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CURRENT POSITION

Lecturer, National Technical University of Athens, Greece

Algorithmic Applications and Logic Laboratory

Coordinator of the Formal Methods and Logic Group

RESEARCH INTERESTS

Applications of logic in computer science. Formal Methods. Algebraic Specifications. Proof and Rules over the Web. Computational creativity. Philosophy of computer science. Social and ethical sides of computation.

PUBLICATIONS

COLLECTED VOLUME

1. L. Morgenstern, P. Stefaneas, F. Levy, A. Wyner, A. Paschke (Eds.), "Theory, Practice, and Applications of Rules on the Web - 7th International Symposium, RuleML 2013", Seattle, WA, USA, July 11-13, 2013. Proceedings. Lecture Notes in Computer Science 8035, Springer 2013.

JOURNAL PAPERS

1. N. Angius and P. Stefaneas, "The Logical Structure of Modular Semantic Theories of Software Systems" [submitted].
2. K. Barlas, E. Berki, P. Stefaneas and G. Koletsos, "Formal Specification of Open Standards and the Case of RSS" [submitted].
3. K. Ksystra, P. Stefaneas and P. Frangos, "An Algebraic Approach for the Verification of Context-Aware Adoptive Systems", *International Journal of Software Engineering and Knowledge Engineering, World Scientific*, May 2015 [to appear].
4. I. Ouranos, K. Ogata and P. Stefaneas, "TESLA source authentication protocol verification experiment in the Timed OTS/CafeOBJ method: Experiences and Lessons Learned". *IEICE Transactions*, 97-D(5): 1160-1170, Oxford 2014.
5. P. Stefaneas and I. Vandoulakis, "Proofs as spatio-temporal processes" *Philosophia Scientiae*, pp. 111-128, 19(1), 2014.
6. A. Malamou, C. Pandis, P. Frangos, P. Stefaneas, A. Karakasiliotis and D. Kodokostas, "Application of the Modified Signature Method for Terrain Classification from Synthetic Aperture Radar Images" *ELEKTRONIKA IR ELEKTROTECHNIKA*, ISSN 1392-1215, VOL. 20, NO. 6, 2014.

