WALID S. SABA

LIST OF PUBLICATIONS
February 17, 2011

SHORT BIO

Currently the Chief Information Officer of PRAGMATECH, I received my PhD in Computer Science from Carleton University in 1999. I spent over 18 years in industry working at such places as the American Institutes for Research, AT&T Bell Labs, MetLife, Nortel Networks, IBM and Cognos.

I also taught Computer Science at the University of Windsor, the New Jersey Institute of Technology (NJIT), the American University of Beirut, and the American University of Technology. My research interests are in computational semantics, ontology and intelligent agents. I have over 30 publications including an award winning paper that was presented at the 31st Annual German Conference on Artificial Intelligence (KI-2008).

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PUBLICATION SUMMARY

PAPERS IN REFEREED JOURNALS	6
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PAPERS IN INTERNATIONAL CONFERENCE PROCEEDINGS	18
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EXTENDED ABSTRACTS, POSTERS AND MAGAZINE ARTICLES	7
TOTAL	**35**

Papers that Appeared in Refereed Journals

1. Saba, W. (2009), Polymorphism as a model for ambiguity in natural language, *KI – the German Journal of Artificial Intelligence,* vol. **2/2009**, pp. 18-23.
2. Saba, W. (2009), Commonsense Knowledge, Ontology and Ordinary Language, *International Journal of Reasoning-based Intelligent Systems* (*IJRIS*), vol. **99**, pp. 999-999
3. 4. Saba, W. (2007), Language, Logic & Ontology: Uncovering the Structure of Commonsense Knowledge, *International Journal of Human-Computer Studies*, **65** (7), pp. 610-623.
4. 5. Saba, W. (2006), On Types, Intension and Compositionality, *Journal of Research in Computing Science*, vol. **18**, pp. 93-102, ISSN 1665-9899.
5. 6. Saba, W. and Corriveau, J.-P. (2001), Plausible Reasoning and the Resolution of Quantifier Scope Ambiguities, *Studia Logica – International Journal of Symbolic Logic*, vol. **67**, pp. 271-289.
6. 7. Frost, R. A. and Saba, W. (1990), A Database Interface Based on Montague's Approach to the Interpretation of Natural Language, *International Journal of Man-Machine Studies*, vol. **33**, pp. 149-176.

Papers that Appeared as Book Chapters

1. Saba, W. (2006), The Structure of Commonsense Knowledge, in Paolo Valore (Ed), *Topics in General and Formal Ontology*, pp. 221-243, Polimetrica, ISBN 88-7699-028-3.
2. Saba, W. and Sathi, P. (2001), Agent Negotiation in a Virtual Marketplace, In N. Zhong, J. Liu, S. Ohsuga and J. Bradshaw (Eds.), *Intelligent Agent Technology – Research & Development*, pp. 444-453, World Scientific, ISBN 978-981-02-4706-5.

Papers that Appeared in International Conference Proceedings

1. Saba, W. (2008), Concerning Olga, the Beautiful Little Street Dancer: Adjectives as Higher-Order Polymorphic Functions, In A. Dengel, et. al. (Eds.), *Advances in Artificial Intelligence: Proc. of the 31st Annual German Conf. on Artificial Intelligence (KI-2008)*, LNAI Vol. 5243, Springer-Verlag.
2. Saba, W. (2007), Compositional Semantics Grounded in Commonsense Metaphysics, In *Proceedings of the 13th Portuguese Conference on Artificial Intelligence (EPIA-2007)*.
3. Saba, W. (2006), Ontology, Types and Semantics, In Bernadette Sharp (Ed.), *Proceedings of 3rd International Workshop on Natural Language Understanding and Cognitive Science* (NLUCS), INSTICC Press, ISBN 972-8865-50-3.
4. Saba, W. (2002), Mental States of Autonomous Agents in Cooperative and Competitive Environments, In Hendtlass, T. and Ali, M. (Eds.), *Developments in Applied Artificial Intelligence (15th Int. Conf. on Industrial & Engineering Appl. of Artificial Intelligence & Expert Systems - IEA/AIE- 2002)*, LNAI Vol. 2358, pp. 373-382, Springer.
5. Saba, W. (2001), Language and Commonsense Knowledge, In Brooks, M., Corbett, D., Stumptner, M., (Eds.), *AI 2001: Advances in Artificial Intelligence (Proc. Australian Joint Conference on AI), LNAI* Vol. 2256, pp. 426-437, Springer-Verlag.

6. Saba, W. (2001), Towards Linguistically-Competent Intelligent Information Agents, *Proc. of the 2nd Int. Conf. on Advances in Infrastructure for Electronic Business, Science, & Education on the Internet*, (SSGRR-2001), L'Aquila/Rome, Italy, pp. 138-147, ISBN 88-85280-61-7.

7. Saba, W. (2001), Ontology of Commonsense Knowledge, In G. Stumme, A. Maedche, and S. Staab (Eds.), *Proc. of ONTO-2001 Workshop on Ontologies (Held at the Joint 24th German/9th Austrian Conf. on Artificial Intelligence*, Vienna, Austria), pp. 66-80.

8. Saba, W. (2001), Modeling Mental States in Agent Negotiation, In *Working Notes of the 2001 AAAI Fall Symposium on Negotiation Methods for Autonomous Cooperative Systems*, November 2001, Falmouth, MA, pp. 142-148, AAAI Press.

