PETROS STEFANEAS

National Technical University of Athens (NTUA), Greece.

Department of Mathematics, School of Applied Mathematical and Physical Sciences.

Laboratory of Algorithmic Applications and Logic.

Coordinator of the Group of Logic and Formal Methods (http://fsvg.math.ntua.gr/)

Assistant Professor

Homepage: http://www.math.ntua.gr/~petros/

RESEARCH INTERESTS

Applications of logic in computer science. Formal Methods and Applications. Algebraic Specifications. Computational Creativity. Philosophy of computer science.

PUBLICATIONS

COLLECTED VOLUMES

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.
2. S. Lampropoulou, P. Stefaneas, D. Theodorou, L. Kauffman (Eds.), "Algebraic Modeling of Topological and Computational Structures and Applications" [in progress], Springer 2017.

JOURNAL PAPERS (UNDER REVIEW)

1. N. Triantafyllou and P. Stefaneas, "Cafe2JML: Integrating Behavioral Algebraic Specifications with Design by Contract"

JOURNAL PAPERS (ACCEPTED OR PUBLISHED)

2. K. Barlas, E. Berki, P. Stefaneas and G. Koletsos, "Towards formal open standards: formalizing a standard's requirements" [accepted for publication at the *Innovations in Systems and Software Engineering, A NASA Journal,* Springer]

3. N. Angius and P. Stefaneas, "The Logical Structure of Modular Semantic Theories of Software Systems" [accepted for publication]

4. K. Ksystra and P. Stefaneas, "Formal analysis and verification for reactive rule-based Web agents". *International Journal of Web Information Systems* 12(4): 418-447, 2016.

5. M. C. Fernandes, A. Alencar, E. Schmitz, M. da Silva and P. Stefaneas, "Evaluation of Agile Software Projects in the Public Sector: A literature review". *Journal of Software* 11(3): 312-325, 2016.

6. C. Mamakos and P. Stefaneas, "Conciousness reframed" *Technonoetic Arts*, Vol 14(3): 169-176, Intellect Journals, 2016.

7. K. Ksystra, P. Stefaneas and 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, World Scientific 2015.

8. P. Stefaneas and I. Vandoulakis, "On Mathematical Proving". *Journal Artificial General Intelligence* 6(1): 130-149, 2015.

9. M. de Faria, E. A. Schmitz, A. Alencar, M. F da Silva and P. Stefaneas, "Analyzing IT Governance Initiatives with Game Theory: A Literature Review". *Journal of Software* 10(9): 1056-1069, 2015.

10. Y. Kiouvrekis and P. Stefaneas, "Topological Semantics in Institutions with Proofs" *Algebra and Model Theory* 10. Collection of papers eds.: A.G. Pinus, K.N. Ponomaryov, S.V. Sudoplatov, and E.I. Timoshenko.. pp 92-100, Novosibirsk: NSTU 2015.

11. 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.

12. P.. Stefaneas and I. Vandoulakis, "Proofs as spatio-temporal processes" *Philosophia Scientiae*, pp. 111-128, 19(1), 2014.

13. 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.

14. 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.

15. I. Vandoulakis and P. Stefaneas, "Proof events in History of Mathematics", Ganita Brahati, *Bulletin of the Indian Society for History of Mathematics*, Vol 35, No 1-2, pp 119-157, MD Publication New Delhi 2013.

16. 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.

17. 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.

18. 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. Ponomaryov, S.V. Sudoplatov, and E.I. Timoshenko. Novosibirsk: NSTU. pp. 8-18, 2013.

19. P. Stefaneas and I. Vandoulakis, "The Web as a tool for proving". *Metaphilosophy Journal*, 43 (4):480-498, Wiley-Blackwell, 2012.

20. 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.

21. I. Ouranos, P. Stefaneas and P. Frangos, "An Algebraic Framework for Modeling of Mobile Systems". *IEICE Transactions* 90-A(9): 1986-1999, Oxford, 2007.

22. R. Diaconescu and P. Stefaneas, "Ultraproducts and possible worlds semantics in institutions". *Theoretical Computer Science* 379 no 1-2, 210-230. Elsevier, 2007.

23. R. Diaconescu and P. Stefaneas, "Modalities in Open Institutions with Concrete Syntax" *Bulletin of the Greek Mathematical Society*, Vol. 49, pp. 89-99, 2004.

