MOHAMMAD TAHER PILEHVAR – CURRICULUM VITAE

Assistant Professor
School of Computer Engineering
Iran University of Science and Technology

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Affiliated Lecturer
Section on Theoretical and Applied Linguistics,
Faculty of Modern and Medieval Languages
University of Cambridge

Work and Education

- Research Associate (Nov. 2015 – Nov. 2018)
  Language Technology Lab, University of Cambridge, UK.
  - Worked within the UK's MRC founded project "PheneBank"

- Postdoctoral Scholar (Oct. 2014 – Oct. 2015)
  Department of Computer Science, Sapienza University of Rome, Italy.
  - Worked within the ERC founded project "MultiJEDI"

- PhD in Computer Science (Sep. 2011 – Oct. 2015)
  Department of Computer Science, Sapienza University of Rome, Italy.
  - PhD thesis on lexical semantics (semantic representation of concepts).
  - *Distinction, best PhD thesis in the CS department in 2014-15.*
  - *Awarded for the best paper in the CS department in 2015.*

Research Interests

- Artificial Intelligence
- Machine Learning and Deep Learning
- Information Retrieval
- Natural Language Processing
  - Lexical Semantics
  - Semantic Representation of Word Senses
  - Biomedical NLP
  - Semantic similarity
  - Word Sense Disambiguation
  - Ontology Construction an Expansion
  - Statistical Machine Translation

Honours and Awards

- Two times best paper award nominee; ACL 2013 (Sofia, Bulgaria) and ACL 2017 (Vancouver, Canada).
- Best PhD thesis, with "outstanding" degree, in the Computer Science department of Sapienza University of Rome, 2014-15.
- Recipient of HPC Starting Research Grant 2014 for research.
- Recipient of "Sapienza Best Student Paper Award 2015".

- Awarded as the "best Iranian Bachelor student in India" by Dr. Kamal Kharrazi, Iran's former minister of foreign affairs (2006).

Workshops and Talks

- Co-organizer of EACL 2017 Workshop on Sense, Concept and Entity Representations and their Applications, April 2017, Valencia, Spain.
- Co-organizer of the SemEval-2017 Task on Multilingual and Cross-lingual Semantic Word Similarity, Vancouver, Canada.
- Co-organizer of the SemEval-2016 Task on Semantic Taxonomy Enrichment, San Diego, USA.
- Co-organizer of the SemEval-2014 Task on Cross-Level Semantic Similarity, Dublin, Ireland.
- Co-instructor of tutorial on Semantic Similarity Frontiers: From Concepts to Documents, Lisbon, Portugal, 2015.
- Co-instructor of tutorial on Semantic Representation of Senses and Concepts, Berlin, Germany, 2016.
- Co-instructor of tutorial on Word Vector Space Specialisation, Valencia, Spain, 2017.
- Invited talk: BabelNet and beyond, December 2015, Computer Lab, University of Cambridge.
- Invited talk: Semantic Representation of Word Senses, University of Birmingham, May 2017.
- Invited talk: Computational Semantic Representation, University of California, Los Angeles (UCLA), USA, June 2015.

Selected Publications

Journals:

- J. Camacho-Collados, M. T. Pilehvar: From Word to Sense Embeddings: A Survey on Vector Representations of Meaning, **Journal of Artificial Intelligence Research**, in press, 2018.
- M Gritta, M. T. Pilehvar, Nut Limsopatham, and Nigel Collier: What's missing in Geographical Parsing?, **Language Resources and Evaluation**, 52(2), pp. 1-21, Springer, 2017.
- J. Camacho-Collados, M. T. Pilehvar, R. Navigli: Nasari: Integrating explicit knowledge and corpus statistics for a multilingual representation of concepts and entities, **Artificial Intelligence Journal,** 240, pp. 36-64, Elsevier, 2016.
- D. Jurgens, M. T. Pilehvar, and R. Navigli: Cross Level Semantic Similarity: A Evaluation Framework for Universal Measures of Similarity, **Language Resources and Evaluation**, 50(1), pp. 5-33, Springer, 2016.
- M. T. Pilehvar and R. Navigli: A Large-scale Pseudoword-based Evaluation Framework for State-of-the-Art Word Sense Disambiguation, **Computational Linguistics**, 40(4), pp. 837-881, MIT Press, 2014.
- M. T. Pilehvar and R. Navigli: From senses to words: an all-in-one graph-based semantic similarity measure, **Artificial Intelligence Journal,** 228, pp. 95-128, Elsevier, 2015.

