

Reuven Yagel

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Education

Ben-Gurion University of the Negev, Beer-Sheva, Israel.

Ph.D. 2007 in Computer Science.

Advisor: Prof. Shlomi Dolev.

Thesis topic: Self-Stabilizing Operating Systems.

Ben-Gurion University of the Negev, Beer-Sheva, Israel.

M.Sc. 2000 in Computer Science.

Advisor: Dr. Michael Elhadad.

Thesis topic: A Distributed Object-based Middleware for Simulations.

Ben-Gurion University of the Negev, Beer-Sheva, Israel.

B.Sc. 1998 in Math. and Computer Science.

Herzog College of Har-Etzion, Alon-Shevut, Israel.

Teaching Diploma 1995 in Oral Law.

Employment

2008-Present, **Jerusalem College of Engineering**,

Lecturer at the Software Engineering Department.

Courses: Software Engineering, Operating Systems, Distributed Systems.

Graduate project Instructor.

1998-Present, **Rafael, Weapon Test & Evaluation Center**, Mizpe-Ramon & Misgav

- 2006-2008 - Leading a command & control project (C#). Developing an ORM layer (Linq and ASP-MVC). Integration of missile simulations with operational systems.
- 2000-2005 - developed and lead several small C4 projects. Also developed interfaces and debriefing systems for an electronic warfare test range (C++/ MFC/ .Net environments), and GPS based exercise planning and monitoring system. Managed computer operations center for weapon tests and military exercises.
- 1998-1999 - Developing threat debriefing systems for the IAF (Windows/C++). Programming and operating a test-range control system (OpenVMS/C). Developing remote control system for sensors (IRIG-B, C++).

- **Other professional activities:** various technical user groups, handling organizational knowledge management, applying software engineering practices, experienced with various languages, systems, tools, frameworks, etc., various courses incl. project management, high security classification.

2008, **Ben-Gurion University**, Postdoc position.

1998-2004, **High School**, Mizpe-Ramon.

- CS & Math teacher, preparing students for 5 point CS exams.

Publications

[1] S. Dolev, R. Yagel. “Toward Self-Stabilizing Operating Systems”, *Proc. of the 15th Dexa, 2nd International Workshop on Self-Adaptive and Autonomic Computing Systems (SAACS’04)*, pp. 684-688, Zaragoza, Spain, 2004

[2] S. Dolev, R. Yagel. “Self-Stabilizing Operating Systems”, *Online Proc. of the 20th ACM Symposium on Operating Systems Principles (SOSP’05)*, Brighton, UK, 2005 (Poster Abstract).

[3] S. Dolev, R. Yagel. “Memory Management for Self-Stabilizing Operating Systems”, *Proc. of the 7th Symposium on Self Stabilizing Systems (SSS’05)*, pp. 113-127, Barcelona, Spain, 2005.

[4] S. Dolev, R. Yagel. “Self-Stabilizing Device Drivers”, *Proc. of the 8th International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS’06)*, pp. 276-289, Dallas, Texas, 2006.

[5] O. Brukman, S. Dolev, Y. Haviv, R. Yagel. “Self-Stabilization as a Foundation for Autonomic Computing”, *Proc. of the ARES 2007, 1st Workshop on Foundations of Fault-tolerant Distributed Computing (FOFDC’07)*, pp. 991-998, Vienna, Austria, 2007.

[6] S. Dolev, R. Yagel. “Stabilizing Trust and Reputation for Self-Stabilizing Efficient Hosts in Spite of Byzantine Guests”, *Proc. of the 9th International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS’07)*, pp. 266-280, Paris, France, 2007 (full version submitted to IEEE TDSC).

Journal Publications

[1] S. Dolev, R. Yagel. “Memory Management for Self-Stabilizing Operating Systems”, *The Journal of Aerospace Computing, Information, and Communication (JACIC)*, pp. 260-280, Vol. 3 No 6. June 2006.

[2] S. Dolev, R. Yagel. “Towards Self-Stabilizing Operating Systems”, *IEEE Transactions on Software Engineering (TSE)*, Vol. 34, No. 4, July/August 2008.

[3] S. Dolev, R. Yagel. “Self-Stabilizing Device Drivers”, *ACM Transactions on Autonomous and Adaptive Systems (TAAS)*, Vol. 3, No. 4, November 2008.

Academic Activities/Assistance (selected)

Program Committees. International Conference on Autonomic and Autonomous Systems (ICAS’07,’08, ’09), Self-Organization and Autonomous Systems in Computing and Communications (SOAS’06,’07)

Journal Reviews. Journal of Systems and Software (JSS’04), Transactions on Autonomous and Adaptive Systems (TAAS’06).

Conference Reviews. Symposium on Principles of Distributed Computing (PODC’05), Symposium on Distributed Computing (DISC’06), Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS’05,’06,’07), Haifa Systems and Storage (SYSTOR’07), International Parallel and Distributed Processing Symposium (IPDPS’09)

Undergraduate Project Supervision. Talks and Presentations.

Awards (selected)

Rafael excellence prize, ’99, ’06, ’07 .