24. 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.

25. P. Stefaneas, "Chartering second order logic". *Romanian Academy- Journal of Information Science and Technology,* Volume 3, Number 2, p.p. 157 – 172, 2000.

26. P. Stefaneas, Chartering modal logic, *An. Univ. Buc. Mathematics Informatics* 48, no. 1 89 – 100, 1999.

27. P. Stefaneas Chartering first order logic. *An. Univ. Buc. Mathematics Informatics* 4**7** no. 1, 13 – 28, 1998.

28. P. Stefaneas, "A note on Eisenstein's criterion". *Bull. Greek Math. Soc.* no 37 97 – 101, 1995.

PAPERS IN CONFERENCES OR COLLECTED VOLUMES UNDER REVIEW

1. M. Dimarogkona and P. Stefaneas, "Syntax, Semantics and the Formalization of Social Science Theories".
2. K. Ksystra, N. Triantafyllou and P. Stefaneas, "Integrating Athena with Algebraic Specifications".
3. T. Mitsikas, P. Stefaneas, and I. Ouranos, "A rule-based approach for air traffic control in the vicinity of the airport"
4. S. V. Sudoplatov, Y. Kiouvrekis and P. Stefaneas, "Generic constructions and generic limits"
5. N. Angius, M. Dimarogkona and P. Stefaneas, "Building and Integrating Semantic theories over Institutions"
6. A. Kalampakas, N. Triantafyllou, K. Ksystra and P. Stefaneas "A Formal Representation of Video Content with the Picture Hyperoperation"

PAPERS IN CONFERENCES OR VOLUMES

7. A. J. Alencar, M. P. Bastos, E. A. Schmitz, M. F. da Silva and P. Stefaneas, "Maximizing the Return on Investment in Big-Data Projects: An Approach Based upon the Incremental Funding of Project Development" in Big Data Management and Processing, Taylor and Francis (forthcoming).
8. N. Angius and P. Stefaneas, "Discovering Empirical Theories of Modular Software Systems. An Algebraic approach". Müller, Vincent C. (ed.) *Computing and Philosophy: Proceedings of IACAP 2014*, pp. 99-115 Synthese Library, Springer: Berlin 2016.
9. I. Vandoulakis and P. Stefaneas, "Mathematical Proving as multi agent spatio-temporal activity" Boris Chendov (ed.) *Modeling, Logical and Philosophical Aspects of Foundations of Science*, Proceedings of the round table on "Methodology of Mathematical Modeling and of Applications of Logical Systems in Scientific Knowledge", 23rd World Conference on Philosophy (Athens, 2013), Vol 1, pp. 1-14, LAP LAMBERT Academic Publishing 2016.
10. P. Stefaneas and I. Vandoulakis, "On Mathematical Style and its Communicative Functions", Proceedings C3GI, Unilog 2015, Publications of the Institute of Cognitive Science, Osnabruck University, pp. 70-80, Volume 2 - 2015.
11. 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 (extended version of [27]).

12. 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.

13. K. Ksystra, N. Triantafyllou and P. Stefaneas, "On Verifying Reactive Rules Using Rewriting Logic". *Proceedings RuleML 2014*. A. Bikakis, P. Fodor, D. 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.

14. 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.

15. A. Kalambakas, N. Triantafyllou, K. Ksystra and P. Stefaneas, "The picture hyperoperation" *Proceedings 12th AHA* (Algebraic Hyperstructures Association) Conference, Xanthi, Greece, Sept. 2014. [to appear]

16. 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.

17. 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. V. Geffert, B. Preneel, B. Rovan, J. Stuller, A Min Tjoa (Eds). Lecture Notes in Computer Science .Springer 2014.

18. 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.

19. 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.

20. 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.

21. A. Malamou, C. Pandis, P. Frangos and P. Stefaneas, "SAR Image terrain classification using the MFS method" *Proceedings Conference on Communications, Electromagnetics and Medical Applications (CEMA),* 16-18th October 2014. pp 1-5, D. Dimitrov (Ed.) Technical University of Sofia, Bulgaria.

