

Anton Beloglazov, PhD

Researcher, IBM Research – Australia

CONTACT INFORMATION	<div>+61-45-105-23-58 anton.beloglazov@gmail.com http://beloglazov.info/</div> <div>307/20 Garden Street, Melbourne South Yarra, VIC 3141, Australia</div>
PROFESSIONAL INTERESTS	<div>• Distributed systems • Web services • Concurrency and scalability • Functional programming • Platforms and infrastructure • Algorithm design and analysis</div>
SKILLS	Java, Scala, Python, Haskell, SQL, TypeScript, JavaScript, Bash
EDUCATION	<div><div>Ph.D. in Computer Science02/2009 – 02/2013 <i>The University of Melbourne, Australia</i> Energy-Efficient Management of Virtual Machines in Data Centers for Cloud Computing Supervisor: Prof. Rajkumar Buyya</div><div>M.Sc. in Computer Science and Software Engineering09/2006 – 06/2008 <i>Novosibirsk State Technical University, Russia</i></div><div>B.Sc. in Computer Science and Software Engineering09/2002 – 06/2006 <i>Novosibirsk State Technical University, Russia</i></div></div>
AWARDS AND SCHOLARSHIPS	<div>• First-prize winner of IBM MobileFirst Hackathon04/2014 • International Postgraduate Research Scholarship (IPRS)03/2009 – 03/2013 • Melbourne International Research Scholarship (MIRS)03/2009 – 08/2012 • Microsoft Research and EII Fellowship for 2011 EII PhD School09/2011 • The Best Presentation at NSTU Days of Science – 200803/2008 • Russian Federation Academic Scholarship02/2003 – 06/2008</div>
PROFESSIONAL EXPERIENCE	<div><div>Researcher at IBM Research, Australia02/2013 – Present The work focuses on modeling and simulation of bushfire evacuation scenarios, including fire simulation, evacuee behavior modeling (e.g., response to events, destination selection), agent-based traffic simulation, post-simulation analysis, and building a distributed system implementing the modeling workflow.</div><div>Research Intern at IBM Research, Australia06/2011 – 02/2013 6-8 hours per week. The work focused on microscopic discrete-event traffic simulation using car-following models, such as the Intelligent Driver Model (IDM).</div><div>Research Intern at IBM Research, India09/2010 – 12/2010 The work focused on applying the software product line methodology to improve productivity in design and development of IT service delivery simulation models.</div><div>Web Developer at XIAG AG, Russia08/2008 – 02/2009</div><div>Web Developer at SB RAS Publishing, Russia02/2007 – 08/2008</div><div>Web Developer at Softomate LLC, Russia06/2004 – 09/2004</div><div>Web Developer at WebMotion, Russia06/2003 – 09/2003</div><div>Web Developer, Freelance06/2002 – 08/2008</div></div>

OPEN SOURCE

[OpenStack Neat](#)

A Python framework for dynamic consolidation of virtual machines.

[OpenStack Deployment Guide](#)

A step-by-step guide and shell scripts for deploying OpenStack on CentOS using the KVM hypervisor and GlusterFS distributed file system.

[CloudSim](#)

A Java framework for modeling and simulation of Cloud computing systems.

[Zotero Scholar Citations](#)

A Zotero plugin for fetching citations from Google Scholar (> 13,000 users).

[Favorite URL Opener](#)

A Google Chrome extension for opening multiple saved URLs with one click.

[hamcrest-querydsl](#)

A Java library of Hamcrest matchers for Querydsl.

[vim-online-thesaurus](#)

A Vim plugin for looking up words in an online thesaurus.

[vim-textobj-quotes](#)

A Vim plugin providing text objects for the closest pairs of quotes of any type.

[vim-textobj-punctuation](#)

A Vim plugin providing text objects for text between the cursor and punctuation.

[clj-genetic](#)

A Clojure library for implementing real-coded genetic algorithms.

[github.com/beloglazov](#)

More projects.

PUBLICATIONS

Book Chapters

1. **Anton Beloglazov**, Rajkumar Buyya, Young Choon Lee, and Albert Zomaya, "A Taxonomy and Survey of Energy-Efficient Data Centers and Cloud Computing Systems," *Advances in Computers*, Marvin V. Zelkowitz (editor), Volume 82, Pages: 47-111, ISBN: 978-0-12-385512-1, Academic Press, USA, 2011.

