



# Andrei Aurel Vancea

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## Education

- 2009–present **(Anticipated) Ph.D. in Informatics**, *University of Zurich*, Switzerland.
- 2004–2005 **M.Sc. in Computer Science**, *Technical University of Cluj-Napoca*, Romania, 8.33/10.
- 2004 Diploma Thesis at ETH Zurich (as an Erasmus exchange student)
- 1999–2004 **Dipl. Ing. in Computer Science**, *Technical University of Cluj-Napoca*, Romania, 9.09/10.

## Work Experience

- 2009–present **Research and Teaching Assistant**, *University of Zurich*, Switzerland.
- 2006–2008 **Research and Teaching Assistant**, *ETH Zurich*, Switzerland.
- 2005 **Senior Software Engineer**, *Yonder IT Solutions (former Nethrom Software)*, Cluj-Napoca, Romania.
- Design and implementation of a visualization application for architectural projects
  - Technologies: C++, OpenSceneGraph, OpenGL
- 2003–2004 **Software Developer (part time)**, *Nordlogic*, Cluj-Napoca, Romania.
- Design and Implementation of a monitoring application for telephone traffic
  - Technologies: Delphi, Microsoft Access
- 2000 **Software Developer (internship)**, *Timteh Systems*, Timișoara, Romania.
- Design and implementation of a microcontroller-based GPS automobile monitoring system
  - Technologies: C, Delphi, Assembly

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## Skills

Programming Languages	C/C++, Java, Python, Pascal/Delphi, Assembly, Prolog, ML, Lisp
System Administration	GNU/Linux, Windows
Written & Spoken Languages	Romanian (native), English (fluent), German (basic), French (basic)

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## Personal Details

Family Name	Vancea
First Name	Andrei
Middle Name	Aurel
Nationality	Romanian (B Permit)
Date of Birth	September 22, 1980
Marital Status	Single

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## Research Projects

- 2009–present **CoopSC (Cooperative Semantic Caching)**.
- Design and implementation of a cooperative database caching solution
  - Project funded by the Swiss National Science Foundations (SNF), Contract No. 200021-134679/1
  - Technologies: C++, STL, Boost library, Python, PostgreSQL
- 2006–2008 **OMS Avon**.
- Design and implementation of rapid prototyping object oriented data management system based on the OM data model
  - Technologies: Java, db4o
- 2004 **GEdit**.
- Design and implementation of an asynchronous collaborative graphical editor (part of the diploma thesis)
  - Technologies: Java
- 2003 **DICOM**.
- Design and implementation of a medical reporting tool based on the DICOM standard
  - Technologies: C++, Microsoft SQL Server
- 2003 **PSP (Prolog Sever Pages)**.
- Design and implementation of an Apache module which allows developing web applications in Prolog
  - Technologies: C, SWI Prolog

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## Professional Activities

Teaching	See <a href="http://www.csg.uzh.ch/staff/vancea#teaching">http://www.csg.uzh.ch/staff/vancea#teaching</a>
Supervised Thesis	See <a href="http://www.csg.uzh.ch/staff/vancea#thesis">http://www.csg.uzh.ch/staff/vancea#thesis</a>
Program Committees	AIMS 2012 (Ph.D. Student Workshop)
Reviewer	AIMS 2012, AIMS 2011, NOMS 2010, ICC 2010, MMNS 2009, P2P 2009

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## Awards, Competitions

- 2012 Best Paper Award, 6<sup>th</sup> International Conference on Autonomous Infrastructure, Management and Security (AIMS)
- 2003 Rank 17 of 49 teams, ACM Contest, South Eastern European Regional
- 2002 Rank 13 of 45 teams, ACM Contest, South Eastern European Regional
- 2001 Rank 18 of 46 teams, ACM Contest, South Eastern European Regional
- 2000 Rank 11 of 41 teams, ACM Contest, South Eastern European Regional
- 1999 2<sup>nd</sup> Prize at International Programming Contest, Chisinau, Moldova
- 1999 Honorable Mention, ACM Contest, South Eastern European Regional
- 1999 1<sup>st</sup> Prize at the National Informatics Olympiad
- 1999 1<sup>st</sup> Prize at the District Informatics Olympiad
- 1998 2<sup>nd</sup> Prize at the National Informatics Olympiad
- 1998 1<sup>st</sup> Prize at the District Informatics Olympiad
- 1998 Special Prize at Nemes Tihamer Contest, Budapest, Hungary
- 1997 3<sup>rd</sup> Prize at the National Informatics Olympiad
- 1997 2<sup>nd</sup> Prize at the District Informatics Olympiad