22. K. Barlas, E. Berki, I. Adomnita, T. Nalam, G. S. Nejad, J. Veijalainen, P. Stefaneas and G. Koletsos. "Formal Specification of Open Standards and the Case of RSS v2.0" Proceeding PCI '14 Proceedings of the 18th Panhellenic Conference on Informatics, pp 1-6 Athens, Greece, 2014.

23. I. Vandoulakis and P. Stefaneas, "Conceptions of proof in mathematics". *Proceedings of the Moscow Seminar on Philosophy of Mathematics*. In Proof. Evidence, reliability and convincingness, URSS, Moscow, Bazhanov V.A., Krichevech A.N., Shaposhnikov V.A. (Ed.) pp. 256-281, 2013.

24. A. Malamou, C. Pandis, A. Karakasiliotis, P. Stefaneas, D. Kodokostas and P. Frangos, "Application of an Autofocusing Algorithm for SAR Image Quality Improvement and Application of the Modified Fractal Signature (MFS) Method for SAR Image Classification for the case of Real Radar Data', *Proceedings CEMA'13 Conference*, Technical University of Sofia, Bulgaria, October 2013. D. Dimitrov (Ed.), pp. 108 − 111, KING, Sofia, 2013.

25. C. Mamakos and P. Stefaneas, "Polytropos project: a mechanism for new media". Proceedings of the 9th Interdisciplinary Symmetry Congress-Festival of ISIS-Symmetry (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.

26. K. Theologou and P. Stefaneas, "Digital symmetries of the web and postmodern identities". Proceedings of the 9th Interdisciplinary Symmetry Congress-Festival of ISIS-Symmetry (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. 322-325, 2013.

27. I. Ouranos, K. Ogata and P. Stefaneas, "Formal Analysis of TESLA Protocol in the Timed OTS/CafeOBJ Method". *Proceedings ISoLA (2) 2012*: 126-142. T. Margaria, B. 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.

28. K. Ksystra, N. Triantafyllou and P. Stefaneas, "On the Algebraic Semantics of Reactive Rules". *Proceedings RuleML 2012*. A. Bikakis, A. 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.

29. K. Ksystra, 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.

30. 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 A. Monnin, H. Halpin and L. Car. pp 1-9.

31. C. Pandis, A. Malamou, P. Stefaneas and P. Frangos, 'Applying the modified fractal signature method to image classification : some preliminary results for ISAR radar images', *Proceedings CEMA'12* International Conference, National Technical University of Athens (NTUA), Athens, Greece, 8 - 10/11/2012. CEMA'12, Athens : Edit. Co. KING 2001, Sofia, ISSN : 1314-2100. Responsible for the edition : Prof. D. Dimitrov, pp. 50 - 52.

32. 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 [best student paper].

33. P. Stefaneas, I. Vandoulakis, H. Foundalis and M. Martinez, "Web-Based Mathematical problem-solving with Codelets", *Proceeding of the Workshop "Computational Creativity, Concept Invention, and General Intelligence (C3GI)* ECAI-2012, Montpellier, France, August 27, 2012. T. R. Besold, K.-U. Kuhnberger, M. Schorlemmer, A. Smaill (eds.). pp. 41-44. Publications of the Institute of Cognitive Science, Volume 1 – 2012. Osnabruck, Germany, 2012.

34. K. Barlas, P. Stefaneas and G. Koletsos, Extending standards with formal methods: Open Document Architecture, *Proceedings INISTA 2012*. 2-4 July Trabzon, Turkey, pp. 1– 5, 2012 IEEE Conference Publications.

35. P. Tsiavos, P. Stefaneas and T. Karounos, Financial Crisis and The Promised Land of Open Data. 'IPP2012: Big Data' Oxford Internet Institute 2012. [A shorter version (abstract) had been accepted at PMOD (Brussels 19-20 June 2012) organized by W3C and JRC-IPTS].

36. I. Pappas and P. Stefaneas, "On legal documents and formal methods". Proceedings of the 5th ICIL 2012 - Equity, Integrity & Beauty in Information Law & Ethics. Corfu 2012. Maria Botti Ed.

37. N. Triantafyllou, K. Ksystra, P. Stefaneas and P. Frangos, "Applying Algebraic specifications to Digital Rights Management Systems", in Andrew V. Jones (Ed.): *Proceedings of the 1ˢᵗ Imperial College Student Workshop* (ICCSW '11), pp. 94–100. September 29th–30ᵗʰ 2011, London UK.

