

Nenad Medvidovic

*Professor*

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)

## Table of Contents

Education	2
Employment History	2
Honors, Awards, Fellowships	2
Selected Statistics	3
Graduated Doctoral Students	3
Publications	4
Research Support	25
Patents	31
Teaching	31
Supervised Students	34
Formal Presentations	37
Professional Service	46
University Service	57
Professional Associations	59
Consulting	59

## 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 <sup>th</sup> 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 <sup>th</sup> [J26]
• <i>Most cited papers, ACM Trans. on Software Engr. &amp; Methodology</i> (academic.microsoft.com)	10 <sup>th</sup> [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** Chiyong 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).

# Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

## Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

## API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

## LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

## FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

## E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.