

Iris K. Howley

Human-Computer Interaction Institute
Carnegie Mellon University
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EDUCATION

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| Carnegie Mellon University Ph.D. in Human-Computer Interaction | Anticipated Graduation: June 2013 Primary Adviser: Prof. Carolyn Rosé |
| Drexel University Bachelor of Science in Computer Science | June 2008 Minor in Arabic Language |
| Middle East Technical University Ankara, Turkey | September 2005 - January 2006 |

PUBLICATIONS

Howley, I. K., Rea, H.J., Ritchie, J.M., & Corney, J.R. Automating Design Rationale Capture. Presented at *Opportunities for Undergraduate Research in Computer Science*. Pittsburgh, PA USA. October 5 - 7, 2007.

Rea, H.J., Howley, I.K., Corney, J.R., Ritchie, J.M., Sung, R., & Salamon, C. (2007). CBBC BAMZOOKi as a Tool for Engineering Design Research. *Learning with Games 2007 Conference*. Valbonne, France. September 24 - 25, 2007.

Grauer, M.J., Howley, I.K., Kopena, J.B., & Regli, W.C. (2007). Towards a Format Registry for Engineering Data. *ASME International Design Engineering Technical Conference 2007*. Las Vegas, NV USA. September 4 - 7, 2007.

Kopena, J.B., Sultanik, E., Naik, G., Howley, I.K., Peysakhov, M., Cicerello, V.A., Kam, M., & Regli, W.C. (2005). Service-Based Computing on Manets: Enabling Dynamic Interoperability of First Responders. In *IEEE Intelligent Systems*, 20(5),17-25.

WORK EXPERIENCE

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|---|---|
| Ph.D. Candidate <i>Carnegie Mellon University, HCII</i> <ul style="list-style-type: none">Examined the effect of motivation orientations in group learning exercises | September 2008 - Present Pittsburgh, PA |
| Undergraduate Research Assistant <i>Heriot Watt University, Manufacturing Engineering Department</i> <ul style="list-style-type: none">Developed software to parse and organize large quantities of automatically generated log filesPrototyped a data visualization program, displaying information as directed graphsContributed current knowledge of computer tools to an interdisciplinary team | June 2007 - September 2007 Edinburgh, UK |
| Undergraduate Research Assistant <i>Drexel University, Geometric Intelligent Computing Lab</i> <ul style="list-style-type: none">Designed and implemented an RDF taxonomy for a format registry of CAD formatsAuthored and maintained a wiki featuring topics from the Semantic Web | August 2006 - December 2006 Philadelphia, PA |
| Summer Undergraduate Research Fellow <i>National Institute of Standards and Technology</i> <ul style="list-style-type: none">Expanded upon a large OWL ontology classifying Urban Search and Rescue robotsCreated an engine using JESS to reason over parameters of an ontologySuccessfully implemented proof of concept system | May 2006 - August 2006 Gaithersburg, MD |
| Undergraduate Research Assistant <i>Drexel University, Secure Wireless Agent Testbed</i> <ul style="list-style-type: none">Performed extensive work with Semantic Web services on a ManetTested and developed various software components of a systemIntegrated existing software with a larger, external projectGained practical experience writing for a technical conference | June 2004 - May 2006 Camden, NJ |

AWARDS

- Program in Interdisciplinary Education Research Fellow, 2008
- National Science Foundation Graduate Research Fellowship Honorable Mention, 2008
- CRA Outstanding Undergraduate Finalist, 2008
- Drexel University College of Engineering Undergraduate Research Award, 2008
- Harry E. Muchnic Scholarship from Drexel College of Engineering, 2006
- Students Tackling Advanced Research Program (Drexel University), 2004
- Girl Scout Gold Award, 2002

SERVICE

- Creative Technology Nights Volunteer, 2008 - Present
- Founding officer of Drexel's Women in Computing Society and Member, 2004 - 2008