38. P. Stefaneas "On Scientific Theories and Abstract Model Theory" *3ʳᵈ EPSA 2011* (3ʳᵈ Conference of the European Philosophy of Science Association), Athens, 5-8 October 2011. Another version "On Scientific Theories and Institutions", Proceedings 8ᵗʰ Panhellenic Logic Symposium, Ioannina, 4-8 July, 2011.

39. P. Tsiavos and P. Stefaneas, "Hybrid Models for Open Digital Archives: Necessity?" Proceedings *Forth International Seminar on Information Law* ICIL 2011 Thessaloniki 2011. Maria Botti Ed.

40. I. Ouranos, P. Stefaneas, and K. Ogata, "Formal Modelling and Verification 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.

41. N. Triantafyllou, P. Stefaneas, I. Ouranos and P. Frangos, "Formal specification and verification of the OMA License Choice Algorithm in OTS/CAFEOBJ method", R. F. S. Caldeirinha and M. S. Obaidat (Eds.): *Proceedings WINSYS 2010 – International Conference on Wireless Information Networks and Systems*, pp 173 - 180, SciTePress 2010. Also, (after selection) at M.S. Obaidat, G.A. Tsihrintzis, and J. Filipe (Eds.): ICETE 2010, CCIS 222, pp. 424–438, 2011. Springer-Verlag Berlin Heidelberg 2011. [best student paper]

42. K. Ksystra, P. Stefaneas, I. Ouranos and P. Frangos, "A parallel version of the MPEG-2 encoding algorithm formally analyzed using algebraic specifications" G. A. Tsihrintzis, M. Virvou (Eds.): Proceedings *SIGMAP 2010 – International Conference on Signal Processing and Multimedia Applications,* pp 35 − 38, SciTePress 2010.

43. 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.

44. K. Ksystra, P. Stefaneas, N. Triantafyllou and I. Ouranos, "An Algebraic Specification for the MPEG-2 Encoding Algorithm", *Fourth SEE Workshop on Formal Methods,* pp 46-52, IEEE Computer Society CPS, 2009.

45. K. Barlas, G. Koletsos, P. Stefaneas and I. Ouranos, "From ASN.1 into CafeOBJ: Some first steps", *Fourth SEE Workshop on Formal Methods,* pp 66-72, IEEE Computer Society CPS, 2009. Also presented as part of "Towards a correct Translation from ASN.1 into CafeOBJ" *Proceedings International Symposium on Innovations in Intelligent Systems and Applications (INISTA),* pp. 141-145, Trabzon, Turkey, 2009.

46. 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.

47. I. Ouranos and P. Stefaneas, "Verifying Security Protocols for Sensor Networks Using Algebraic Specification Techniques", Proceedings 3rd Conference on Algebraic Informatics, Thessaloniki, *Lecture Notes Computer Science* 4728, pp. 247- 259, Springer 2007.

48. I. Ouranos, P. Stefaneas and P. Frangos, "A Formal Specification Framework for Ad Hoc Mobile Communication Networks". *Proceedings SOFSEM* (2) pp. 91-102, Prague, 2007.

49. I. Ouranos, P. Stefaneas, et. al, "Modelling real time authentication protocols using algebraic specification techniques - the case of TESLA protocol*"*, 23rd IFIP TC 7 Conference on System Modelling and Optimization, Cracow, Poland, July 23-27, 2007.

50. R. Diaconescu and P. Stefaneas, "Abstract Modalities and Institutions", *Proc. CombLog'04, Workshop on Combination of Logics: Theory and Applications*, Lisbon, pp. 159-165, 2004. Also part of "Modalities in Open Institutions with Concrete Syntax", *Proc. 4th Panhellenic Logic Conference*, pp. 85-88, Thessaloniki, 2003.

51. I. Ouranos, P. Stefaneas and P. Frangos, "An Algebraic Specification of Mobile IPv6 Protocol", *Proc. International Conference Principles of Software Engineering (PRISE),* p.p. 131-140, Buenos Aires, Argentina, 2004.

52. I. Ouranos, P. Stefaneas and P. Frangos, "MobileOBJ: A Mobility Approach Using CafeOBJ Algebraic Specification Language"*, Proc. ICNAAM* 2004, pp. 375-378, Wiley Publ, 2004.