7. P. Tsiavos, P. Stefaneas, and T. Karounos, "The Transposition of European Union Open Data/Public Sector Information Policies in Greece: A Critical Analysis". *Policy & Internet*, Vol. 5, No. 4, pp 402-418, Wiley 2013.
8. N. Triantafyllou, P. Stefaneas and P. Frangos, "An Algorithm for Allocating User Requests to Licenses in the OMA DRM System". *IEICE Transactions* 96-D (6): 1258-1267, Oxford 2013.
9. N. Triantafyllou, K. Ksystra, P. Stefaneas and P. Frangos, "Proof Carrying Code using Algebraic Specifications", *Journal of Applied Mathematics & Bioinformatics*, vol.3, no.1, pp. 43-56, 2013.
10. P. Stefaneas and I. Vandoulakis, "The Web as a tool for proving". *Metaphilosophy Journal*, 43 (4):480-498, Wiley-Blackwell, 2012.
11. K. Barlas, G. Koletsos, P. Stefaneas and I. Ouranos, "Towards a correct Translation from ASN.1 into CafeOBJ", Special Issue on Innovations in Intelligent Systems and Applications of the *International Journal of Reasoning-based Intelligent Systems (IJRIS)* Volume 2, n. 3-4, pp 300-309, 2010.
12. I. Ouranos, P. Stefaneas and P. Frangos, "An Algebraic Framework for Modeling of Mobile Systems". *IEICE Transactions* 90-A(9): 1986-1999, Oxford, 2007.
13. R. Diaconescu and P. Stefaneas, "Ultraproducts and possible worlds semantics in institutions". *Theoretical Computer Science* 379 no 1-2, 210-230. Elsevier, 2007.
14. R. Diaconescu and P. Stefaneas, "Modalities in Open Institutions with Concrete Syntax" *Bulletin of the Greek Mathematical Society*, Vol. 49, pp. 89-99, 2004.
15. C. Georgiou and P. Stefaneas, "Strategies for Accelerating the Worldwide Adoption of e-Commerce", *Communications of the ACM*, Vol.45 No. 4ve pp. 145-151, 2002.
16. P. Stefaneas, "Chartering second order logic". *Romanian Academy- Journal of Information Science and Technology*, Volume 3, Number 2, p.p. 157 – 172, 2000.
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2. P. Stefaneas, I. Vandoulakis, H. Foundalis and M. Martinez, "Collective Discovery Events: Web-Based Mathematical problem-solving with Codelets", *Computational Creativity Research: Creative Machines*. Tarek R. Besold, Marco Schorlemmer, Alan Smaill (eds.) pp. 371-372. Atlantis Press, Springer 2015 (forthcoming, extended version of [23]).
3. N. Triantafyllou, K. Ksystra, P. Stefaneas, A. Kalampakas "Towards Formal Representation and Comparison of Video Content Using Algebraic Semiotics". *Proceedings SMAP*, Corfu 6-7 November 2014, pp. 48-53, IEEE 2014.
4. K. Ksystra, N. Triantafyllou and P. Stefaneas, "On Verifying Reactive Rules Using Rewriting Logic". *Proceedings RuleML 2014*. Antonis Bikakis, Paul Fodor, Dumitru Roman (Eds.): Rules on the Web. From Theory to Applications - 8th International Symposium, RuleML 2014, Co-located with the 21st European Conference on Artificial Intelligence, ECAI 2014, Prague, Czech Republic, August 18-20, 2014, pp 67-81, Proceedings. LNCS Springer 2014.

