

Nenad Medvidovic  
*Professor and Associate Chair*  
Computer Science Department (SAL 338)  
Viterbi School of Engineering  
941 Bloom Walk  
University of Southern California  
Los Angeles, CA 90089-0781  
U.S.A.

+1-213-740-5579 (phone)  
+1-213-740-4927 (fax)  
nen@usc.edu (email)  
<http://sunset.usc.edu/~nen/> (WWW)

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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

2015 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

- *Total number of citations* (scholar.google.com) 13,259
- *h-index* (www.harzing.com/pop.htm, scholar.google.com) 48
- *g-index* (www.harzing.com/pop.htm) 112
- *Top Authors in Software Engineering* (academic.research.microsoft.com) 18<sup>th</sup> all-time
- *Most cited publication* (scholar.google.com/) 2,427 citations [J26]
- *Most cited papers, IEEE Trans. on Software Engr.* (academic.research.microsoft.com) 6<sup>th</sup> [J26], 32<sup>nd</sup> [J29]
- *Most cited papers, ACM Trans. on Software Engr. & Methodology* (academic.research.microsoft.com) 21<sup>st</sup> [J24]

#### 5 Graduated Doctoral Students

- Jae young Bang, March 2015  
currently a Software Engineer at Daum Kakao
- Joshua Garcia, May 2014  
currently a Research Scientist at UC Irvine  
formerly a Post-Doctoral Researcher at George Mason University
- Hossein Tajalli, May 2014  
currently a Software Engineer at NVIDIA
- Ivo Krka, January 2014  
currently a Software Engineer at Google
- Daniel Popescu, November 2011  
currently a Senior Software Engineer at Google
- David Woollard, January 2011  
currently a Software Engineering Manager at Vdio  
formerly a Senior Computer Scientist at JPL

- George Edwards, July 2010  
currently founder of Quandary Peak Research  
formerly founder and Chief Scientist at Blue Cell Software
- Chiyoung Seo, May 2008  
currently a Software Engineer at Couchbase  
formerly a Senior Software Development Engineer at Yahoo
- Yuriy Brun, March 2008  
currently an *Assistant Professor* at University of Massachusetts  
formerly a *Computing Innovation (CI) Post-Doctoral Fellow* at University of Washington
- Chris Mattmann, August 2007  
currently a Chief Architect at JPL and an *Adjunct Associate Professor* at USC
- Sam Malek, May 2007  
currently an *Associate Professor* at UC Irvine  
formerly an *Associate Professor* at George Mason University
- Roshanak Roshandel, December 2006  
currently an *Associate Professor* at Seattle University
- Nikunj R. Mehta, September 2004  
currently a Software Architect at C3  
formerly a Consulting Member of Technical Staff at Oracle
- Marija Mikic-Rakic, July 2004  
currently a Software Engineering Manager at Google

## 6 Publications

### Authored Books

**AB1** 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** 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*, vol. 90, part B (September 2014).

**EB3** 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.

**EB4** Harald Gall and **Nenad Medvidovic**, eds. “Proceedings of the 33rd International Conference on Software Engineering (ICSE 2011).” ACM, May 2011.

**EB5** 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.

**EB6** **Nenad Medvidovic** and Tetsuo Tamai, eds. “Proceedings of the Warm Up Workshop for the 32nd International Conference on Software Engineering.” ACM, April 2009.

**EB7** 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** 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*. In Submission.
- J2** 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*. In submission.
- 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*. In submission.
- 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).
- J11** Sam Malek, George Edwards, Yuriy Brun, Hossein Tajalli, Joshua Garcia, Ivo Krka, **Nenad Medvidovic**, Marija Mikic-Rakic, and Gaurav Sukhatme. "An Architecture-Driven Software Mobility Framework." *Journal of Systems and Software*, special issue on Software Architecture and Mobility, vol. 83, no. 6 (June 2010).
- J12** **Nenad Medvidovic** and George Edwards. "Software Architecture and Mobility: A Roadmap." *Journal of Systems and Software*, special issue on Software Architecture and Mobility, vol. 83, no. 6 (June 2010).

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