Curriculum Vitae

Spyros T. Halkidis

Personal Information

Place of Birth: Thessaloniki, Greece
Date of Birth: August 27, 1973
Nationality: Greek
Native Language: Greek
Marital Status: Single
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Academic Studies

December 2003- March 2008
Ph.D., Department of Applied Informatics, University of Macedonia, Greece
Thesis Title: "Software Security at Early Stages of the Software Lifecycle"
Grade: Excellent

October1998-October 2000
Interdisciplinary Postgraduate Program in Business Administration, University of Macedonia, Greece
Title: M.B.A.
G.P.A.: 7.83/10

October 1996-July 1998
Department of Computer Science, University of Crete
Title: M.Sc.
G.P.A.: 8.25/10

October 1992-September 1996
Department of Computer Science, University of Crete,
Title: B.Sc.
G.P.A.: 7.73/10

October 1991-September 1992
Freshman, Department of Electrical Engineering, Democritus University of Thrace

June 1991   High School Diploma, Deutsche Schule Thessaloniki
                                   G.P.A. 19.1/20, German Abitur 1.4 (Scale 1.0-6.0 with
                                   1.0 representing excellent)

Work Experience

- Laboratory Teaching Personnel, Computational Methodologies and Operations Research Laboratory, Department of Applied Informatics, University of Macedonia, Greece (October 2017-present)

- Postdoctoral Associate, Computational Systems and Software Engineering Laboratory, Department of Applied Informatics, University of Macedonia, Greece (November 2016- September 2017)

- Postdoctoral Associate, Computational Systems and Software Engineering Laboratory, Department of Applied Informatics, University of Macedonia, Greece (September 2008- January 2015)

- Appointive Informatics High School Teacher (September 2004- September 2017)

- Teaching Fellow, Eastern Macedonia and Thrace Institute of Technology, Academic Years 2008-2009 and 2010-2011

- Software Engineer, Metropolis Informatics S.A. (December 2000-September 2003)

- Postgraduate Scholar, Computational Vision and Robotics Laboratory, Institute of Computer Science, Foundation for Research and Technology Hellas, ICS-FORTH (June 1997-July 1998)

- Postgraduate Scholar, Computational Medicine Laboratory, Institute of Computer Science, Foundation for Research and Technology Hellas, ICS-FORTH (October 1996-May 1997)

- Undergraduate Scholar, Computational Medicine Laboratory, Institute of Computer Science, Foundation for Research and Technology Hellas, ICS-FORTH (July 1995- September 1996)

Co-supervised Theses

a) Diploma Theses

Eleni-Georgia Kapodistria, "Development of Safe Code, Finding Security Problems", Department of Applied Informatics, University of Macedonia, Greece, 2006

Anastasia Ioannidou, "Study and Implementation of Methods for Image Steganography", Department of Applied Informatics, University of Macedonia, Greece, 2010

Ioanna Karantaidou, "Pairing Based Cryptography and a Feasibility Study on the IoT", Department of Applied Informatics, University of Macedonia, Greece, 2018

b) M.Sc. Theses

Georgios Psikakos, "Software Intrusion Detection Techniques",
Department of Applied Informatics, University of Macedonia, Greece, 2007

Dimitrios G. Papachristoudis, "Lattice Basis Reduction",
Department of Applied Informatics, University of Macedonia, Greece, 2014

Publications Citations: 871, h-index: 8, Source: Harzing's Publish or Perish

- M.I.A. Lourakis, S. T. Halkidis and S.C. Orphanoudakis, "Matching disparate views of planar surfaces using projective invariants", *Image and Vision Computing,* 18 (2000), pp. 673-683 Extended version of:

- M.I.A. Lourakis, S.T. Halkidis and S.C. Orphanoudakis, "Planar Feature Matching through the use of Projective Invariants", *in Proceedings of BMVC '98* (87 References in total)

- M.I.A. Lourakis, S.T. Halkidis and S.C. Orphanoudakis, "Robust Matching of Coplanar Point and Line Features", *in Proceedings of CVMR '98*

- Spyros T. Halkidis, Alexander Chatzigeorgiou and George Stephanides, "A Qualitative Evaluation of Security Patterns", Sixth International Conference on Information and Communications Security, (ICICS '04), LNCS 3269 (40 References)

- S. T. Halkidis, A. Chatzigeorgiou and G. Stephanides, "A Qualitative Analysis of Software Security Patterns", Computers & Security (Elsevier), vol. 25(5), pp. 379-392 (40 References)

- N. Tsantalis, A. Chatzigeorgiou, G. Stephanides, S. T. Halkidis, "Design Pattern Detection using Similarity Scoring", IEEE Transactions on Software Engineering, vol. 32(11), November 2006, pp. 896-909 (475 References)

- S. Halkidis, A. Chatzigeorgiou, G. Stephanides, "An Approach to the Specification of Software Security Patterns", In Proceedings of AIDC'2005, Craiova, Romania

