

HALIT ERDOGAN

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INTERESTS

Machine Learning, Search, Optimization, Knowledge Representation, Big Data.

EDUCATION

- 9/2011 - 12/2012* MS in Computer Sciences, University of Wisconsin, Madison / USA. **GPA: 3.91 / 4.00.**
- 9/2004 - 6/2009 BS+MS in Computer Science and Engineering, Sabanci University, Istanbul / Turkey. **GPA: 3.73 / 4.00.**
- 1/2008 - 6/2008 Exchange Student in Computer Science, Uppsala University, Uppsala / Sweden.
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WORK EXPERIENCE

- 2012 SUMMER Software Development Engineer Intern, *Locker Team* (Amazon.com Inc., Seattle)
- 2011 FALL - 2012 SPRING Teaching Assistant (University of Wisconsin): *Artificial Intelligence*
- 2009 FALL - 2011 SPRING Research Assistant (Sabanci University)
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PUBLICATIONS

15. H. Erdogan and M. S. Apaydin. **Incorporating Amino Acid Typing Into Nuclear Magnetic Resonance Protein Structure-Based Assignments.** *Journal of Proteomics & Bioinformatics (Journal)*, 2012.
14. E. Erdem and H. Erdogan and U. Oztok. **BIOQUERY-ASP: Querying Biomedical Ontologies using Answer Set Programming.** *In Proc. of the 5th International Symposium on Rules: Research Based and Industry Focused Challenge*, 2011.
13. T. Eiter, E. Erdem, H. Erdogan, and M. Fink. **Finding Similar or Diverse Solutions in Answer Set Programming.** *Theory and Practice of Logic Programming (Journal)*, Cambridge University Press, 2011.
12. D. Cakmak, E. Erdem, and H. Erdogan. **Computing Weighted Solutions in ASP: Representation-Based Method vs. Search-Based Method.** *Annals of Mathematics and Artificial Intelligence (Journal)*, Springer Press, 2011.
11. E. Erdem, Y. Erdem, H. Erdogan, and U. Oztok. **Finding Answers and Generating Explanations for Complex Biomedical Queries.** *In Proc. of the 25th AAAI Conference on Artificial Intelligence*, AAAI Press, 2011.
10. H. Erdogan, and M. S. Apaydin **Incorporating HADAMAC experiment into NVR for NMR Structure-Based Assignments.** *In Proc. of the 6th International Symposium on Health Informatics and Bioinformatics*, 2011.
9. H. Erdogan, U. Oztok, Y. Erdem, and E. Erdem. **Querying Biomedical Ontologies in Natural Language using Answer Set Programming.** *In Proc. of the Semantic Web Applications and Tools for Life Sciences*, 2010.
8. D. Cakmak, E. Erdem, and H. Erdogan. **Computing Weighted Solutions in ASP: Representation-Based Method vs. Search-Based Method.** *In Proc. of the 17th International Workshop on Experimental Evaluation of Algorithms for Solving Problems with Combinatorial Explosion*, 2010.

7. H. Erdogan, O. Bodenreider, and E. Erdem. **Finding Semantic Inconsistencies in UMLS using Answer Set Programming.** *In Proc. of the 24th AAAI Conference on Artificial Intelligence*, AAAI Press, 2010.
 6. H. Erdogan. **Quantifying Solutions in Answer Set Programming.** *In Proc. of the 1st Computer Science Workshop*, 2010.
 5. H. Erdogan, and M. S. Apaydin. **Using Amino Acid Typing to Improve the Accuracy of NMR Structure Based Assignments.** *In Proc. of the 5th International Symposium on Health Informatics and Bioinformatics*, IEEE Xplore, 2010.
 4. H. Erdogan, E. Erdem, and O. Bodenreider. **Exploiting UMLS Semantics for Checking Semantic Consistency among UMLS concepts.** *In Proc. of the 13th International Congress on Medical Informatics*, 2010.
 3. M. Celik, H. Erdogan, F. Tahaoglu, T. Uras, and E. Erdem. **Comparing ASP and CP on Four Grid Puzzles.** *In Proc. of the 16th International Workshop on Experimental Evaluation of Algorithms for Solving Problems with Combinatorial Explosion*, 2009.
 2. D. Cakmak, E. Erdem, and H. Erdogan. **Computing Weighted Solutions in Answer Set Programming.** *In Proc. of the 10th International Conference on Logic Programming and Nonmonotonic Reasoning*, Springer Press, 2009.
 1. T. Eiter, E. Erdem, H. Erdogan, and M. Fink. **Finding Similar or Diverse Solutions in Answer Set Programming.** *In Proc. of the 25th International Conference on Logic Programming*, Springer Press, 2009.
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SKILLS

Software Engineering: Reusable Software Design and Implementation (Advanced), Object-Oriented Programming (Advanced), Program Optimization (Advanced).

Imperative Programming Languages: Java (Advanced), C++ (Advanced), Python (Beginner), PHP (Intermediate), JavaScript (Beginner).

Declarative Programming Languages: Integer Programming (Advanced), Constraint Programming (Advanced), Answer Set Programming (Advanced).

Other: SQL (Advanced), UML (Intermediate), HTML (Intermediate).

CONFERENCES AND SUMMER SCHOOLS ATTENDED

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| APRIL 2011 | Oberseminar at Spaleto / Italy (presented a paper) |
| APRIL 2010 | International Symposium on Health Informatics and Bioinformatics (HIBIT'10) at Antalya / Turkey (presented a paper). |
| APRIL 2010 | Oberseminar at Istanbul / Turkey (presented a paper) |
| FEBRUARY 2010 | Computer Science Workshop (CSW'10) at Istanbul / Turkey (presented a paper and a poster). |
| DECEMBER 2009 | International Scientific Conferences on Advances in Artificial Intelligence (AI*IA'09) at Reggio Emilia / Italy (presented a paper). |
| SEPTEMBER 2009 | International Conference on Automated Planning and Scheduling (ICAPS'09) Summer School at Thessaloniki / Greece. |
| JULY 2009 | International Joint Conference on Artificial Intelligence (IJCAI'09) at Pasadena, CA / USA. |
| JULY 2009 | International Conference on Logic Programming (ICLP'09) at Pasadena, CA / USA (presented a paper). |

DECEMBER 2008

International Conference on Logic Programming
(ICLP'08) at Udine / Italy.

SEPTEMBER 2008

Reasoning Web / Semantic Web Summer School at Venice / Italy.

GRADUATE LEVEL COURSES TAKEN

University of Wisconsin-Madison

Machine Learning.
Advanced Machine Learning.
Advanced Natural Language Processing.
Distributed Systems.
Database Management Systems.

Sabanci University

Information Retrieval.
Advanced Artificial Intelligence.
Advanced Data Structures and Algorithms.
Knowledge Representation and Reasoning.
Graph Theory and Network Flows.
Software Engineering.
Cognitive Robotics.
Advanced Bioinformatics.