Victor Prokhorov

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PROFILE

I am a second year PhD student in Natural Language Processing at the University of Cambridge.

EDUCATION

(PhD) Computation, Cognition and Language (2017-2021):

University of Cambridge (Language Technology Lab)

(MPhil) Advanced Computer Science (2016-2017):

University of Cambridge (The Computer Laboratory) - Grade: Distinction

(BEng) Computer Science and Electronics (2013-2016):

University of Bristol - Grade: First Class (Hons)

SKILLS

Programming Languages: Python, (Tensorflow + Keras), LaTeX Languages: English, Russian (Native Speaker)

PUBLICA-TIONS

- Victor Prokhorov, Ehsan Shareghi, Yingzhen Li, Mohammad Taher Pilehvar, Nigel Collier (2019): On the Importance of the Kullback-Leibler Divergence Term in Variational Autoencoders for Text Generation, Accepted in WNGT 2019
- Victor Prokhorov, Mohammad Taher Pilehvar, Nigel Collier (2019): Generating Knowledge Graph Paths from Textual Definitions using Sequence-to-Sequence Models, Accepted in NAACL 2019
- Victor Prokhorov, Mohammad Taher Pilehvar, Dimitri Kartsaklis, Pietro Lio, Nigel Collier (2019): Unseen Word Representation by Aligning Heterogeneous Lexical Semantic Spaces, Accepted in AAAI 2019
- Mohammad Taher Pilehvar, Dimitri Kartsaklis, Victor Prokhorov, Nigel Collier (2018): Card-660: Cambridge Rare Word Dataset - a Reliable Benchmark for Infrequent Word Representation Models, Accepted in EMNLP 2018.
- Rui Fan, Victor Prokhorov, Naim Dahnoun (2016): Faster-Than-Real-Time linear lane detection implementation using SoC DSP TMS320C6678, Accepted in IEEE International Conference on Imaging Systems and Techniques (2016)

TALKS and POSTERS

- NAACL 2019 North American Chapter of the Association for Computational Linguistics (Minneapolis, USA) [poster]
- AAAI 2019 Association for the Advancement for Artificial Intelligence (Honolulu, Hawaii, USA) [poster]
- Google NLP Summit 2019 (Zurich, Switzerland) [poster]

GRANTS

• Student Travel Grant:

Awarded by: 3rd Workshop on Neural Generation and Translation

PROJECTS

- Unseen Word Representations using Vector Space Alignment (MPhil Dissertation): In this work I put forward a technique that exploits the knowledge encoded in lexical resources to enhance the coverage of a pre-trained word embeddings vocabulary for rare and unseen words. The approach adapts graph embedding techniques as well as cross-lingual vector space transformation algorithms in order to merge lexical knowledge encoded in ontologies with that derived from corpus statistics. (Programming language: Python)
- Faster-Than-Real-Time linear lane detection implementation using SoC DSP TMS320C6678 (BEng Dissertation): This work mainly focuses on an optimised implementation of the linear lane detection system based on multiple image pre-processing methods and an efficient Hough transform. The algorithm was implemented on the TMS320C6678 System on Chip Digital Signal Processor. (Programming language: C, OpenMP)
- 2D Platformer on Unity Game Engine (Summer Project): My role was to design an architecture of the game. (Programming language: C#)