53. G. Papas and P. Stefaneas, "Virtual Career Guidance in Education"*, Proc. ED-MEDIA*, AACE, Turku, Finland, p.p. 1442 – 1449, 2001.

54. G. Papas and P. Stefaneas, "Requirements and Management of IT Resources in Education"*, Proc. ED-MEDIA*, AACE, Turku, Finland, p.p. 1450 - 51, 2001.

55. A. Andreatos and P. Stefaneas, "On hierarchically organized networks – an algebraic approach". *Proc. 2ⁿᵈ IMACS International Conference on Circuits, Systems and Computing*. Athens, pp. 128-132, 1998.

56. J. Paine and P. Stefaneas, "Everything is not an object", *Proc. 6ᵗʰ Hellenic Congress in Informatics, Greek Computing Society*, 74, pp. 1-9, 1997.

57. P. Stefaneas, "Chartering First Order Logic", *Proc. 3ʳᵈ International Conference "Developments in Language Theory"*, DLT 1997, Thessaloniki Greece, pp. 579-592, S. Bozapalides (Ed.) Aristotle University of Thessaloniki 1997.

58. T. Karounos and P. Stefaneas, "Managing the Quality of Network Services within an Academic Environment", *Proc. International Conference on Telecommunications (ICT' 98)"*, pp. 399-403, 1998.

59. A. Andreatos and P. Stefaneas, "Applying Category Theory to Computing Networks", *Proc. Workshop on Circuits, Systems and Computing*, pp. 1-5, 1996.

60. P. Stefaneas, "Randomized Specifications", *Proc. 5ᵗʰ Hellenic Congress in Informatics, Greek Computing Society*, pp. 581-588, 1995.

61. P. Stefaneas, "Randomized Computing Logics", *Hellenic European Research on Mathematics and Informatics '94, Proc. HERMES'94*, Greek Mathematical Society, pp. 933-940, 1994.

62. R. Diaconescu, J. Goguen and P. Stefaneas, "Logical support for modularisation". *Logical environments (Editors: G. Huet and G. Plotkin,),* pp. 83-130, *Cambridge Univ. Press, Cambridge,* 1993.

CONFERENCE PRESENTATIONS, POSTERS AND SHORT PAPERS

63. P. Stefaneas, "Views on the concept of correctness in computer science" 4ʳᵈ Panhellenic Philosophy of Science and Technology Conference, December 2016 [Abstract].

64. P. Stefaneas and D. Kouzapas, "Formal Methods on Privacy" *FM-Priv 2016: 1ˢᵗ Workshop on Formal Methods for Privacy, FM 2016 Limassol Cyprus* [Welcome talk].

65. G. V. Pitsiladis and P. Stefaneas, "Implementing Type Checking of π-calculus Processes for Privacy in Maude" *FM-Priv 2016: 1ˢᵗ Workshop on Formal Methods for Privacy,* FM 2016 Limassol Cyprus.

66. N. Triantafyllou, K. Ksystra, P. Stefaneas and P. Kavassalis, "BlockChains, Financial Transactions, and Formal Methods" *FM-Priv 2016: 1ˢᵗ Workshop on Formal Methods for Privacy,* FM 2016 Limassol Cyprus [Abstract, to be extended to a full paper].

67. P. Stefaneas, P. Tsiavos and T. Karounos, "The platform as a mirror: understanding regulatory ecologies through their interaction with mega-platforms" Internet, Policies and Politics (IPP 2016), Oxford Internet Institute [Abstract - to be extended to a full paper].

68. C. Mamakos and P. Stefaneas, "Mind the Gap", ISSC, The Logics of Image: Visualization, Iconicity, Imagination and Human Creativity, Santorini Greece 2016 [Abstract - to be extended to a full paper].

69. P. Stefaneas, "Logics in computer science and the social context", in Logic and Utopia Workshop, ISSC, The Logics of Image: Visualization, Iconicity, Imagination and Human Creativity, Santorini Greece 2016 [Abstract - to be extended to a full paper].

70. M. Dimarogkona and P. Stefaneas, "Styles of Programming", Workshop on Philosophy of Computer Science, International Association for Computing and Philosophy (IACAP) Annual Meeting, June 2016, Ferrara, Italy. [Abstract].