5. N. Triantafyllou, K. Ksystra and P. Stefaneas, "On the Algebraic Specification and Verification of Parallel Systems" T. Margaria and B. Steffen (eds): *Proceedings IsoLa 2014*, Part II, LNCS 8803, pp. 623-624, Springer 2014.
6. N. Triantafyllou, K. Ksystra and P. Stefaneas, "The picture hyperoperation" *Proceedings 12th AHA* (Algebraic Hyperstructures Association) Conference, Xanthi, Greece, Sept. 2014 (to appear).
7. C. Mamakos, P. Stefaneas, M. Dimarogkona and J. Paine, "Polytropos project: Experiments in Blending" *Proceedings 3rd International Workshop on Computational Creativity, Concept Invention and General Intelligence (C3GI)* – European Conference on Artificial Intelligence, Prague, Czech Republic, Eds: T. Besold, K.-U. Kühnberger, M. Schorlemmer & A. Smaill University of Osnabruk, Publications of the Institute of Cognitive Science, vol. 1, pp. 61-66 August 2014.
8. K. Ksystra, P. Stefaneas, and P. Frangos, "An Algebraic Framework for Modeling of Reactive Rule-based Intelligent Agents". *Proceedings 40th International Conference on Current Trends in Theory and Practice of Computer Science, SOFSEM*, January 25-30, 2014 Nový Smokovec, High Tatras, Slovakia. Viliam Geffert, Bart Preneel, Branislav Rován, Julius Stuller, A Min Tjoa (Eds). Lecture Notes in Computer Science .Springer 2014.
9. P. Stefaneas, I. Ouranos, N. Triantafyllou and K. Ksystra, "Some Engineering Applications of the OTS/CafeOBJ Method". *Specification, Algebra, and Software. A Festschrift Symposium in Honor of Kokichi Futatsugi (SAS 2014) 2014 Kanazawa, Japan.* eds: S. Iida, J. Meseguer, K. Ogata, pp. 541-559, Springer LNCS Festschrift 2014.
10. I. Ouranos and P. Stefaneas. "Towards a Protocol Algebra Based on Algebraic Specifications". Software Engineering Research, Management and Applications, Roger Y. Lee (Ed.) [selected papers from the 11th International Conference on Software Engineering Research, Management and Applications, *SERA 2013*, Prague, Czech Republic, August 7-9, 2013]. pp. 85-98. *Studies in Computational Intelligence*. Springer 2014.
11. A. Malamou, C. Pandis, A. Karakasiliotis, P. Stefaneas, E. Kallitsis and P. Frangos, "SAR Imaging: An auto-focusing method for improving image quality and MFS image classification technique" in "Applications of Mathematics and Informatics in Science and Engineering", *Springer Optimization and its applications (SOIA)* Volume 91, pp 199-215, Springer 2014.
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13. M. Dimarogkona and P. Stefaneas, "Semantic Networks and the Theory of Institutions". Algebra and Model Theory 9. Collection of papers eds.: A.G.Pinus, K.N.Ponometryov, S.V.Sudoplatov, and E.I.Timoshenko. Novosibirsk: NSTU. - P. 8-18, 2013.
14. I. Vandoulakis and P. Stefaneas, "Conceptions of proof in mathematics". *Proceedings of the Moscow Seminar on Philosophy of Mathematics*. In: Доказательство. Очевидность, достоверность и убедительность в математике. [Proof. Evidence, reliability and convincingness], Edition: Труды Московского семинара по философии математики, Publisher: URSS, Moscow, Editors: В.А. Бажанов, А.Н. Кричевец, В.А. Шапошников, [Bazhanov V.A., Krichevech A.N., Shaposhnikov V.A.] pp. 256-281, 2013.
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- (International Society for the Interdisciplinary Study of Symmetry), Special issue [1-4] of the Journal *Symmetry: Art and Science*. International Society for the Interdisciplinary Study of Symmetry. Budapest and Melbourne. pp. 230-235, 2013.
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 18. I. Ouranos, K. Ogata and P. Stefaneas, "Formal Analysis of TESLA Protocol in the Timed OTS/CafeOBJ Method". *Proceedings ISoLA (2) 2012*: 126-142. Tiziana Margaria, Bernhard Steffen (Eds.): Leveraging Applications of Formal Methods, Verification and Validation. Applications and Case Studies - 5th International Symposium, ISoLA 2012, Heraklion, Crete, October 15-18, 2012, Part II. Lecture Notes in Computer Science. Springer 2012.
 19. K. Ksytra, N. Triantafyllou and P. Stefaneas, "On the Algebraic Semantics of Reactive Rules". *Proceedings RuleML 2012*. Antonis Bikakis, Adrian Giurca (Eds.): Rules on the Web: Research and Applications - 6th International Symposium, RuleML 2012, Montpellier, France, August 27-29, 2012. pp. 136-150, Lecture Notes in Computer Science. Springer 2012.