Recent Conference papers:

- V. Prokhorov, M. T. Pilehvar, D. Kartsaklis, P. Lio, and N. Collier: Unseen Word Representation by Aligning Heterogeneous Lexical Semantic Spaces. **AAAI 2019**, Hawaii, USA.

- M.T. Pilehvar, D. Kartsaklis, V. Prokhorov, and N. Collier: Card-660: Cambridge Rare Word Dataset -- a Reliable Benchmark for Infrequent Word Representation Models. **Empirical Methods in Natural Language Processing 2018**, Brussels, Belgium.
- Hoang-Quynh Le, Duy-Cat Can, Sinh T. Vu, Thanh Hai Dang, M. T. Pilehvar and N. Collier: Large-scale Exploration of Neural Relation Classification Architectures, **Empirical Methods in Natural Language Processing 2018**, Brussels, Belgium.
- D. Kartsaklis, M.T. Pilehvar , and N. Collier: Mapping Text to Knowledge Graph Entities by Vector Space Transformation, **Empirical Methods in Natural Language Processing 2018**, Brussels, Belgium.
- M. Gritta, M. T. Pilehvar, and N. Collier: Which Melbourne? Augmenting Geocoding with Maps, **Association for Computational Linguistics 2018**, pp. 1285-1296, Melbourne, Australia, 2018.
- C. Conforti, M. T. Pilehvar, and N. Collier: Modeling the Fake News Challenge as an Asymmetric Stance Detection Task, RDSM 2018, Turin, Italy.
- M. T. Pilehvar, J. Camacho-Collados, N. Collier, and R. Navigli: Towards a Seamless Integration of Word Sensesinto Downstream NLP Applications, **Association for Computational Linguistics 2017**, pp. 1857–1869, Vancouver, Canada, 2017 (ACL 2017 *outstanding paper*).
- M. Gritta, M. T. Pilehvar, N. Limsopatham, and N. Collier: Vancouver Welcomes You! Minimalist Location Metonymy Resolution, **Association for Computational Linguistics 2017**, pp. 1248–1259, Vancouver, Canada, 2017.
- M. T. Pilehvar and N. Collier: Inducing Representations for Rare Words by Leveraging Lexical Resources, **European Chapter for Association for Computational Linguistics 2017**, pp. 388-393, Valencia, Spain.

Referee Services

- Journals reviewing:
  - Elsevier: Artificial Intelligence, Neurocomputing, Journal of Web Semantics, Artificial Intelligence in Medicine, Artificial Intelligence Review.
  - Cambridge University Press: Natural Language Engineering
  - Springer: Language Resources and Evaluation, Artificial Intelligence Review (AIRE)
  - Semantic Web journal (IOS Press)
  - Oxford Journals: Literary and Linguistic Computing
- Conference program committee:
  *SEM-13, FLAIRS-14, LREC-14, EKAW-14, and CLIC-14, COLING-16, EKAW-16, NAACL-16, *SEM-16, ACL-16, LREC-16, AAAI-17, EACL-17, ACL-17, *SEM-17, EMNLP-17, AAAI-18, NAACL-18, ACL-18, ACL-SRW-18, COLING-18, EKAW-18, EMNLP-18, EMNLP-demo-18, BlackboxNLP-18, NAACL-19, AAAI-19.
- Area chair, SemEval-2014, Dublin, Ireland
- Area chair, COLING 2018
- Steering Committee of SemEval-2017, 2018, and 2019
- External reviewer for Vidi application (Netherlands Organisation for Scientific Research)
- External reviewer for Irish Research Council (Advanced Laureate Awards)

References

- Roberto Navigli
  Sapienza University of Rome
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- Nigel Collier
  University of Cambridge
  nhc30@cam.ac.uk

- David Jurgens
  University of Michigan
  jurgens@stanford.edu