# DR. SHAFQAT MUMTAZ VIRK

#### **EDUCATION**

Post-Doctorate November 2014 - onward

Major in Computational Semantics

IRIT Lab, Paul Sabatier University, Toulouse, France

MA in Linguistics: Language and Society

September 2014 - Onward

Malmö University, Malmö, Sweden

Post-Doctorate July 2013-August 2014

(In Progress...)

Major in Computational Semantics

Academia Sinica, Taiwan

PhD in Computing Science April 2009-June 2013

Major in Computational Linguistics University of Gothenburg, Sweden

Licentiate in Applied Information Technology

April 2009 - January 2012

Major in Computational Linguistics University of Gotheburg, Sweden

MS in Applied Information Technology September 2005 - January 2007

Major in Intelligent Systems Design

Chalmers University of Technology, Sweden

M.Sc in Computer Science September 1999 - August 2001

Gomal University, Pakistan

## **PUPLICATIONS**

- 1. Lun-Wei Ku, **Shafqat Mumtaz Virk**, and Yann-Huei Lee, *A Dual-Layer Semantic Role Labeling System*, Proceedings of the 53rd Annual Meeting of the Association for Computational Linguistics (ACL-IJCNLP 2015) System Demonstrations, July 26-31, 2015, Beijing, China. to appear
- 2. Yann-Huei Lee, **Shafqat Mumtaz Virk**, and Lun-Wei Ku, Recognizing Textual Entailment using Lexical, Syntactical, and Semantic Information, The 11<sup>th</sup> NTCIR Conference, December 9-12, 2014, National Center of Sciences, Tokyo, Japan
- 3. Shafqat Mumtaz Virk, K.V.S Prasad and Aarne Ranta, Developing an interlingual translation lexicon using WordNets and Grammatical Framework, The 5<sup>th</sup> Workshop on South and Southeast Asian Natural Language Processing (WSSANLP) co-located with COLING 2014, 23-29 August, 2014 Dublin, Iceland.
- 4. **Shafqat Mumtaz Virk**, Yann-Huei Lee and Lun-Wei Ku, Sinica Semantic Parser for ESWC'14 Concept-Level Semantic Analysis Challenge, 11<sup>th</sup> Extended Semantic Web Conference, 2014 (ESWC'14): The Concept-Level Sentiment Analysis Challenge, Crete, Greece. 25-29 May, 2014 {Got third position }
- 5. PhD. Thesis: Computational Linguistics Resources for Indo-Iranian Languages, ISBN 978-91-628-8706-3, University of Gothenburg, Sweden

- Olga Caprotti, Aarne Ranta, Krasimir Angelov, Ramona Enache, John Camilleri, Dana Danne lls, Gre goire De trez, Thomas Hallgren, K.V.S. Prasad, and Shafqat Virk, High-Quality Translation: MOLTO Tools and Applications, Pages 15-16 Proceeding of The Fourth Swedish Language Technology Conference Lund, October 24-26, 2012
- 7. K.V.S. Prasad and **Shafqat Mumtaz Virk**, Computational evidence that Hindi and Urdu share a grammar but not the lexicon, 3rd Workshop on South and Southeast Asian Natural Language Processing (WSSANLP) collocated with COLING 12, India.
- 8. **Shafqat Mumtaz Virk** and Elnaz Abolahrar, An Open Source Persian Computational Grammar Proceedings of the Eight International Conference on Language Resources and Evaluation (LREC'12) 23-25 May 2012, Istanbul, Turkey
- 9. **Shafqat Mumtaz Virk**, Muhammad Humayoun, Aarne Ranta, *An Open Source Punjabi Resource Grammar*, Proceedings of the Recent Advances in Natural Language Processing (RANLP), 12-14 September 2011, Hissar Bulgaria.
- 10. **Shafqat Mumtaz Virk**, Muhammad Humayoun, Aarne Ranta, An Open Source Urdu Resource Grammar, Proceedings of the 8th Workshop on Asian Language Resources, pages 153160, Beijing, China, 21-22 August 2010. (c) 2010 Asian Federation for Natural Language Processing
- 11. Shafqat Mumtaz virk, Muhammad, A., Martinez-Enriquez, A.M., Fault Prediction Using Artificial Neural Network and Fuzzy Logic, 7th Mexican International Conference on Artificial Intelligence (MICAI 2008), p.p. 149-154 ISBN: 978-0-7695-3441-1, October 27-31,2008 Mexico.
- 12. **Shafqat Mumtaz virk**, Muhammad, A., Martinez Enriquez A.M., Escalada I.G., *Breakdown Prediction of Different Components of Robotics*, International Symposium on Intelligent Information Technology Applications (IITA 2008), vol.3 p.p. 565-569, ISBN: 978-0-7695-3497-8, 21-22 December 2008, Shanghai China.
- 13. Licentiate Thesis: Computational Grammar Resources for Indo-Iranian Languages, University of Gothenburg, Sweden, ISSN 1651-4769;9
- 14. M.Sc Thesis: Vehicle Breakdown Prediction System, VOLVO IT, Sweden

## SYSTEMS, TOOLS, AND RESOURCES

Sinica Semantic Role Labeling (SRL) System (Chinese)

http://doraemon.iis.sinica.edu.tw/srl-webapp/

Sinica Semantic Role Labeling (SRL) System (English)

 $http://doraemon.iis.sinica.edu.tw/srl-concept/srl\_english.html$ 

Sinica Concept Extraction Tool

http://doraemon.iis.sinica.edu.tw/srl-concept/

Resource Grammars of Hindi, Urdu, Punjabi, Sindhi, Persian, and Nepali http://www.grammaticalframework.org/

#### TECHNICAL STRENGTHS

Computer Languages Python, Haskell, C/C++, PHP, HTML, Shell Scripting, JAVA

Tools Grammatical Framework (http://www.grammaticalframework.org/), NLTK

**Databases** MySQL

## TEACHING EXPERIENCE

Department of Computer Science & Engineering, University of Engineering and Technology, Lahore Pakistan

Assistant Professor

## Department of Computer Science, GIFT University, Gujranwala Pakistan

Assistant Professor February 2007 - July 2007

Department of Computer Science, Punjab Group of Colleges, Gujranwala Pakistan

Lecturer September 2001 - January 2005

Department of Computer Science, Asian College of Commerce and Computer Science, Gujranwala Pakistan

Lecturer August 2000 - September 2001

#### DEVELOPMENT EXPERIENCE

Mascom Software House, Gujranwala Pakistan

Developer October 2003 - October 2004

ADMINISTRATIVE EXPERIENCE

Head of the Computer Science Department

Punjab Groupe of Colleges January 2003 - January 2005

Controller of Examination

Punjab Groupe of Colleges September 2003 - January 2005

Member of Course Quality Assurance Committee

University of Engineering and Technology January 2008 - March 2009

#### REFERENCES

#### Prof. Aarne Ranta

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#### Prof. K.V.S. Prasad

Department of Computer Science and Engineering

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