A. EDUCATION

NATIONAL TECHNICAL UNIVERSITY OF ATHENS

2017 PhD School of Electrical and Computer Engineering.

Thesis title: "Enabling Reasoning and Verification Support for

Intelligent Agent Systems, using Formal Methods".

Supervisor: Prof. Petros Stefaneas, Prof. Panaviotis Frangos

Ph.D. Degree Examination: December 2017

2001 – 2009 NATIONAL TECHNICAL UNIVERSITY OF ATHENS

School of Applied Mathematical and Physical Sciences

Major in: Mathematics for Statistics and Computer

1998 - 2001 2nd GENERAL HIGH SCHOOL OF AGIA PARASKEVI

Diploma Degree

B. PROFESSIONAL EXPERIENCE

2008-2011 Private tutor in Mathematics and Computer Science for high

school students.

Tutor in Mathematics and Computer Science at the center

Technokids-Technoplus Agia Paraskevi.

2013-2015 Researcher at the Research project THALES: Algebraic modeling of

topological and computational structures (Research Project Coordinator: Prof Lambropoulou Sofia N.T.U.A). Member of the organizing committee of a 3-day workshop dedicated to the dissemination of the deliverables of the project. Participation in

project's management and coordination.

2014-2015 Researcher at the Research project Open Academic Courses

N.T.U.A. (Research Project Coordinator: Prof Kokkolakis Georgios

N.T.U.A). Participation in project's deliverables writing.

Researcher at the Research project Hellenic Academic Ebooks

(Research Project Coordinator: Prof Koletsos Georgios N.T.U.A).

Data analyst at ForthCRS SA (data analysis of the Ferry routes site

openseas.gr).

2017 Researcher at University of the Aegean - Information Management

Lab at UAegean - atlantis-group.

C. OTHER SKILLS

Specification Languages:

CafeOBJ, Maude, Athena

Ksystra Katerina (Ξύστρα Κατερίνα)



Address: Kallistratous 50, 15771 Zografou, Athems

Telephones:

Home: +30 210 7786359 Mobile: +30 6972715620

E-mails:

katksy@central.ntua.gr katerinaksystra@gmail.com

Personal Data: Year of Birth: 1983 Citizenship: Greek

Programming Languages:

HTML, Java

Operational Systems:

Windows XP - Vista - 7 - 10

Desk Applications:

Microsoft Office (Word, PowerPoint, Excel, Publisher), Latex

Drawing Applications:

Adobe Photoshop, GIMP

Database Applications:

Access, SQL (Basic Knowledge of SQL Server 2014 Management Studio and Visual Studio 2015 tools)

Statistical Applications:

R, Minitab, Matlab (Basic Knowledge)

Research project management:

Experience in Research project's preparation, writing, management and coordination.

D. SELECTED PUBLICATIONS

K. Ksystra, N. Triantafyllou, K. Barlas, P. Stefaneas: An Algebraic Specification of Social Networks. SQM 2012: Software quality management, British Computing Society.

Ksystra, K., Triantafyllou, N., Stefaneas, P.: On the Algebraic Semantics of Reactive Rules. 6th International Symposium, RuleML 2012, Springer, (2012) 136--150

Ksystra, K., Stefaneas, P., Frangos, P.: An Algebraic Framework for Modeling of Reactive Rule-Based Intelligent Agents. SOFSEM: Theory and Practice of Computer Science - 40th International Conference on Current Trends in Theory and Practice of Computer Science, LNCS, 407-418 (2014).

Ksystra, K., Triantafyllou, N., Stefaneas, P.: On Verifying Reactive Rules Using Rewriting Logic. RuleML 2014: 67-81

Stefaneas, P., Ouranos, I., Triantafyllou, N., Ksystra, K.: Some Engineering Applications of the OTS/CafeOBJ Method. Specification, Algebra, and Software 2014: 541-559

K. Ksystra, P. Stefaneas, P. Frangos: An algebraic framework for the verification of context-aware adaptive systems. *International Journal of Software Engineering and Knowledge Engineering* 25(7): 1105-1128 (2015

Ksystra, K., Stefaneas, P.: Formal Analysis and Verification Support for Reactive rule-based Web Agents. *International Journal of Web Information Systems*, Vol 12 Issue 4.

Ksystra, K., Triantafyllou, N., Stefaneas, P.: Combining Algebraic Specifications with First-Order Logic via Athena", Algebraic Modeling of Topological and Computational Structures and Applications, THALES, Athens, Greece, July 1-3, 2015, Editors: Lambropoulou, S., Theodorou, D., Stefaneas, P., Kauffman, L.H. (Eds.).

E. DISTINCTIONS

Best Ph.D students paper

K. Ksystra, N. Triantafyllou, K. Barlas and P. Stefaneas, "An Algebraic Specification of

Social Networks", Proceedings Software Quality Management Conference XX, Editors: E. Berki, J. Valtanen, P. Nykanen, M. Ross, G. Staples, K. Systa, British Computer Society Quality SG SQM/INSPIRE Conference, Tampere, Finland pp. 135-146, 2012.

2nd prize

Hackathon in Open data and passenger transport in the Aegean "Blue hackathon/school open source EL/LAK in shipping - transportation - tourism", Organizers: University of the Aegean & EL/LAK (team: island hopping

F. SPOKEN LANGUAGES

English

Level: Very Good

Diploma: First Certificate in English, University of Cambridge

French Level: Basic Diploma: DELF 1

Greek

Native Language

G. PERSONAL SKILLS

Capacity and hard work Ability to meet deadlines Team work Communication skills

H. OTHER INTERESTS

Books, Cinema, Travel

Additional Information: References available upon request