

YI-TING HUANG

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RESEARCH EXPERIENCE

Department of Teaching, Learning, and Culture, Texas A&M University, Texas. 05/2017–present.

Postdoctoral Fellow, Advisor: Noboru Matsuda

Developing a neural question generation from paragraphs.

National Academy for Educational Research, Taiwan. 09/2016–05/2017.

Assistant Research Fellow

Duties include project leader for national level assessments (Chinese).

Institute of Information Science, Academia Sinica, Taiwan. 08/2015– 09/2016

Postdoctoral Fellow, Advisor: Meng Chang Chen

Developed deep learning techniques to improve question generation.

Robotic Institute, Carnegie Mellon University, Pennsylvania. 04/2014 – 03/2015

Visiting Scholar, Host: Jack Mostow

Worked on the DQGen (Diagnostic Question Generator). My task involves generating multiple-choice cloze questions for diagnostic assessment of a child's comprehension while reading.

EDUCATION

Ph.D., Information Management, National Taiwan University, 2008 – 2015

Advisor: Yeali S. Sun and Meng Chang Chen

Thesis title: Personalized computer-aided question generation for English language learning

M.S., Network Learning Technology, National Central University, 2006 – 2008

Advisor: Jie-Chi Yang

Thesis title: The Study of Developing English Dialogue Companion System on English Learning for Elementary School Students

B.A., Information Management, Tamkang University, 2002 – 2006.

RESEARCH INTERESTS

Natural Language Processing, Question Generation, Adaptive Test, Ability Estimation, Reading Difficulty Estimation, Personalized Learning, Intelligent Tutoring System (ITS).

SKILL

Programming Languages: Python, JAVA, C++

NLP tools: Stanford's Core NLP Suite, NLTK

Machine learning tools: Tensorflow, Scikit-learn

Statistics tools: R, SPSS

Web development: HTML, CSS, JavaScript, PHP,

Database: MySQL

JOURNAL

Mostow, J., Huang, Y. T., Jang, H., Weinstein, A., Valeri, J., & Gates, D. (2017). Developing, Evaluating and Refining an Automatic Generator of Diagnostic Multiple Choice Cloze Questions to Assess Comprehension while Reading. *Journal of Natural Language Engineering*.

Yang, J. C., Huang, Y. T., Tsai, C. C., Chung, C. I., & Wu, Y. C. (2009). An Automatic Multimedia Content Summarization System for Video Recommendation. *Journal of Educational Technology & Society*, 12(1), 49-61.

CONFERENCE

- Huang, Y. T., Yang, T. C., Chen, M. C., Chen, C. M., & Sun, Y. L. (2016). Design of an Online Multimedia Learning System for Improving Students' Perceptions in English Language Learning. *In Proceedings of the 16th IEEE International Conference on Advanced Learning Technologies*.
- Huang, Y. T., & Mostow, J. (2015). Evaluating Human and Automated Generation of Distractors for Diagnostic Multiple-Choice Cloze Questions to Assess Children's Reading Comprehension. *In Proceedings of the 17th International Conference on Artificial Intelligence in Education (AIED 2015)*, 155-164.
- Tseng, Y. M., Huang, Y. T., Chen, M. C., & Sun, Y. L. (2014). Generating Comprehension Questions using Paraphrase. *In Proceedings of the 19th Conference on Technologies and Applications of Artificial Intelligence (TAAI 2014)*, 310-321.
- Huang, Y. T., Tseng, Y. M., Chen, M. C., & Sun, Y. L. (2014). TEDQuiz: Automatic Quiz Generation for TED Talks Video Clips to Assess Listening Comprehension, *In Proceedings of the 14th IEEE International Conference on Advanced Learning Technologies*, 350-354.
- Huang, Y. T., Chen, M. C., & Sun, Y. L. (2012). An Interpretable Statistical Ability Estimation in Web-based Learning Environment. *In Proceedings of the 20th International Conference on Computers in Education*, 230-237. **[Best Student Paper Award Nominee]**
- Huang, Y. T., Chen, M. C., & Sun, Y. L. (2012). Personalized Automatic Quiz Generation Based on Proficiency Level Estimation. *In Proceedings of the 20th International Conference on Computers in Education*, 553-560. **[Best Technical Design Paper Award Nominee]**
- Huang, Y. T., Chang, H. P., Sun, Y. L., & Chen, M. C. (2011). A Robust Estimation Scheme of Reading Difficulty for Second Language Learners. *In Proceedings of the 11th IEEE International Conference on Advanced Learning Technologies*, 58-62.
- Huang, Y. T., Lin, Y. L., Yang, J. C., & Wu, Y. C. (2008). An English Dialogue Companion System for Supporting Conversation Practice. *In Proceedings of the 16th International Conference on Computers in Education*, 43-48.
- Huang, Y. T., Yang, J. C., & Wu, Y. C. (2008). The Development and Evaluation of English Dialogue Companion System. *In Proceedings of the 8th IEEE International Conference on Advanced Learning Technologies*.
- Huang, Y. T., Chung, C. I., Tsai, C. C., Shen, C. H., Wu, Y. C., & Yang, J. C. (2007). A Mobile Video Question Answering System for E-learning. *In Proceedings of the 7th IEEE International Conference on Advanced Learning Technologies*. 74-78.
- Tsai, C. C., Chung, C. I., Huang, Y. T., Shen, C. H., Wu, Y. C., & Yang, J. C. (2007). VCSR: Video Content Summarization for Recommendation. *In Proceedings of the 7th IEEE International Conference on Advanced Learning Technologies*. 862-864.
- Huang, Y. T., Tsai, C. C., Chung, C. I., Shen, C. H., Yang, J. C., & Wu, Y. C. (2007). Multimedia Content Summarization and Application to Video Recommendation. *In Proceedings of Technology Enhanced Learning Conference*. 23-30.

AWARDS & HONORS

- 2016 Academia Sinica Regular Postdoctoral Fellows Scholarship
2015 Scholarship from Professor Ram Kumar Memorial Foundation
2012 Asia-Pacific Society for Computers in Education (APSCE) Merit Scholarship

ACADEMIC SERVICES

Reviewer for International Journals

Interactive Learning Environments, Journal of Information Science and Engineering

Reviewer for Peer-reviewed Conferences

Annual Meeting of the Association for Computational Linguistics, Int. Conf. on Empirical Methods in Natural Language Processing, Int. Conf. on Computational Linguistics, Int. Conf. on Language Resources and Evaluation