9. Saba, W. (2000), Resolution of Quantifier Scope Ambiguities, In J. Griffith & C. O'Riordan (eds.), In *11th Irish Conf. on Artificial Intelligence & Cognitive Science (AICS*-2000), Galway, Ireland. pp. ???-???, World Scientific.

10. Saba, W. S. and Corriveau, J.-P. (1999), *Plausible Reasoning in NLP without Massive Amount of Background Knowledge*, In Mary-Anne Williams (Ed.), Proc. 3rd Australian Workshop on Commonsense Reasoning, Australia, pp. 144-159.

11. Saba, W. S. and Corriveau, J.-P. (1997), A Pragmatic Treatment of Quantification in Natural Language, In *Proceedings of the 14th National Conference of the American Assoc. for Artificial Intelligence (AAAI*-97), RI, USA. pp. 610-615. AAAI Press.

12. Saba, W. S. (1995), Towards a Cognitively Plausible Model for Quantification, *Proceedings of 33rd Annual Meeting of the Assoc. for Comp. Linguistics (ACL*-95), Cambridge, pp. 223-225.

13. Saba, W. S. and Corriveau, J.-P. (1995), Commonsense Reasoning and Quantification in Natural Language, In *Proc. of the 8th National Conference on Artificial Intelligence and Expert Systems*, Ciudad Guayana, Venezuela.

14. Saba, W. S. and Corriveau, J.-P. (1995), Quantification and Cognitive Constraints in Natural Language Understanding, In J. Wainer and A. Carvalho (eds.), *Advances in Artificial Intelligence*, *LNAI* Vol. 991, pp. 331-342, Springer.

15. Saba, W. S. and Corriveau, J.-P. (1995), Context, Quantification and Cognitive Plausibility, *Proceedings of the IJCAI-95 Workshop on Context in Natural Language*, Montreal, pp. 121-128.

16. Mishra, A., Saba, W. S., Singhal, A., Crawford, J., Dvorak, D., Litman, D., & Patel- Schnieder, P. (1995), A Model-Based Approach to Network Monitoring, *Proc of the 1995 AT&T Workshop on Network Management*, Homedel, NJ. USA.

17. Frost, R. A. and Saba, W. S. (1991), Executable Attribute Grammars & Knowledge Base Systems, *Proc. 4th UNB Artificial Intelligence Symposium*, New Brunswick, pp. 471-482.

18. Frost, R. A. and Saba, W. S. (1990), Towards a Calculus of Lazy Interpreters, In *Proc. of the 3rd Int. Symposium on Lucid and Intensional Programming (ISLIP*-90), Kingston, Canada, pp. 1-14.

BOOK REVIEWS

1. Saba, W. (2001), Book Review of "*The Logic of Knowledge Bases*", MIT Press, by Hector Levesque and Gerhard Lakemeyer, ACM Intelligence, 12(4), pp. 42-43

2. Saba, W. (1995), Book Review of "*The Phenomenon of Commonsense Reasoning*" by Dimitrios Thanassa, ACM SIGART Bulletin, 6(4), pp. 21-22.

EXTENDED ABSTRACTS, POSTERS AND MAGAZINE ARTICLES

1. Saba, W. (2007), Semantics with Ontological Content (extended abstract), In *North American Computers & Philosophy Conference* (NA-CAP 2007), July 2007.
2. Saba, W. S. (2005), Ontology and Language: Towards a Strongly-Typed Meaning Algebra, Presented at the *16th Meeting of Computational Linguistics in the Netherlands* (*CLIN*-2005), held by the Institute for Language, Logic & Computation (ILLC) of the University of Amsterdam.
3. Saba, W. S. (2004), DALIA: Towards Distributed, Artificial and Linguistically Competent Intelligent Agents, In *Proc. Of the 17th European Conference on Combinatorial Optimization* (ECCO XVII).
4. Saba, W. S. (2002), On the Relationship between Word Meaning and World Knowledge (Extended Abstract), *Proc. of 3rd Int. Conf. on the Mental Lexicon*, Alberta, Canada.
5. Saba, W. S. (1995), An Extensible Class Library for an Object-Oriented Lexicon, *Workshop on Linguistic Databases, Centre for Language & Cognition and the Centre for Behavioral and Cognitive Neurosciences*, Groningen University, the Netherlands.
6. Saba, W. S. (2001), In Response to Hitchcock, D. et al. 'A Framework for Deliberation Dialogues', In H. V. Hansen, C. W. Tindale, J. A. Blair & R. H. Johnson (Eds.): *Argumentation & its Applications, 4th Biennial Conf. of the Ontario Society for the Study of Argumentation*, ISBN 0-9683461-2-X.
7. Saba, W. S. and Corriveau, J.-P. (1997), Quantification and Commonsense Reasoning, *Proc. of the 14th National Conf. of the American Association for Artificial Intelligence* (AAAI-97), RI, USA, pp. 844, AAAI Press. (Student Poster).
8. Saba, W. S. (1995), Cognitive Plausibility and Quantification, *Canadian Artificial Intelligence Magazine*, Publication of the Canadian Society for the Computational Studies of Intelligence (CSCSI), Vol 38.
9. Saba, W. S. (1998), Cognitive Quantification, appeared in the *Carleton Computer Science Journal*, No 2.