

**Family name, First name:** Babaoglu, Ozalp  
**Researcher unique identifier ORCID-ID:** 0000-0001-5848-1319  
**Date of birth:** 10 August 1955  
**Nationality:** USA, Turkish  
**URL for web site:** <http://www.cs.unibo.it/babaoglu>

#### **Bibliometrics (Google Scholar)**

**h-index:** 43  
**i10-index:** 70  
**Total citations:** 6749

#### **EDUCATION**

1981 PhD in *Computer Science*, University of California at Berkeley, USA  
1977 MSc in *Computer Science*, University of California at Berkeley, USA  
1976 BSc in *Electrical Engineering*, George Washington University, Washington, DC, USA

#### **CURRENT POSITION**

1988 – present *Professor*, Department of Computer Science and Engineering, University of Bologna.

#### **PREVIOUS POSITIONS**

1987 – 1988 *Associate Professor*, Department of Computer Science, Cornell University, USA  
1981 – 1987 *Assistant Professor*, Department of Computer Science, Cornell University, USA

#### **FELLOWSHIPS AND AWARDS**

2015 IEEE International Conference on Cloud and Autonomic Computing, *Certificate of Appreciation*  
2007 IEEE Computer Society, *Certificate of Appreciation*  
2005 Autonomic Computing Conference, *Certificate of Appreciation*  
2002 *Fellow of the ACM* (for “contributions to fault-tolerant distributed computing, BSD Unix, and for leadership in the European distributed systems community”)  
1993 Received *Lifetime Achievement Award* from USENIX Association  
1989 Received *Recognition Award for contributions made to the UNIX System* from UNIX International  
1981 Received *Sakrisson Memorial Prize* (with Bill Joy) from the University of California, Berkeley  
1980 Received *Fellowship for Foreign Mathematicians* from the National Research Council of Italy

#### **SUPERVISION of MSc Students**

During my career at Cornell and the University of Bologna I have supervised over 80 MSc students.

#### **SUPERVISION of PhD Students**

2009 Andrea Marcozzi (now Programmer at Lepida SpA, Italy)  
2007 Gian Paolo Jesi (now Researcher at the University of Bologna, Italy)  
2007 Stefano Arteconi (now Programmer at NoemaLife, Italy)  
2005 Jaksa Vuckovic (now Software Engineer at Zuhlke Engineering, UK)  
2000 Alberto Montesor (now Associate Professor at the University of Trento, Italy)  
1985 Rogério Drummond (now Professor at the Universidade Estadual de Campinas, Brazil)

#### **SUPERVISION of Postdoctoral Fellows**

2019 – present Rachele Luzi  
2014 – 2016 Alina Sîrbu (now Assistant Professor at the University of Pisa, Italy)  
2007 Fabio Picconi (now Scientist at Technicolor, France)  
2003 – 2007 David Hales (now Lecturer at the University of Szeged, Hungary)  
2003 – 2005 Simon Patarin (now Software Engineer at Google, France)  
2002 – 2006 Mark Jelasity (now Professor at the University of Szeged, Hungary)  
2002 – 2004 Vance Maverick (now Software Engineer at Google, Mountain View, USA)  
2000 – 2005 Alberto Montesor (now Associate Professor at the University of Trento, Italy)  
1994 Mary Baker (now Researcher at HP Labs, Palo Alto, USA)

#### **TEACHING**

1981 – 1988 *Cornell University*. Taught undergraduate and graduate courses in Computer Architecture, Programming, Operating Systems, Distributed Systems  
1988 – present *University of Bologna*. Taught undergraduate and graduate courses in Programming, Operating Systems, Algorithms, Computer System Security, Complex Systems, Network Science.

#### **INSTITUTIONAL RESPONSIBILITIES**

2010 – 2012 *Department Head*, Computer Science, University of Bologna  
2006 – present *Resident Fellow*, Institute of Advanced Studies, University of Bologna  
2004 – 2010 *Member*, “Research Observatory”, University of Bologna  
1994 – 2008 *Director*, PhD Program in Computer Science, University of Bologna

**COMMISSIONS OF TRUST**

- 2017 *Member*, ACM TAAS Editor-in-Chief search committee
- 2007 – 2019 *Founding Member, Steering Committee*, International Conference on Self-Adaptive and Self-Organizing Systems (SASO)
- 2003 – 2005 *Review Panel Member*, FET projects COSIN, PEPITO, SECURE
- 2003 *Panel Member*, FET Initiatives on Global Computing
- 2001 – present *Steering Committee, Scientific Advisory Board*, Bertinoro international Center for informatics (BiCi)
- 2001 – 2005 *Panel Member*, FET Initiatives on Complex Systems