71. M. Dimarogkona and P. Stefaneas, "Computer Ethics and Institutions", 3rd International Conference on Cryptography, Cyber Security and Information Warfare – CryCybIW, May 2016, Athens, Greece. [Abstract] [to be extended to a full paper].

72. Y. Kiouvrekis and P. Stefaneas, "Towards abstract logics for secure communication", 3rd International Conference on Cryptography, Cyber Security and Information Warfare – CryCybIW, May 2016, Athens, Greece. [Abstract] [to be extended to a full paper].

73. N. Angius and P. Stefaneas, "Defending the Semantic View of Theories: A Computer Science Perspective" 15h Congress of Logic, Methodology and Philosophy of Science (CLMPS 2015), Helsinki 3-8 August, 2015. [Abstract].

74. M. Dimarogkona and P. Stefaneas, "On the Theory of Institutions and the Philosophical Significance of Categorical Thinking". 15h Congress of Logic, Methodology and Philosophy of Science (CLMPS 2015), Helsinki 3-8 August, 2015. [Abstract].

75. P. Stefaneas and I. Vandoulakis, "Characterization of the style of mathematical proving by means of Roman Jakobson's communication model" 15h Congress of Logic, Methodology and Philosophy of Science (CLMPS 2015), Helsinki 3-8 August, 2015. [Abstract].

76. N. Angius, M. Dimarogkona and P. Stefaneas, "Building and integrating semantic theories over institutions", THALES (Algebraic Modelling of Topological and Computational Structures) Workshop, July 2015, Athens, Greece. [Abstract]. [to be extended to a full paper].

77. M. Dimarogkona and P. Stefaneas, "Syntax, Semantics and the Formalization 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). [Abstract] [has been extended to a full paper].

78. P. Stefaneas, "Some Open Problems in the Philosophy of Computer Science" 3rd Panhellenic Philosophy of Science and Technology Conference, November 2014 [Abstract].

79. K. Arkoudas, K. Ksystra, 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. [Extended Abstract]

80. 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. [Extended Abstract]

81. P. Stefaneas, "On the Logical Semantics of Computer Ethics", International Conference on Information Law (ICIL) 30-31 May 2014, Salonika (Thessaloniki), Greece. [Abstract]

82. 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]

83. 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. [Extended Abstract]

84. 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. [Abstract]

85. P. Stefaneas and I. Vandoulakis, "Proofs as spatio-temporal processes" 14th CLMPS 2011 Proceedings, edited by P. E. Bour, G. Heinzmann, W. Hodges and P. Schroeder-Heister, 2011. [Abstract]

86. P. Stefaneas, "Proof events in computing", 2nd Romanian Japanese Algebraic Specification Workshop, Sinaia, Romania, 2011. [Invitation]

87. 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]

88. P. Stefaneas, "On the theory of Institutions and Davidson theory of meaning". 1st Panhellenic Philosophy of Science and Technology Conference, Athens, October 2010. [Abstract].

89. A. Andreatos and P. Stefaneas, *"Interactive Educational Television: A Digital Bridge for the Knowledge Gap?" EDEN 2007, Annual Confernce, pp. 146 – 147, Naples, Italy,* 2007. [Abstract].

90. E. Tsalapati, G. Koletsos, P. Stefaneas, The process of proving in School Mathematics, *MICOM*, Paphos, Cyprus, 2006. [Abstract].

91. R. Diaconescu and P. Stefaneas, "Institutions: Methodological Implications". Abstract of papers presented at Logic Colloquium 2005 (July 28-August 3, 2005), Athens, Greece, p. 66. Extended version "On Institutions and their methodological implications", *Proc. 7th Panhellenic Logic Symposium*, pp 173-178, Patras 2009.

