

Nenad Medvidovic

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1 Education

Doctor of Philosophy (3/99, Cumulative GPA: 4.00)

University of California, Irvine — Department of Information and Computer Science
Dissertation: *Architecture-Based Specification-Time Software Evolution*

Master of Science (6/95, Cumulative GPA: 4.00)

University of California, Irvine — Department of Information and Computer Science

Bachelor of Science, Summa Cum Laude (8/92, Cumulative GPA: 4.00)

Arizona State University — Computer Science and Engineering Department

2 Employment History

- 2/11 - present Professor, Computer Science Department
University of Southern California, Los Angeles, CA
- 7/15 - present Chair, Special Interest Group on Software Engineering (SIGSOFT)
Association for Computing Machinery (ACM)
- 7/11 - 6/15 Associate Chair for Ph.D. Affairs, Computer Science Department
University of Southern California, Los Angeles, CA
- 1/09 - 1/13 Director, Center for Systems and Software Engineering
Viterbi School of Engineering, University of Southern California, Los Angeles, CA
- 3/05 - 2/11 Associate Professor, Computer Science Department
University of Southern California, Los Angeles, CA
- 1/99 - 3/05 Assistant Professor, Computer Science Department
University of Southern California, Los Angeles, CA
- 9/94 - 12/98 Graduate Student Researcher, Software Architecture Group
University of California, Irvine, CA
- 9/93 - 8/94 Teaching Assistant
University of California, Irvine, CA
- 6/93 - 8/93 Research Assistant, Software Engineering Group
Arizona State University, Tempe, AZ and Rupp Technology, Phoenix, AZ
- 8/92 - 8/93 Teaching Assistant
Arizona State University, Tempe, AZ

3 Honors, Awards, Fellowships

- 2016 Fellow, IEEE
- 2015 Distinguished Scientist, ACM
- 2010 USC Mellon Mentoring Award
- 2009 Best Poster Award, International Conference on Program Comprehension
- 2008 Most Influential Paper Award, International Conference on Software Engineering
- 2005, 2009 Finalist, Most Influential Paper Award, Int'l Conference on Software Engineering
- 2007 IBM Real-Time Innovation Faculty Award
- 2007 Most cited software engineering paper published in a scientific journal in 2000

2005	Okawa Foundation Research Grant
2000-2005	National Science Foundation (NSF) CAREER Award
1999, 2000	USC, School of Engineering Teaching Honor Roll
1993-94	UC Irvine, Department of Information and Computer Science Fellowship
1992	Arizona State University, Moeur Award (top student in the graduating class)
1991-93	UPE National Honor Society for the Computing Sciences
1990-93	Golden Key National Honor Society
1990-92	Arizona Regents International Student Scholarship
1989-92	Dean's Honor List, Arizona State University

4 Selected Statistics

• <i>Total number of citations</i> (scholar.google.com)	14,333
• <i>h-index</i> (www.harzing.com/pop.htm, scholar.google.com)	50
• <i>g-index</i> (www.harzing.com/pop.htm)	116
• <i>Top Authors in Software Engineering</i> (academic.microsoft.com)	5 th all-time
• <i>Most cited publication</i> (scholar.google.com)	2,572 citations [J26]
• <i>Most cited papers, IEEE Trans. on Software Engr.</i> (academic.microsoft.com)	7 th [J26]
• <i>Most cited papers, ACM Trans. on Software Engr. & Methodology</i> (academic.microsoft.com)	10 th [J24]

5 Graduated Doctoral Students

- PhD1** Marija Mikic-Rakic, July 2004
currently an Engineering Director at Google
- PhD2** Nikunj R. Mehta, September 2004
currently a Founder and CEO at Falconry
formerly a Consulting Member of Technical Staff at Oracle
- PhD3** Roshanak Roshandel, December 2006
currently an *Associate Professor* and *Department Chair* at Seattle University
- PhD4** Sam Malek, May 2007
currently an *Associate Professor* at UC Irvine
formerly an *Associate Professor* at George Mason University
- PhD5** Chris Mattmann, August 2007
currently a Principal Data Scientist and Chief Architect at JPL and
an *Adjunct Associate Professor* at USC

- PhD6** Yuriy Brun, March 2008
currently an *Assistant Professor* at University of Massachusetts
formerly a *Computing Innovation (CI) Post-Doctoral Fellow* at University of Washington
- PhD7** Chiyoung Seo, May 2008
currently a Software Architect at Couchbase
formerly a Senior Software Development Engineer at Yahoo
- PhD8** George Edwards, July 2010
currently founder of Quandary Peak Research
formerly founder and Chief Scientist at Blue Cell Software
- PhD9** David Woollard, January 2011
currently a VP of Engineering at MoveWith
formerly a Senior Computer Scientist at JPL
- PhD10** Daniel Popescu, November 2011
currently a Staff Software Engineer at Google
- PhD11** Ivo Krka, January 2014
currently a Technical Lead at Google
- PhD12** Hossein Tajalli, May 2014
currently a Senior Software Architect at NVIDIA
- PhD13** Joshua Garcia, May 2014
currently a Research Scientist at UC Irvine
formerly a Post-Doctoral Researcher at George Mason University
- PhD14** Jae young Bang, March 2015
currently a Software Engineer at Daum Kakao
- PhD15** Gholamreza Safi, July 2016
currently a Software Engineer at Cloudera

6 Publications

Authored Books

- EB1** Richard N. Taylor, **Nenad Medvidovic**, and Eric M. Dashofy. “Software Architecture: Foundations, Theory, and Practice.” *John Wiley & Sons*, January 2009, 736 pages.
ISBN-10: 0470167742. ISBN-13: 978-0470167748.