**Top-ten Publications** (ordered by number of citations)

1. Gossip-Based Aggregation in Large Dynamic Networks. *ACM Transactions on Computer Systems* 23:3, (August 2005), 219–252. (With M. Jelasity and A. Montresor) (with **890 citations**)
2. Anthill: A Framework for the Development of Agent-Based Peer-to-Peer Systems. In *Proceedings of the 22nd IEEE International Conference on Distributed Computing Systems (ICDCS)*, Vienna, Austria, July 2002, 15–22. (With A. Montresor and H. Meling) (**451 citations**)
3. Consistent Global States of Distributed Systems: Fundamental Concepts and Mechanisms. In *Distributed Systems*, Second Edition, Sape J. Mullender (Ed.), Chapter 4, Addison-Wesley-ACM Press, New York, 1993, 55–96. (With K. Marzullo) (**376 citations**)
4. Design Patterns from Biology for Distributed Computing. *ACM Transactions on Autonomous and Adaptive Systems* 1:1, (September 2006), 26–66. (With G. Canright, A. Deutsch, G. Di Caro, F. Ducatelle, L. Gambardella, N. Ganguly, M. Jelasity, R. Montemanni, A. Montresor and T. Urnes) (**372 citations**)
5. T-Man: Gossip-based Overlay Topology Management. *Computer Networks* 53:13, 2321-2339. (August 2009) (With M. Jelasity) (**261 citations**)
6. Messor: Load-Balancing through a Swarm of Autonomous Agents. In *Proceedings of the 1st Workshop on Agent and Peer-to-Peer Systems*, Bologna, Italy, July 2002, 97–108. (With A. Montresor and H. Meling) (**239 citations**)
7. RELACS: A Communications Infrastructure for Constructing Reliable Applications in Large-Scale Distributed Systems. In *Proceedings of the 28th Hawaii International Conference on System Sciences*, Maui, January 1995, vol. II, 612–621. (With R. Davoli, L.-A. Giachini and M.G. Baker) (**162 citations**)
8. Design and Implementation of a P2P Cloud System. In *Proceedings of the 27th ACM Symposium on Applied Computing (SAC 2012)*, Trento, Italy, March 2012, 412–417. (With M. Marzolla and M. Tamburini) (**145 citations**)
9. Online Reconfiguration in Replicated Databases Based on Group Communication. In *Proceedings of the International Conference on Dependable Systems and Networks (DSN 2001)*, Goteborg, Sweden, July 2001, 117–126. (With B. Kemme and A. Bartoli) (**145 citations**)
10. Server Consolidation in Clouds through Gossiping. *Proceedings IEEE International Symposium on World of Wireless, Mobile and Multimedia Networks (WoWMoM)*, Lucca, Italy, June 2011, 1–6. (With M. Marzolla and F. Panzieri) (**116 citations**)

**Books Edited** (Selected)

1. *Self-Star Properties in Complex Information Systems*, Lecture Notes in Computer Science “Hot Topics”, vol. 3460, Springer-Verlag, Berlin 2005. (With M. Jelasity, A. Montresor, C. Fetzer, S. Leonardi, A. van Moorsel and M. van Steen) (**110 citations**)
2. *Distributed Algorithms*, Lecture Notes in Computer Science, vol. 1151, Springer-Verlag, Berlin 1996. (With K. Marzullo)

**Keynote Addresses and Distinguished Lectures** (Selected)

1. Keynote Address, *IEEE International Conference on Cloud and Autonomic Computing*, Cambridge, MA (September 2015)
2. Keynote Address, *Workshop on Autonomic Distributed Systems*, Vitoria, Espirito Santo, Brazil (May 2015)
3. Keynote Address, *NSF Workshop On Trustworthiness in Emerging Distributed Systems and Networks*, Koç University, Istanbul, Turkey (June 2012)
4. Keynote Address, *Quantitative Informatics 2011*, Lipari, Italy (June 2011)
5. Keynote Address, *ACM Computing Frontiers*, Bertinoro, Italy (May 2010)
6. Distinguished Lecture, *Irish Software Engineering Research Centre*, University College Dublin, Dublin, Ireland, (May 2008)
7. Distinguished Lecture, *VR Linnaeus Research Centre*, KTH, Stockholm, Sweden, (May 2008)
8. Distinguished Lecture, *Royal Society*, London, UK (March 2008)
9. Keynote Address, *International Conference on Autonomic Computing and Communication Systems*, Frascati, Italy (October 2007)

10. Distinguished Lecture, *European Center for Living Technology*, Venice, Italy (May 2007)
11. Distinguished Lecture, *50th Anniversary of the founding of Middle East Technical University*, Ankara, Turkey (October 2006)
12. Keynote Address, *International Conference on Autonomic Computing*, Seattle, WA USA (June 2005)

**Member of Editorial Boards**

- 2005 – present *Associate Editor*, ACM Transactions on Autonomous and Adaptive Systems  
1994 – 2012 *Associate Editor*, ACM Transactions on Computer Systems  
1990 – 2011 *Associate Editor*, ACM Springer-Verlag Distributed Computing