92. P. Stefaneas and G. Koletsos, "Towards a conceptual Framework for e-learning: Visual Environments, Signs and Meaning", *Proc. Fourth International Scientific and Technical Conference, Section A*, pp 1-2, "Internet - Education - Science 2004" Vinnytsia, Ukraine, 2004. [Abstract]

93. V. Maglaris, T. Karounos, N. Katsanou and P. Stefaneas. *EU Conference "The Information Society and Telematics Applications: an opportunity for the Mediterranean Third Countries"*, Catania Sicily, 1999. [Abstract]

94. N. Katsanou, P. Stefaneas, C. Aposkitis, T.Karounos and P. Tzounakis, Teleteaching Infrastructure for Higher Education, *Education & Information Society 98, Euromed Working Conference* Morocco 1998. [Abstract]

95. V. Maglaris, T. Karounos, P. Stefaneas, T. Chrissafis, D. Papatriantafyllou, X. Psiakki, *Recent Trends in European Research Networking – the role of Greece as a regional node.* Proc. Euro-Med'98, Nicosia Cyprus, 1998. [Abstract]

96. A. Andreatos and P. Stefaneas, "Teaching Telematics via Telematics", *Proc. NETIES 97* Ancona, 1997. [Abstract]

97. P. Stefaneas, "Chartering Modal Logic", *Workshop on Logic, Domains and Programming Languages*, Darmstadt, Germany, 1994. [Abstract]

PAPERS IN GREEK

1. Π. Στεφανέας "Η ηθική της πληροφορικής και η λογική της", Τόμος «Οι Ανθρωπιστικές Επιστήμες στο Ε.Μ.Π". σελ 89-96. Ε.Μ.Π. Αθήνα 2011.

2. Π. Στεφανέας, "Δύο προσεγγίσεις στην έννοια της απόδειξης", *Signum*, τ.1, σ. 13-23, Πανεπιστημιακές Εκδόσεις ΕΜΠ, Αθήνα 2010.

3. Π. Στεφανέας "Η αυτοματοποίηση των αποδείξεων και ηλεκτρονική επίλυση των προβλημάτων ", *Νεύσις, τ.15*, Αθήνα 2006.

4. Π. Στεφανέας, Ανισότητες στην Κοινωνία της Πληροφορίας, σελ. 23-27, *Πληροφορική,* Σεπτέμβριος 2003.

5. Θ. Καρούνος, Ο. Λάμπρου και Π. Στεφανέας, Οργάνωση και Λειτουργία Κέντρου Διαχείρισης Δικτύων, *Πρακτικά 4ου Συνεδρίου Ελληνικής Εταιρείας Επιχ. Έρευνας*, Σάμος 1998.

6. Π. Στεφανέας και Χ. Γκιώνης, Μέθοδοι Κοινωνικής Έρευνας και Ηλεκτρονικό Εμπόριο, *Πρακτικά 4ου Συνεδρίου Ελληνικής Εταιρείας Επιχ. Έρευνας*, Σάμος 1998.

7. Π. Στεφανέας, Λογικά Συστήματα και Κατηγορίες, *Μαθηματική Επιθεώρηση*, τεύχος 45, σελ. 6-19, 1996.

8. Π. Στεφανέας, Στοιχεία της Θεωρίας των Πολυειδών Αλγεβρών, Παράρτημα Β, στο βιβλίο του Σ.Π. Ζερβού *Καθολική Άλγεβρα*, σελ 413-419. Εκδόσεις Καρδαμίτσας, 1994.

TEXTBOOK

Applications of Logic in Computer Science (with G. Koletsos), Kallipos 2015. [in Greek]

TECHNICAL REPORTS

1. R. Diaconescu and P. Stefaneas, Possible Worlds Semantics in arbitrary Institutions, *Technical Report 7, Institute of Mathematics of the Romanian Academy*, 2003.

2. C. J. Georgiou and P. Stefaneas, Strategies for accelerating the adoption of e-commerce by consumers worldwide, *Research Report RC 21277, IBM Research,* 1998.

3. R. Diaconescu and P. Stefaneas, Categorical Foundations of Modularisation for Multi-paradigm Languages, *Research Report IS-RR-98-0014F, School of Information Science, Japan Advanced Institute of Science and Technology,* 1998.

4. R. Diaconescu and P. Stefaneas, Modality in Open Institutions with Concrete Syntax, *Research Report IS-RR-97-0046F, School of Information Science, Japan Advanced Institute of Science and Technology,* 1997.

5. P. Stefaneas, The Second Order Parchment, *PRG-TR--9-93, Programming Research Group, Oxford University Computing Laboratory*, 14 pp., 1993.

6. P. Stefaneas, Chartering a Logic: An Introduction, Technical Note, Programming Research Group, Oxford University Computing Laboratory, 1993.