- N. Tsantalis, A. Chatzigeorgiou, S. T. Halkidis, G. Stephanides, "A Novel Approach to Automated Design Pattern Detection", Panhellenic Conference on Informatics, 2005 (4 References)

- S. T. Halkidis, A. Chatzigeorgiou and G. Stephanides, "Quantitative Evaluation of Systems with Security Patterns using a Fuzzy Approach", First International Workshop on Information Security (IS'06), Montpellier, France, LNCS 4277 (15 References)

- S. T. Halkidis, A. Chatzigeorgiou and G. Stephanides, "A Practical Evaluation of Security Patterns", In Proceedings of AIDC'2006, Thessaloniki (11 References)

- K. Chalkias, S. T. Halkidis, D. Hristu-Varsakelis, G. Stephanides and A. Alexiadis, "A Provably Secure One-Pass Two-Party Key Establishment Protocol", In 3rd International SKLOIS Conference on Information Security and Cryptology (Inscrypt

2007), Xining, China, Springer- Verlag, August 31 - September 5, 2007 (8 References)

- S. T. Halkidis, N. Tsantalis, A. Chatzigeorgiou and G. Stephanides, "Architectural Risk Analysis Based on Security Patterns", IEEE Transactions on Dependable and Secure Computing, Vol. 5(3), pp. 129-142, 2008 (95 References)

- S. T. Halkidis, A. Chatzigeorgiou and G. Stephanides, "Moving from Requirements to Design Confronting Security Issues: A Case Study", IS 2009, Vilamoura, Portugal, LNCS 5871 (4 References)

- K. Chalkias, F. Baldimtsi, D. Hristu-Varsakelis, S. Halkidis, G. Stephanides, "Attacks on the AKACP protocol", IACR Cryptology Eprint Archive, 2010/500, 2010 (1 Reference)

- A. Ioannidou, S. T. Halkidis, G. Stephanides, "A Novel Technique for Image Steganography Based on a High Payload Method and Edge Detection", Expert Systems with Applications (Elsevier), Vol. 39(14), 2012 (86 References)

- K. Tsarava, S.T. Halkidis, P. Venardos and G. Stephanides, "Teaching Basic Calculus Using SAGE", Book chapter of "Strategic Role of Tertiary Education and Technologies for Sustainable Competitive Advantage", pp. 276-294 IGI Global, June 2013 (1 Reference)

- S. T. Halkidis, A. Chatzigeorgiou and G. Stephanides, "Brief Review of Software Security History with an Emphasis on Efforts Focused at Early Stages of the Software Lifecycle", Journal of Information Privacy and Security, 10:1, 3-27, DOI: 10.1080/15536548.2014.912481, 2014

- D. G. Papachristoudis, S. T. Halkidis and G. Stephanides, "An Experimental Comparison of Some LLL-type Lattice Basis Reduction Algorithms", in International Journal of Applied and Computational Mathematics, 1:3, pp. 327-342, Springer-Verlag, 2015 (1 Reference)

- I. Karantaidou, S. T. Halkidis, S. G. Petridou, L. Mamatas and G. Stephanides "Pairing Based Cryptography on the Internet of Things: A Feasibility Study", in Proceedings of 6th IFIP WG 6.2 International Conference, WWIC 2018, Boston, MA, USA, June 18–20, 2018 (1 Reference)

- S. T. Halkidis, D. Hristu-Varsakelis and N. Samaras "Privacy-Preserving Decision Trees in a Multi-Party Setting: a Level-Based Approach", submitted to International Journal of Information Security and Applications.

Presentations

- Spyros Halkidis, Planar Feature Mathing through the Combination of Geometric and Photometric Information 4th VIRGO TMR Network Meeting, 2-3 February 1998, INRIA Sophia Antipolis, France

- Spyros T. Halkidis, "Software Security: From the Early Efforts of the Late 90's Until Today", BIT's 2nd Annual World Congress of Emerging Infotech-2013, June 20-22, 2013, World Expo Center, Dalian, China

Reviewer

- IEEE Transactions on Dependable and Secure Computing: 2006
- International Journal of Computer Mathematics: 2011, 2012
- Computers in Human Behavior (Elsevier): 2013, 2014, 2015, 2016
- Journal of Web Engineering: 2013, 2014, 2015
- 17th Panhellenic Conference on Informatics: 2013
- Journal of Information Privacy and Security: 2013
- Expert Systems with Applications (Elsevier): 2014, 2015, 2016, 2018
- Journal of Software Engineering and Applications: 2014
- 6th International Conference on Computer and Communication Technology, ICCCT 2015: 2015
- Journal of Korean Society for Industrial and Applied Mathematics: 2016
- Applied Computing and Informatics (Elsevier): 2016
- International Journal of Communications, Network and System Sciences: 2017
- Journal of Systems and Software (Elsevier): 2017, 2018
- Recent Patents in Computer Science: 2017, 2018, 2019
- IET Image Processing: 2017, 2018
- International Journal of Communication Systems: 2018
- IET Software: 2019
- SOFSEM 2020

Foreign Languages

- German, Title: Mittelstufe
- English, Title: Michigan Proficiency