

Jacob Ratkiewicz

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Biographical Sketch

Jacob Ratkiewicz is a PhD student in the Indiana University School of Informatics, working with Professor Filippo Menczer. He received a B.S. in Computer Science with highest distinction from Indiana University at South Bend in 2003, and a M.S. from Indiana University at Bloomington in 2005. He expects to receive his doctoral degree by May 2008. His current research interests include the topology of the Web, information retrieval in structured and unstructured text, and issues in security and privacy, especially related to malware, click-fraud, and phishing. Jacob was born on February 13th, 1983.

Education

M.A.	Computer Science	Indiana University	2005
B.S.	Computer Science	Indiana University at South Bend	2003

Work Experience

Consultant, RavenWhite Inc. Responsibilities include software and technology development.	2006 - present
Computer Science Department, Indiana University. Associate Instructor; responsibilities have included several graduate and undergraduate courses, in various combinations of lecturing, grading, and support roles.	2003 - present.

Current Projects

DomRank: With Filippo Menczer, developing a text retrieval method based on the technique of decomposing a web page into its Document-Object Model and then using graph-theoretic ranking metrics (such as PageRank) to rank the resulting nodes.

Click Fraud: With Markus Jakobsson and other graduate students, researching novel methods for click fraud, and countermeasures against them. Experimentally measuring success rates of various click fraud strategies.

Projects, continued:

Large Graph Library: With Filippo Menczer, translating the Webgraph large graph library (<http://http://webgraph.dsi.unimi.it/>) from Java to C++ in order to extend its capabilities to larger graphs. This work is in part motivated by the above project.

Web Temporal Topology: With Filippo Menczer and Santo Fortunato, measuring changes in web topology over time using data from the Internet Archive.

Publications

Refereed Proceedings

- M. Jakobsson, M. Gandhi, and J. Ratkiewicz, “Badvertisements: Stealthy Click Fraud with Unwitting Accessories.” APWG 2006 eCrime Researcher’s Summit.
- M. Jakobsson, J. Ratkiewicz, “Designing Ethical Phishing Experiments: A Study of (ROT13) rOnl Query Features,” WWW ’06.
- D. Vrajitoru, J. Ratkiewicz, “Evolutionary Sentence Combination for Chatterbots.” The IASTED International Conference on Artificial Intelligence and Applications (AIA 2004).

Books / Chapters

- M. Jakobsson, F. Menczer, and J. Ratkiewicz, “Click Fraud and Countermeasures”, Morgan and Claypool 2007 (in preparation).
- J. Ratkiewicz, “Content Injection Tutorial.” in “Phishing and Countermeasures”, M. Jakobsson, S. Myers (eds.), Wiley, 2006.
- J. Ratkiewicz, “Attacking eBay Users with Queries.” in “Phishing and Countermeasures”, M. Jakobsson, S. Myers (eds.), Wiley, 2006.

Awards and Honors

- Best Speaker, Communications Fraud Control Alliance 21st Annual Meeting and Conference, St. Louis, MO (June 27-29, 2006).
- ACM Intercollegiate Programming Contest 2003 - Team placed 20/113 nationally, 2nd regionally (IUSB Titaniums).
- Excellence Award in Computer Science - IU South Bend
- Graduation with Highest Distinction - IU South Bend (B.S.)

Professional Activities

- Computer Science Department Graduate Student Association President - 2005
- Computer Science Department Graduate Student Association Social Chair - 2004
- Computer Science Department Graduate Student Association Secretary - 2003
- ACM Student Chapter President - 2001, 2002

Citizenship

United States of America

References

Available upon request.