**中 原 工 学 院**

**毕业设计（论文）任务书**

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| **题 目** | 融合注意力机制的多任务文本序列标注模型 | |
| **设**  **计**  **任**  **务** | 1、问题定义、可行性分析。  2、研究分析。  3、总体设计。  4、详细设计及可行性研究。  5、模型构建与实验。 | |
| **时**  **间**  **进**  **度** | 第七学期：理解任务、学习相关知识、查阅资料及外文文献翻译  第八学期： 第 1-2 周：毕业实习，准备开题  第 3-4 周：开题，概要设计  第 4-12 周：模型设计与实现，详细设计  第 9-11 周：中期检查，查漏补缺，撰写论文  第 12 周：修改论文，论文查重，完善模型  第13-14周：评阅论文，验收研究成果  第14-15周：毕业答辩与成绩评定 | |
| **原始资料和主要参考文献** | [1] Ruder, Sebastian, *An overview of multi-task learning in deep neural networks.* arXiv preprint arXiv:1706.05098, 2017.  [2] Zhang, Yue and Clark, Stephen, *A fast decoder for joint word segmentation and POS-tagging using a single discriminative model*. in *Proceedings of the 2010 Conference on Empirical Methods in Natural Language Processing*. 2010. Association for Computational Linguistics.  [3] Shao, Yan, Hardmeier, Christian, Tiedemann, Jörg, Nivre, Joakim, *Character-based joint segmentation and POS tagging for Chinese using bidirectional RNN-CRF.* arXiv preprint arXiv:1704.01314, 2017.  [4] Nguyen, Dat Quoc, Dras, Mark, and Johnson, Mark, *A novel neural network model for joint pos tagging and graph-based dependency parsing.* arXiv preprint arXiv:1705.05952, 2017.  [5] Nguyen, Dat Quoc and Verspoor, Karin, *An improved neural network model for joint POS tagging and dependency parsing.* arXiv preprint arXiv:1807.03955, 2018.  [6] Sanh, Victor, Wolf, Thomas, and Ruder, Sebastian, *A hierarchical multi-task approach for learning embeddings from semantic tasks.* arXiv preprint arXiv:1811.06031, 2018.  [7] Li, Zuchao, He, Shexia, Zhang, Zhuosheng, Zhao, Hai, *Joint learning of pos and dependencies for multilingual universal dependency parsing.* Proceedings of the CoNLL 2018 Shared Task: Multilingual Parsing from Raw Text to Universal Dependencies, 2018: p. 65-73.  [8] Zhang, Meishan, Yu, Nan, and Fu, Guohong, *A Simple and Effective Neural Model for Joint Word Segmentation and POS Tagging.* IEEE/ACM Transactions on Audio, Speech and Language Processing (TASLP), 2018. **26**(9): p. 1528-1538.  [9] Vaswani, Ashish, Shazeer, Noam, Parmar, Niki, et al. *Attention is all you need. in Advances in Neural Information Processing Systems*. 2017. | |

**院长（系主任）签字 指导教师签字**