NLU

Abhinav Rastogi, Dilek Hakkani-Tur, and Larry Heck. Scalable multi-domain dialogue state tracking. Proceedings of the Automatic Speech Recognition and Understanding Workshop (ASRU), 2017. (1 person, to be presented on February 7 or 14)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/rastogi-etal-asru2017.pdf>

Liliang Ren, Kaige Xie, Lu Chen, and Kai Yu. Towards universal dialogue state tracking. Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP), 2018. (1 person, to be presented on February 7 or 14)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/ren-etal-emnlp2018.pdf>

Ji Young Lee and Franck Dernoncourt. Sequential short-text classification with recurrent and convolutional neural networks. Proceedings of the Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT), 2016. (1 person, to be presented on February 7 or 14)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/lee-dernoncourt-naaclhlt2016.pdf>

Quan Hung Tran, Ingrid Zukerman, and Gholamreza Haffari. A hierarchical neural model for learning sequences of dialogue acts. Proceedings of the Conference of the European Chapter of the Association for Computational Linguistics (EACL), 2017. (1 person, to be presented on February 7 or 14)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/tran-etal-eacl2017.pdf>

NLG

Francois Mairesse and Marilyn Walker. PERSONAGE: Personality generation for dialogue. Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL), 2007. (1 person, to be presented on February 7 or 14)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/mairesse-walker-acl2007.pdf>

Jekaterina Novikova, Ondrej Dusek, Amanda Cercas Curry, and Verena Rieser. Why we need new evaluation metrics for NLG. Proceedings of the Conference on Empirical Methods in Matural Language Processing (EMNLP), 2017. (1 person, to be presented on February 7 or 14)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/novikova-etal-emnlp2017.pdf>

RL & simulated users

Kallirroi Georgila, James Henderson, and Oliver Lemon. Learning user simulations for information state update dialogue systems. Proceedings of Interspeech, 2005. (1 person, to be presented on February 28 or March 6)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/georgila-etal-interspeech2005.pdf>

James Henderson, Oliver Lemon, and Kallirroi Georgila. Hybrid reinforcement/supervised learning of dialogue policies from fixed datasets. Computational Linguistics, 2008. (2 persons, to be presented on February 28 or March 6)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/henderson-etal-compling2008.pdf>

Jason D. Williams and Steve Young. Scaling POMDPs for spoken dialog management. IEEE Transactions on audio, speech, and language processing, 2007. (2 persons, to be presented on February 28 or March 6)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/williams-young-transaudiospeechlang2007.pdf>

Steve Young, Jost Schatzmann, Karl Weilhammer, and Hui Ye. The hidden information state approach to dialog management. Proceedings of the International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2007. (1 person, to be presented on February 28 or March 6)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/young-etal-icassp2007.pdf>

Inigo Casanueva, Pawel Budzianowski, Pei-Hao Su, Stefan Ultes, Lina Rojas-Barahona, Bo-Hsiang Tseng, and Milica Gasic. Feudal reinforcement learning for dialogue management in large domains. Proceedings of the Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT), 2018. (1 person, to be presented on February 28 or March 6)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/casanueva-etal-naaclhlt2018.pdf>

Deep learning

Xiujun Li, Yun-Nung Chen, Lihong Li, Jianfeng Gao, and Asli Celikyilmaz. End-to-end task-completion neural dialogue systems. Proceedings of the International Joint Conference on Natural Language Processing (IJCNLP), 2017. (1 person, to be presented on March 6)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/li-etal-ijcnlp2017.pdf>

Layla El Asri, Jinh He, and Kaheer Suleman. A sequence-to-sequence model for user simulation in spoken dialogue systems. Proceedings of Interspeech, 2016. (1 person, to be presented on March 6)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/elasri-etal-interspeech2016.pdf>

Paul Crook and Alex Marin. Sequence to sequence modeling for user simulation in dialog systems. Proceedings of Interspeech, 2017. (1 person, to be presented on March 6)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/crook-marin-interspeech2017.pdf>

Tiancheng Zhao and Maxine Eskenazi. Towards end-to-end learning for dialog state tracking and management using deep reinforcement learning. Proceedings of the Annual SIGdial Meeting on Discourse and Dialogue (SIGDIAL), 2016. (1 person, to be presented on March 6)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/zhao-eskenazi-sigdial2016.pdf>

Iulian V. Serban, Alessandro Sordoni, Yoshua Bengio, Aaron Courville, and Joelle Pineau. Building end-to-end dialogue systems using generative hierarchical neural network models. Proceedings of the AAAI Conference on Artificial Intelligence, 2016. (1 person, to be presented on March 6)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/serban-etal-aaai2016.pdf>