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## Publications

- C. Tsiaras, M. Waldburger, G. S. Machado, A. Vancea, B. Stiller, *The Design of a Single Funding Point Charging Architecture*, 18<sup>th</sup> EUNICE Conference on Information and Communications Technologie, Budapest, Hungary, August 2012
- A. Vancea, G. S. Machado, L. d'Orazio, B. Stiller, *Cooperative Database*

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- Caching within Cloud Environments*, 6<sup>th</sup> International Conference on Autonomous Infrastructure, Management and Security (AIMS), Luxembourg, Luxembourg, June 2012
- A. Vancea, L. d'Orazio, B. Stiller, *Optimization of Flow Record Handling by Applying a Decentralized Cooperative Semantic Caching Approach*, 13<sup>th</sup> IEEE/IFIP Network Operations and Management Symposium (NOMS), Maui, Hawaii, USA, April 2012
  - A. Vancea, L. d'Orazio, B. Stiller, *A Scalable Cooperative Semantic Caching (CoopSC) Approach to Improve Range Queries*, CollaborateCom 2011: 7<sup>th</sup> International Conference on Collaborative Computing: Networking, Applications and Worksharing, Orlando, Florida, USA, October 2011.
  - A. Vancea, B. Stiller, *CoopSC: A Cooperative Database Caching Architecture*, 19<sup>th</sup> IEEE International Workshops on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE 2010), Larissa, Greece, July 2010
  - A. Vancea, B. Stiller, *A Cooperative Semantic Caching Architecture for Answering Selection Queries*, IFI Technical Report, University of Zurich, September 2009
  - A. Vancea, B. Stiller, *Answering Queries Using Cooperative Semantic Caching*, 3<sup>rd</sup> International Conference on Autonomous Infrastructure, Management and Security (AIMS 2009), Twente, The Netherlands, July 2009
  - A. Vancea, M. Grossniklaus, M. C. Norrie, *Database-Driven Web Mashups*, International Conference on Web Engineering (ICWE 2008), Yorktown Heights, New York, USA, July 2008
  - M. C. Norrie, M. Grossniklaus, C. Decurtins, A. Spindler, A. Vancea, S. Leone, *Semantic Data Management for db4o*, 1<sup>st</sup> International Conference on Object Databases (ICOODB), Berlin, Germany, March 2008
  - A. Vancea, M. Grossniklaus, M. C. Norrie, *Generic Proxies - Supporting Data Integration Inside the Database*, 9<sup>th</sup> International Symposium on Distributed Objects and Applications (DOA) (Poster), Vilamoura, Portugal, November 2007
  - D. Olinic, C. Homorodean, S. Nedeveschi, F. Rusu, A. Smeu, I. Popa, A. Vancea, *A Proposal for Structured Diagnosis Reporting in Echocardiography Using a DICOM Compliant Environment*, Computers in Cardiology, Chicago, September 2004
  - S. Nedeveschi, D. Olinic, I. Popa, F. Rusu, A. Smeu, A. Vancea, C. Homorodean, *Tools and methodology for DICOM SR in echocardiography*, International Conference on Automation, Quality and Testing, Robotics (AQTR), Cluj-Napoca, Romania, May 2004
  - L. Miclea, S. Enyedi, L. Busoniu, M. Abrudean, I. Stoian, A. Vancea, *Limited Resource Systems Testing with Microagent Societies*, European Test Symposium (ETS), Ajaccio, France, May 2004
  - S. Nedeveschi, D. Olinic, I. Popa, F. Rusu, A. Smeu, A. Vancea, C. Homorodean, *DICOM Compliant Structured Reporting Environment*, BIOSIGNAL 2004,

Brno, Czech Republic, June 2004

- A. Suci, K. Pusztai, A. Vancea, *Prolog Server Pages*, Roedunet International Conference, Iași, Romania, June 2003

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## References

- **Burkhard Stiller**, Professor of Computer Science, University of Zurich, Department of Informatics, Phone: *+41 44 635 67 10*, E-mail: *stiller@ifi.uzh.ch*
- **Daniel Lar**, Director of Software Development, Yonder IT Solutions, Cluj-Napoca, Phone: *+40 264 599 351*, E-mail: *danilar@gmail.com*
- **Sergiu Nedevschi**, Professor of Computer Science, Technical University of Cluj-Napoca, Department of Computer Science, Phone: *+40 264 401 219*, E-mail: *Sergiu.Nedevschi@cs.utcluj.ro*

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