Edited Books and Journals

- EB2** **Nenad Medvidovic** and Santonu Sarkar, eds. “Proceedings of the 2017 Innovations in Software Engineering Conference,” ACM, February 2017.
- EB3** Barbora Buhnova, Jorge Cuellar, Magnus Larsson, Javier López, **Nenad Medvidovic**, Antonio Vallecillo, eds. “Special Issue on Component-Based Software Engineering and Software Architecture,” *Science of Computer Programming*, September 2014.
- EB4** Magnus Larsson and **Nenad Medvidovic**, eds. “Proceedings of the The 15th International ACM SIGSOFT Symposium on Component Based Software Engineering (CBSE-2012).” ACM, June 2012.
- EB5** Harald Gall and **Nenad Medvidovic**, eds. “Proceedings of the 33rd International Conference on Software Engineering (ICSE 2011).” ACM, May 2011.

- EB6** Fabrice Saffre, **Nenad Medvidovic**, and Alberto Montresor, eds. “Proceedings of the 3rd International Conference on Self-Adaptive and Self-Organizing Systems.” IEEE Computer Society, September 2009.
- EB7** **Nenad Medvidovic** and Tetsuo Tamai, eds. “Proceedings of the Warm Up Workshop for the 32nd International Conference on Software Engineering.” ACM, April 2009.
- EB8** Robert Nord, **Nenad Medvidovic**, Rene Krikhaar, Judith Stafford, Jan Bosch, eds. “Proceedings of the 5th Working IEEE/IFIP Conference on Software Architecture.” *IEEE Computer Society*, March 2006.

Refereed Journal Articles

- J1** Thibaud Lutellier, Devin Chillak, Joshua Garcia, Lin Tan, Derek Rayside, **Nenad Medvidovic**, and Robert Kroeger. “Measuring the Impact of Code Dependencies on Software Architecture Recovery Techniques.” *IEEE Transactions on Software Engineering*. Accepted – to appear.
- J2** Pooyan Behnamghader, Duc Minh Le, Joshua Garcia, Daniel Link, Arman Shahbazian, and **Nenad Medvidovic**. “A Large-Scale Study of Architectural Evolution in Open-Source Software Systems.” *Journal of Empirical Software Engineering*, DOI: 10.1007/s10664-016-9466-0 (November 2016).
- J3** Hamid Bagheri, Joshua Garcia, Alireza Sadeghi, Sam Malek, and **Nenad Medvidovic**. “Software Architectural Principles in Contemporary Mobile Software: from Conception to Practice.” *Journal of Systems and Software*, vol. 119 (September 2016).
- J4** Yuriy Brun, Jae young Bang, George Edwards, and **Nenad Medvidovic**. “Self-Adapting Reliability in Distributed Systems.” *IEEE Transactions on Software Engineering*, vol. 41, no. 8 (August 2015).
- J5** Chris Mattmann, Joshua Garcia, Ivo Krka, Daniel Popescu, and **Nenad Medvidovic**. “Revisiting the Anatomy and Physiology of the Grid.” *Journal of Grid Computing*, vol. 13, no. 1 (March 2015).
- J6** Yuriy Brun and **Nenad Medvidovic**. “Entrusting Private Computation and Data to Untrusted Networks.” *IEEE Transactions on Dependable and Secure Computing*, vol. 10, no. 4 (July/August 2013).
- J7** Hossein Tajalli and **Nenad Medvidovic**. “iDARE — A Reference Architecture for Integrated Software Environments.” *Journal of Software: Practice and Experience*, vol. 44, no. 3 (March 2014).
- J8** Chris A. Mattmann, **Nenad Medvidovic**, Sam Malek, George Edwards, and Somo Banerjee. “A Middleware Platform for Providing Mobile and Embedded Computing Instruction to Software Engineering Students.” *IEEE Transactions on Education*, vol. 55, no. 3 (August 2012).
- J9** Sam Malek, **Nenad Medvidovic**, and Marija Mikic-Rakic. “An Extensible Framework for Improving a Distributed Software System's Deployment Architecture.” *IEEE Transactions on Software Engineering*, vol. 38, no. 1 (January/February 2012).
- J10** **Nenad Medvidovic**, Hossein Tajalli, Joshua Garcia, Yuriy Brun, Ivo Krka, and George Edwards. “Engineering Heterogeneous Robotics Systems: A Software Architecture-Based Approach”. *IEEE Computer*, vol. 44, no. 5 (May 2011).

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