Antoine Bordes, Y-Lan Boureau, and Jason Weston. Learning end-to-end goal-oriented dialog. International Conference on Learning Representations (ICLR), 2017. (1 person, to be presented on March 6)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/bordes-etal-iclr2017.pdf>

Braden Hancock, Antoine Bordes, Pierre-Emmanuel Mazare, and Jason Weston. Learning from dialogue after deployment: Feed yourself, chatbot! Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL), 2019. (1 person, to be presented on March 6)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/hancock-etal-acl2019.pdf>

Evaluation

Sungjin Lee. Extrinsic evaluation of dialog state tracking and predictive metrics for dialog policy optimization. Proceedings of the Annual SIGdial Meeting on Discourse and Dialogue (SIGDIAL), 2014. (1 person, to be presented on March 13)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/lee-sigdial2014.pdf>

Chia-Wei Liu, Ryan Lowe, Iulian V. Serban, Michael Noseworthy, Laurent Charlin, and Joelle Pineau. How NOT to evaluate your dialogue system: An empirical study of unsupervised evaluation metrics for dialogue response generation. Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP), 2016. (1 person, to be presented on March 13)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/liu-etal-emnlp2016.pdf>

Michel Galley, Chris Brockett, Alessandro Sordoni, Yangfeng Ji, Michael Auli, Chris Quirk, Margaret Mitchell, Jianfeng Gao, and Bill Dolan. deltaBLEU: A discriminative metric for generation tasks with intrinsically diverse targets. Proceedings of the Annual Meeting of the Association for Computational Linguistics and the International Joint Conference on Natural Language Processing (ACL-IJCNLP), 2015. (1 person, to be presented on March 13)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/galley-etal-aclijcnlp2015.pdf>

Incremental, turn-taking

Ethan O. Selfridge and Peter A. Heeman. Importance-driven turn-bidding for spoken dialogue systems. Proceedings of the Annual Meeting of the Association for Computational Linguistics (ACL), 2010. (1 person, to be presented on March 27 or April 3 or April 10 or April 17)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/selfridge-heeman-acl2010.pdf>

Gabriel Skantze. Towards a general, continuous model of turn-taking in spoken dialogue using LSTM recurrent neural networks. Proceedings of the Annual SIGdial Meeting on Discourse and Dialogue (SIGDIAL), 2017. (1 person, to be presented on March 27 or April 3 or April 10 or April 17)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/skantze-sigdial2017.pdf>

David DeVault, Kenji Sagae, and David Traum. Incremental interpretation and prediction of utterance meaning for interactive dialogue. Dialogue and Discourse, 2011. (2 persons, to be presented on March 27 or April 3 or April 10 or April 17)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/devault-etal-dd2011.pdf>

Nigel G. Ward and David DeVault. Challenges in building highly interactive dialogue systems. AI Magazine, 2017. (2 persons, to be presented on March 27 or April 3 or April 10 or April 17)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/ward-devault-aimag2017.pdf>

Education

Vikram Ramanarayanan, Matt Mulholland, and Yao Qian. Scoring interactional aspects of human-machine dialog for language learning and assessment using text features. Proceedings of the Annual SIGdial Meeting on Discourse and Dialogue (SIGDIAL), 2019. (1 person, to be presented on March 27 or April 3 or April 10 or April 17)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/ramanarayanan-etal-sigdial2019.pdf>

Kallirroi Georgila, Mark G. Core, Benjamin D. Nye, Shamya Karumbaiah, Daniel Auerbach, and Maya Ram. Using reinforcement learning to optimize the policies of an intelligent tutoring system for interpersonal skills training. Proceedings of the International Conference on Autonomous Agents and Multiagent Systems (AAMAS), 2019. (1 person, to be presented on March 27 or April 3 or April 10 or April 17)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/georgila-etal-aamas2019.pdf>

Diane Litman, Carolyn P. Rose, Kate Forbes-Riley, Kurt VanLehn, Dumisizwe Bhembe, and Scott Silliman. Spoken versus typed human and computer dialogue tutoring. International Journal of Artificial Intelligence in Education, 2006. (2 persons, to be presented on March 27 or April 3 or April 10 or April 17)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/litman-etal-jaied2006.pdf>

Other

Mike Lewis, Denis Yarats, Yann N. Dauphin, Devi Parikh, and Dhruv Batra. Deal or no deal? End-to-end learning for negotiation dialogues. Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP), 2017. (1 person, to be presented on March 27 or April 3 or April 10 or April 17)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/lewis-etal-emnlp2017.pdf>

