

CV

Radu Dragusin



Profile

Birth date: 09.05.1987
Nationality: Romanian
Address: Strandvejen 6, 2100 Copenhagen Ø, Denmark
Phone: 52752252
E-mail: dragusin@diku.dk
Alternative e-mail: radu@dragusin.ro

Natural Languages

English (fluent), Romanian (native), Danish (basic), Italian (basic), French (basic)

Interests

I am driven by a desire to contribute to improving the efficiency of processes through the development of software tools. I am particularly interested in identifying user information needs, analysing aggregated data, and designing user interfaces that support users in their specific daily tasks. I was main developer for FindZebra, a search engine to aid clinicians in the task of diagnosing difficult cases, and PyAlg, a tool for supporting computer science students in learning algorithms. Both resulted in published academic articles. I also have a keen interest in technical communication, computer security and data visualisation. My discovery and analysis of a recent security breach was covered in more than 100 news articles.

Experience

Assistant lecturer, Department of Computer Science, University of Copenhagen; Copenhagen, Denmark; August 2011 - present

Assistant lecturer for Machine Architecture (Block 1, 2011).
Assistant lecturer for Principles of Computer System Design (Block 2, 2011/2012).
Assistant lecturer for Computer Networks (Block 4, 2012).

Internship, Alcatel Lucent; Timisoara, Romania; August 2008

Developing an ASP.NET application that provides an analysis of stock market evolution.

Internship, 2G PROD; Timisoara, Romania; July 2008

In charge of the new release of GSMGuide, a Java ME based phone navigation software.

Education

University of Copenhagen, Denmark - Master Studies, August 2009 - September 2011
MSc in Computer Science

West University of Timisoara, Romania - Master Studies, September 2009 - July 2011
MSc in Artificial Intelligence and Distributed Computing

West University of Timisoara, Romania - Bachelor Studies, September 2006 - July 2009
BSc in Computer Science (English)

Programming Languages

Python, Java, C#, Bash, SQL

Peer Reviewed Publications

Radu Dragusin, Paula Petcu, Christina Lioma, and Ole Winther. *Zebra: searching for rare diseases - A case of task-based search*, submitted to the Task Based and Aggregated Search Workshop, ECIR (2012)

Radu Dragusin, Paula Petcu, Christina Lioma, Birger Larsen, Henrik Jørgensen, and Ole Winther, *Rare Disease Diagnosis as an Information Retrieval Task*, in Proceedings of 3rd International Conference on the Theory of Information Retrieval 2011, Lecture Notes in Computer Science, Springer (2011), doi:10.1007/978-3-642-23318-0_38

Radu Dragusin, and Paula Petcu, *PyAlg: An Algorithm Learning Platform*, in Proceedings of the 5th International Conference on Virtual Learning, Bucharest University Press (2010), ISSN: 1844-8933

Publications Pending Review

Radu Dragusin, Paula Petcu, Christina Lioma, Birger Larsen, Henrik L. Jørgensen, Ingemar Cox, Lars K. Hansen, Peter Ingwersen, and Ole Winther. *Zebra: a vertical search engine for rare diseases*, submitted for publishing to the International Journal of Medical Informatics (2012)

Master Thesis

Radu Dragusin, and Paula Petcu. *A Vertical Search Engine Supporting the Diagnosis of Rare Diseases*. Copenhagen, August 2011. (available at: <http://www.dragusin.ro/ThesisDIKU.pdf>; project webpage: cogsys.imm.dtu.dk/rarediseases/)

Projects

IEEE log – a data breach I discovered in September 2012, prevented the release of personal details for close to 100,000 engineers and scientists, as detailed at ieeelog.com/ and reported in more than 100 news articles in more than 20 languages (ieeelog.com/ieee-breach-in-press/)

FindZebra – a search engine optimised for the task of diagnosing rare diseases (available at: findzebra.com)

RareDisSS – a vertical search engine for rare diseases, the subject of the 2011 paper and of my master thesis (code available at: code.google.com/p/raredisss/)

PyAlg – an algorithm learning platform, the subject of the 2010 published article (code available at: code.google.com/p/pyalg/)

MalcolmFS – a stackable versioning file system implemented in Python (code available at: code.google.com/p/malcolm/)

References

Ole Winther (owi@imm.dtu.dk), PhD, Associate Professor, Intelligent Signal Processing, Informatics and Mathematical Modelling, Technical University of Denmark (DTU); Joint group leader, Gene Regulation, Bioinformatics, University of Copenhagen (KU)

Christina Lioma (c.lioma@diku.dk), PhD, Assistant Professor, Department of Computer Science (DIKU), University of Copenhagen (KU)

Birger Larsen (blar@iva.dk), PhD, Associate Professor, Research group leader, Information Systems and Interaction Design, Royal School of Library and Information Science (IVA), Copenhagen.

Marcos Vaz Salles (vmarcos@diku.dk), PhD, Assistant Professor, Department of Computer Science (DIKU), University of Copenhagen (KU)

Jyrki Katajainen (jyrki@diku.dk), PhD, Associate Professor, Leader of the Performance Engineering Laboratory, Department of Computer Science (DIKU), University of Copenhagen (KU)