 20. K. Ksytra, N. Triantafyllou, P. Stefaneas and P. Frangos, "Semantic Web and Algebraic Reasoning: Some First Applications Using Behavioral Specifications". *Proceedings SMAP 2012*: 81-86. Seventh International Workshop on Semantic and Social Media Adaptation and Personalization, SMAP 2012, Luxembourg City, Luxembourg, December 3-4, 2012. IEEE 2012.
 21. M. Vafopoulos, P. Stefaneas, I. Anagnostopoulos and K. O'Hara: A methodology for internal Web ethics. In *WWW2012, PhiloWeb 2012*. Proceedings of the WWW 2012 conference workshop PhiloWeb 2012: "Web and Philosophy, Why and What For?" Lyon, France, Apr 17, 2012. Edited by Alexandre Monnin, Harry Halpin and Leslie Car. pp 1-9.
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 23. K. Ksytra, 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.
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 30. Prodromos Tsiavos and Petros S. Stefaneas, “Hybrid Models for Open Digital Archives: Necessity?” *Proceedings Forth International Seminar on Information Law ICIL 2011* Thessaloniki 2011.
 31. I. Ouranos, P. Stefaneas, and K. Ogata, “Formal Modelling and Veification of Sensor Network Encryption Protocol in the OTS/CafeOBJ Method” T. Margaria and B. Steffen (Eds): *Proceedings ISoLA 2010*, Part I, LNCS 6415, pp.75-89, 2010, Springer-Verlag Berlin Heidelberg 2010.
 32. P. Stefaneas, “Internet Based Open Governance: the case of Greece”, *Internet, Politics, Policy 2010: An Impact Assessment*, Oxford Internet Institute, September 2010 (poster and short paper).
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 35. P. Stefaneas, “On Formal Methodologies for Computer Supported Computer Ethics”. In M. Botti ed. *Proceedings Third International Seminar on Information Law 2010 - An Information Law for the 21st Century*, pp. 485-489, Nomiki Vivliothiki, 2011.
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 38. N. Triantafyllou, I. Ouranos and P. Stefaneas, “Algebraic Specifications for OMA REL Licenses”, *5th IEEE International Conference on Wireless and Mobile Computing, Networking and Communications, WIMOB 2009*, *Proceedings*, IEEE Computer Society, pp 376 – 381, Marrakech 2009.
 39. P. Stefaneas and R. Diaconescu, “On Institutions and their methodological implications”, *Proc. 7th Panhellenic Logic Symposium*, pp 173-178, Patras 2009.
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62. K. Arkoudas, K. Ksytra, N. Triantafyllou and P. Stefaneas, “Integrating Athena with Algebraic Specifications” Preliminary Proceedings 22nd WADT, International Workshop on Algebraic Development Techniques, 4-7 September 2014, in memoriam of Joseph Goguen, Sinaia, Romania, Technical Report Simion Stoilow Institute of Mathematics, Romanian Academy, eds R. Diaconescu, M. Codescu, I Tutu. pp 12-13, Sinaia 2014.
63. Y. Kiouvrekis and P. Stefaneas, “Fixed Point Logics as Institutions” Preliminary Proceedings 22nd WADT, International Workshop on Algebraic Development Techniques, 4-7 September 2014, in memoriam of Joseph Goguen, Sinaia, Romania, Technical Report Simion Stoilow Institute of Mathematics, Romanian Academy, eds R. Diaconescu, M. Codescu, I Tutu. pp 70-71, Sinaia 2014.
64. P. Stefaneas, “Why Logic and Utopia?” Workshop “Logic and Utopia”, Andros 2014 (Opening as organizer). [to be expanded as full paper]
65. P. Stefaneas, “On the Logical Semantics of Computer Ethics”, International Conference on Information Law (ICIL) 30-31 May 2014, Salonika (Thessaloniki), Greece. [to be expanded as full paper]
66. M. Dimarogkona and P. Stefaneas “Towards a Formal Model of the Semiotic Web”, 4th International Symposium on the Web and Philosophy, Co-located at ICIL, 31 May 2014, Salonika (Thessaloniki), Greece. [to be expanded as full paper]
67. M. Dimarogkona and P. Stefaneas “Syntax, Semantics and the Formalisation of Social Science Theories”, Workshop on Scientific Discovery in the Social Sciences, Centre of Philosophy of Natural and Social Sciences, London School of Economics, London 2015 (Keynote). [to be expanded as full paper]
68. P. Stefaneas, P. Tsiavos and T. Karounos, “Failed Policies or Politics of Failure? The case of crowdsourcing initiatives in the Greek Public Administration as an instance. Oxford Internet Institute. Crowdsourcing for Politics and Policy, 25-26 September 2014, Oxford. [to be expanded as full paper]
69. P. Stefaneas and I. Vandoulakis, “The Web as a tool for proving”. The Second International Symposium on the Web and Philosophy, Co-located at Philosophy and Theory of AI Conference (PT-AI), Salonika (Thessaloniki), Greece, October 2011,
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