Abhishek Das, Satwik Kottur, Khushi Gupta, Avi Singh, Deshraj Yadav, Jose M.F. Moura, Devi Parikh, and Dhruv Batra. Visual dialog. Proceedings of the Conference on Computer Vision and Pattern Recognition (CVPR), 2017. (1 person, to be presented on March 27 or April 3 or April 10 or April 17)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/das-etal-cvpr2017.pdf>

David DeVault, Ron Artstein, Grace Benn, Teresa Dey, Ed Fast, Alesia Gainer, Kallirroi Georgila, Jon Gratch, Arno Hartholt, Margaux Lhommet, Gale Lucas, Stacy Marsella, Fabrizio Morbini, Angela Nazarian, Stefan Scherer, Giota Stratou, Apar Suri, David Traum, Rachel Wood, Yuyu Xu, Albert Rizzo, and Louis-Philippe Morency. SimSensei Kiosk: A virtual human interviewer for healthcare decision support. Proceedings of the International Conference on Autonomous Agents and Multiagent Systems (AAMAS)*,* 2014. (1 person, to be presented on March 27 or April 3 or April 10 or April 17)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/devault-etal-aamas2014.pdf>

Ran Zhao, Alexandros Papangelis, and Justine Cassell. Towards a dyadic computational model of rapport management for human-virtual agent interaction. Proceedings of the International Conference on Intelligent Virtual Agents (IVA), 2014. (1 person, to be presented on March 27 or April 3 or April 10 or April 17)

<http://nld.ict.usc.edu/cs644-spring2020/discussions/zhao-etal-iva2014.pdf>

Backup

David Suendermann, Jackson Liscombe, Krishna Dayanidhi, and Roberto Pieraccini. A handsome set of metrics to measure utterance classification performance in spoken dialogue systems. Proceedings of the Annual SIGdial Meeting on Discourse and Dialogue (SIGDIAL), 2009. (1)

Li Zhou, Jianfeng Gao, Di Li, and Heung-Yeung Shum. The design and implementation of XiaoIce, an empathetic social chatbot. arXiv (2)

Kallirroi Georgila, Maria K. Wolters, and Johanna D. Moore. Learning dialogue strategies from older and younger simulated users. Proceedings of the Annual SIGdial Meeting on Discourse and Dialogue (SIGDIAL), 2010. (1)

Tiancheng Zhao and Maxine Eskenazi. Zero-shot dialog generation with cross-domain latent functions. SIGDIAL 2018.

Jason D. Williams, Antoine Raux, and Matthew Henderson. The Dialog State Tracking Challenge series: A review. Dialogue & Discourse 7(3):4-33, 2016.

Jiwei Li, Will Monroe, Tianlin Shi, Sebastien Jean, Alan Ritter, and Dan Jurafsky. Adversarial learning for neural dialogue generation. Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP), 2017.

James Henderson, Oliver Lemon, and Kallirroi Georgila. Hybrid reinforcement/supervised learning for dialogue policies from COMMUNICATOR data. Proceedings of the IJCAI workshop on Knowledge and Reasoning in Practical Dialogue Systems, 2005.

Steve Young, Milica Gasic, Simon Keizer, Francois Mairesse, Jost Schatzmann, Blaise Thomson, and Kai Yu. The Hidden Information State model: A practical framework for POMDP-based spoken dialogue management. Computer Speech and Language, 2010. (2)

Rasmus Dall, Junichi Yamagishi, and Simon King. Rating naturalness in speech synthesis: The effect of style and expectation. Proceedings of Speech Prosody, 2014.

Eva Szekely, Gustav Eje Henter, Jonas Beskow, and Joakim Gustafson. Spontaneous conversational speech synthesis from found data. Proceedings of Interspeech 2019.

Gale M. Lucas, Jill Boberg, David Traum, Ron Artstein, Jonathan Gratch, Alesia Gainer, Emmanuel Johnson, Anton Leuski, and Mikio Nakano. Culture, errors, and rapport-building dialogue in social agents. Proceedings of the International Conference on Intelligent Virtual Agents (IVA), 2018.

Zhuoran Wang and Oliver Lemon. A simple and generic belief tracking mechanism for the Dialog State Tracking Challenge: On the believability of observed information. Proceedings of the Annual SIGdial Meeting on Discourse and Dialogue (SIGDIAL), 2013. (1)

David DeVault, David Traum, and Ron Artstein. Making grammar-based generation easier to deploy in dialogue systems. Proceedings of the Annual SIGdial Meeting on Discourse and Dialogue (SIGDIAL), 2008.