S., Zuo, X., 2020. A Review of Dataset and Labeling Methods for Causality Extraction, in: Proceedings of the 28th International Conference on Computational Linguistics. Presented at the Proceedings of the 28th International Conference on Computational Linguistics, International Committee on Computational Linguistics, Barcelona, Spain (Online), pp. 1519–1531. <https://doi.org/10.18653/v1/2020.coling-main.133>

3.隐式篇章关系

Guo, F., He, R., Dang, J., 2019. Implicit Discourse Relation Recognition via a BiLSTM-CNN Architecture With Dynamic Chunk-Based Max Pooling. IEEE Access 7, 169281–169292. <https://doi.org/10.1109/ACCESS.2019.2954988>

Rutherford, A., Xue, N., 2014. Discovering Implicit Discourse Relations Through Brown Cluster Pair Representation and Coreference Patterns, in: Proceedings of the 14th Conference of the European Chapter of the Association for Computational Linguistics. Presented at the Proceedings of the 14th Conference of the European Chapter of the Association for Computational Linguistics, Association for Computational Linguistics, Gothenburg, Sweden, pp. 645–654. <https://doi.org/10.3115/v1/E14-1068>

She, X., Jian, P., Zhang, P., Huang, H., 2018. Leveraging Hierarchical Deep Semantics to Classify Implicit Discourse Relations via a Mutual Learning Method. ACM Trans. Asian Low-Resour. Lang. Inf. Process. 17, 1–12. <https://doi.org/10.1145/3178456>

Sporleder, C., Lascarides, A., 2008. Using automatically labelled examples to classify rhetorical relations: an assessment. Nat. Lang. Eng. 14. <https://doi.org/10.1017/S1351324906004451>

Wu, C., Shi, X., Chen, Y., Huang, Y., Su, J., 2017. Leveraging bilingually-constrained synthetic data via multi-task neural networks for implicit discourse relation recognition. Neurocomputing 243, 69–79. <https://doi.org/10.1016/j.neucom.2017.02.084>

Yue, X., Fu, L., Wang, X., 2018. Externally Controllable RNN for Implicit Discourse Relation Classification, in: Huang, X., Jiang, J., Zhao, D., Feng, Y., Hong, Y. (Eds.), Natural Language Processing and Chinese Computing, Lecture Notes in Computer Science. Springer International Publishing, Cham, pp. 158–169. <https://doi.org/10.1007/978-3-319-73618-1_14>

Zhang, B., Xiong, D., Su, J., Zhang, M., 2018. Learning better discourse representation for implicit discourse relation recognition via attention networks. Neurocomputing 275, 1241–1249. <https://doi.org/10.1016/j.neucom.2017.09.074>

Zhou, M., Liang, Q., Ma, L., Luo, D., Zhang, P., Wang, B., 2020. Towards Selective Data Enhanced Implicit Discourse Relation Recognition via Reinforcement Learning, in: 2020 International Joint Conference on Neural Networks (IJCNN). Presented at the 2020 International Joint Conference on Neural Networks (IJCNN), IEEE, Glasgow, United Kingdom, pp. 1–8. <https://doi.org/10.1109/IJCNN48605.2020.9207006>

4.Probing

（1）推荐阅读

Kim, N., Patel, R., Poliak, A., Xia, P., Wang, A., McCoy, T., Tenney, I., Ross, A., Linzen, T., Van Durme, B., Bowman, S.R., Pavlick, E., 2019. Probing What Different NLP Tasks Teach Machines about Function Word Comprehension, in: Proceedings of the Eighth Joint Conference on Lexical and Computational Semantics (\*SEM 2019). Presented at the Proceedings of the Eighth Joint Conference on Lexical and Computational Semantics (\*SEM 2019), Association for Computational Linguistics, Minneapolis, Minnesota, pp. 235–249. <https://doi.org/10.18653/v1/S19-1026>

Liu, L.Z., Wang, Y., Kasai, J., Hajishirzi, H., Smith, N.A., 2021. Probing Across Time: What Does RoBERTa Know and When?

Wu, Z., Chen, Y., Kao, B., Liu, Q., 2021. Perturbed Masking: Parameter-free Probing for Analyzing and Interpreting BERT.

（2）其他论文

Alt, C., Gabryszak, A., Hennig, L., 2020. Probing Linguistic Features of Sentence-Level Representations in Relation Extraction, in: Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics. Presented at the Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics, Association for Computational Linguistics, Online, pp. 1534–1545. <https://doi.org/10.18653/v1/2020.acl-main.140>

Chen, Z., Gao, Q., 2022. Probing Linguistic Information For Logical Inference In Pre-trained Language Models.

Conia, S., Navigli, R., 2022. Probing for Predicate Argument Structures in Pretrained Language Models, in: Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers). Presented at the Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers), Association for Computational Linguistics, Dublin, Ireland, pp. 4622–4632. <https://doi.org/10.18653/v1/2022.acl-long.316>

Conneau, A., Kruszewski, G., Lample, G., Barrault, L., Baroni, M., 2018. What you can cram into a single $&!#\* vector: Probing sentence embeddings for linguistic properties, in: Proceedings of the 56th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers). Presented at the Proceedings of the 56th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers), Association for Computational Linguistics, Melbourne, Australia, pp. 2126–2136. <https://doi.org/10.18653/v1/P18-1198>

Hewitt, J., Liang, P., 2019. Designing and Interpreting Probes with Control Tasks, in: Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing and the 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP). Presented at the Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing and the 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP), Association for Computational Linguistics, Hong Kong, China, pp. 2733–2743. <https://doi.org/10.18653/v1/D19-1275>

Klafka, J., Ettinger, A., 2020. Spying on Your Neighbors: Fine-grained Probing of Contextual Embeddings for Information about Surrounding Words, in: Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics. Presented at the Proceedings of the 58th Annual Meeting of the Association for Computational Linguistics, Association for Computational Linguistics, Online, pp. 4801–4811. <https://doi.org/10.18653/v1/2020.acl-main.434>

Marji, Z., Nighojkar, A., Licato, J., 2020. Probing the Natural Language Inference Task with Automated Reasoning Tools.

Pandit, O., Hou, Y., 2021. Probing for Bridging Inference in Transformer Language Models, in: Proceedings of the 2021 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies. Presented at the Proceedings of the 2021 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, Association for Computational Linguistics, Online, pp. 4153–4163. <https://doi.org/10.18653/v1/2021.naacl-main.327>

Pimentel, T., Valvoda, J., Maudslay, R.H., Zmigrod, R., Williams, A., Cotterell, R., 2020. Information-Theoretic Probing for Linguistic Structure.

Voita, E., Titov, I., 2020. Information-Theoretic Probing with Minimum Description Length.

Wallace, E., Wang, Y., Li, S., Singh, S., Gardner, M., 2019. Do NLP Models Know Numbers? Probing Numeracy in Embeddings, in: Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing and the 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP). Presented at the Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing and the 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP), Association for Computational Linguistics, Hong Kong, China, pp. 5306–5314. <https://doi.org/10.18653/v1/D19-1534>