7. P. Stefaneas, The First Order Parchment, *PRG-TR--16-92, Programming Research Group, Oxford University Computing Laboratory*, 11 pp., 1992.

8. P. Stefaneas, The Modal Charter, *PRG-TR-29-92, Programming Research Group, Oxford University Computing Laboratory*, 8 pp., 1992.

CITATIONS (including self-citations) – [28/1/2017]

Google Scholar: 458

Publish or Perish: 467

h-index= 8

SUPERVISION AND TEACHING AT NTUA

Member of the supervising committee or co - supervisor for ten (10) Ph.D theses, six (6) M.Sc theses and thirty (30) Diploma theses.

Courses at Graduate level: Formal Methods and Algebraic Specifications, Legal and Ethical aspects of Data Science

Courses at Undergraduate level: Applications of Logic in Computer Science, Mathematical Logic, Discrete Mathematics, Introduction to Programming, Design and development of computing applications, Educational Technologies, History of Mathematics.

RESEARCH PROJECTS (Resent and ongoing)

2016 - :   BE-OPEN: Boosting the Serbian Universities to Open Science, Erasmus+, NTUA Scientific Coordinator.

2016 - :   ICT COST: European Cooperation in Science and Technology EYTYPES, Action CA15123, The European Network on Types for programming and verification (EU TYPES), Greek Representative, MC Member.

2015 - :   ICT COST: European Cooperation in Science and Technology, Action IC1402 Runtime Verification beyond Monitoring (ARVI), Greek Representative, MC Member.

2015 - :   ICT COST: European Cooperation in Science and Technology, Action IC1405 Reversible computation - extending horizons of computing, Greek Representative, MC Member.

2015 - 16 :   ICT COST: European Cooperation in Science and Technology, Action IC1201 Behavioural Types for Reliable Large-Scale Software Systems, Greek Representative, MC Member.

2014 - :   Kallipos: Responsible for the writing of the book "Logic in Computer Science"

2014 - :   CERN & NTUA Collaboration in Informatics Support and Development – Coordinator

2012 - 15:   Thalis Project «Algebraic Modeling of Topological and Computational Structures and Applications, Coordinator of the 3rd Research Group.

2012 - :   ERASMUS+: NTUA coordinator for the agreements with Tampere University, Birmingham City University, University of Sassari, etc.

CONFERENCES AND WORKSHOPS [ORGANIZING/PROGRAM COMMITTEE]

- *11th Panhellenic Logic Symposium, Delphi 2017*
- *Non Classical Logics Track – FLAIRS 30*
- *Erlagol 2017*
- *SETN 2016*
- *FM-Priv 2016: 1st Workshop on Formal Methods for Privacy, FM 2016 Limassol Cyprus (co-organizer)*
- *Symposium "Methodological issues in the Philosophy of Computer Science", IACAP 2016 Ferrara Italy (co-organizer)*
- *ISSC 2016, The Logics of Image*
- *Logic and Utopia, 2016 (co- organizer)*
- *Workshop "Algebraic Modeling for Topological and Computational Structures and Applications", Athens 2015 (co-organizer)*
- *Philosophy of Computer Science Workshop, Uni-Log 2015 (co-organizer)*
- *5th Web and Philosophy, 2015*
- *Uni-Log 2015*
- *RuleML 2015 Challenge*
- *4th Web and Philosophy, 2014 (co-organizer)*
- *IACAP 2014*
- *Logic and Utopia, 2014 (co- organizer)*
- *9th ISIS Congress-Festival, 2013*

- *9th Panhellenic Logic Symposium 2013*
- *C3GI 2012, C3GI 2013, C3GI 2014. C3GI 2015*
- *SMAP 2012, SMAP 2013, SMAP 2014*
- *6th International Symposium RuleML 2012*
- *7th International Symposium RuleML 2013*
- *8th International Symposium RuleML 2014*

REFEREE

Journal of Logic and Computation, IEICE Transactions, Information, Communication and Society, Logica Universalis, Universal Computer Science, Cognitive Computation, Computers and Electrical Engineering, RuleML 2013,RuleML 2014, RuleML 2015, C3GI 2012,C3GI 2013,C3GI 2014, SMAP 2012, SMAP 2013, SMAP 2014, FLAIRS 30.