Journal Publications (7)

2. **Anton Beloglazov**, Dipyaman Banerjee, Alan Hartman, and Rajkumar Buyya, "Improving Productivity in Design and Development of IT Service Delivery Simulation Models," *Journal of Service Research (JSR)*, Sage Publications, USA, 2014 (in press, accepted on 27/05/2014).
3. **Anton Beloglazov** and Rajkumar Buyya, "OpenStack Neat: A Framework for Dynamic and Energy-Efficient Consolidation of Virtual Machines in OpenStack Clouds," *Concurrency and Computation: Practice and Experience (CCPE)*, John Wiley & Sons, Ltd, USA, 2014 (in press, accepted on 19/05/2014).

4. **Anton Beloglazov** and Rajkumar Buyya, “Managing Overloaded Hosts for Dynamic Consolidation of Virtual Machines in Cloud Data Centers Under Quality of Service Constraints,” *IEEE Transactions on Parallel and Distributed Systems (TPDS)*, Volume 24, Issue 7, Pages 1366-1379, IEEE CS Press, USA, 2013.
5. **Anton Beloglazov** and Rajkumar Buyya, “Optimal Online Deterministic Algorithms and Adaptive Heuristics for Energy and Performance Efficient Dynamic Consolidation of Virtual Machines in Cloud Data Centers,” *Concurrency and Computation: Practice and Experience (CCPE)*, Volume 24, Issue 13, Pages: 1397-1420, John Wiley & Sons, Ltd, USA, 2012.
6. **Anton Beloglazov**, Jemal Abawajy, and Rajkumar Buyya, “Energy-Aware Resource Allocation Heuristics for Efficient Management of Data Centers for Cloud Computing,” *The International Journal of Grid Computing and eScience, Future Generation Computer Systems (FGCS)*, Volume 28, Issue 5, Pages: 755-768, Elsevier Science, The Netherlands, 2012.
7. Kyong Hoon Kim, **Anton Beloglazov**, and Rajkumar Buyya, “Power-Aware Provisioning of Virtual Machines for Real-time Cloud Services,” *Concurrency and Computation: Practice and Experience (CCPE)*, Volume 23, Issue 13, Pages: 1492-1505, John Wiley & Sons, Ltd, USA, 2011.
8. Rodrigo N. Calheiros, Rajiv Ranjan, **Anton Beloglazov**, Cesar A. F. De Rose, and Rajkumar Buyya, “CloudSim: A Toolkit for Modeling and Simulation of Cloud Computing Environments and Evaluation of Resource Provisioning Algorithms,” *Software: Practice and Experience (SPE)*, Volume 41, Number 1, Pages: 23-50, John Wiley & Sons, Ltd, USA, 2011.

Selected Conference Publications

9. **Anton Beloglazov** and Rajkumar Buyya, “Adaptive Threshold-Based Approach for Energy-Efficient Consolidation of Virtual Machines in Cloud Data Centers,” *Proceedings of the 8th International Workshop on Middleware for Grids, Clouds and e-Science (MGC 2010)*, Bangalore, India: ACM, November 29 – December 3, 2010.
10. **Anton Beloglazov** and Rajkumar Buyya, “Energy Efficient Resource Management in Virtualized Cloud Data Centers,” *IEEE TCSC Doctoral Symposium, Proceedings of the 10th IEEE/ACM International Symposium on Cluster, Cloud, and Grid Computing (CCGrid 2010)*, Melbourne, Australia, May 17-20, 2010.

Technical Reports

11. **Anton Beloglazov**, Sareh Fotuhi Piraghaj, Mohammed Alrokayan, and Rajkumar Buyya, “Deploying OpenStack on CentOS Using the KVM Hypervisor and GlusterFS Distributed File System,” *Technical Report CLOUDS-TR-2012-3*, Cloud Computing and Distributed Systems Laboratory, The University of Melbourne, August 14, 2012.

LANGUAGES English – fluent
 Russian – native speaker

REFERENCES Available upon request