

Anthony Karageorgos



Professor in **Engineering Intelligent Information Systems and Applications in Wood and Furniture Sector**

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A. RESEARCH INTERESTS¹

Decentralised Intelligence
Intelligent Self-Organising Systems
IoT and Data Analytics
Immersive Reality

B. PROFESSIONAL EXPERIENCE

ACADEMIC POSITIONS

04/21-today: Professor in Engineering Intelligent Systems and Applications in Wood and Furniture Sector , Department of Forestry, Wood Sciences, and Design, School of Technology, University of Thessaly, Greece.
01/19-03/21: Associate Professor in Engineering Intelligent Systems and Applications in Wood and Furniture Sector , Department of Forestry, Wood Sciences, and Design, School of Technology, University of Thessaly, Greece.
05/16-12/18: Associate Professor in Engineering Intelligent Systems and Applications in Wood and Furniture Sector Dept. of Wood and Furniture Design and Technology, TEI of Thessaly, Greece.
01/14-04/16: Assistant Professor in Engineering Intelligent Systems and Applications in Wood and Furniture Sector Dept. of Wood and Furniture Design and Technology, TEI of Thessaly, Greece.
03/12-12/13: Assistant Professor in Engineering Intelligent Systems and Applications in Forestry . Dept. of Forestry and Natural Environment Administration, TEI of Larissa, Greece.

ORCID: <https://orcid.org/0000-0002-4295-6719>

Google Scholar: <https://scholar.google.com/citations?hl=en&user=8loyXkAAAAJ>

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09/06-03/12: Lecturer in Applied Informatics. Dept. of Forestry and Natural Environment Administration, TEI of Larissa, Greece.
SELECTED RESEARCH PROJECTS
04/19-03/22: Scientific Coordinator. Project: “ Smart Pharmaceutical Manufacturing-SpuMoNI ”, CHIST-ERA 2017 . Duration 36 months. Total budget 1100000 euros.
08/18-12/19: Scientific Coordinator. Project: “Intelligent System for EU regulation 995 non-compliance Risk Assessment in wood industry”. Funded by the Ministry of Environment and Energy, Greece.
01/13-09/15: Scientific Coordinator. Project: “ e-Furniture - Dynamic Networking of Wood and furniture Manufacturing Enterprises using Intelligent Agent Technology”, run at Institute of Research and Technology – Thessaly (I.RE.TE.TH), jointly funded by EU and General Secretariat of Research and Technology (GSRT), Greece.
01/14-05/14: Scientific Coordinator. Project: “Tool Development for Adaptive Parameter Configuration of Internet Software”, run at Technological Research Center of Thessalia , funded by ISOTEC Ltd.
09/10-12/12: Scientific Coordinator. Act “Innovation Coupons for Small and Medium-sized Enterprises”, Technological Research Centre of Thessaly, Greece. Coordinated execution of 9 innovation coupon projects each with duration of 5 months. Funded by General Secretariat of Research and Technology, Greece. Innovation coupon titles: <ul style="list-style-type: none"> - “Supporting Operations of Agricultural SME Smart Business Networks using ICT technologies” - “Innovative Material Management in Furniture Manufacturing Processes using Intelligent Software Technologies” - “Dynamic Networking of Public Sector Organisations using Adaptive Software Tools” - Intelligent Systems for Dynamically Adaptive and Personalised Advertising” - “Dynamically Adaptive and Personalised Services using Self-Organising Software” - “Dynamic Coordination of Soft-Drink Production and Delivery using ICT Technologies” - “Innovative Textile Production Management Processes using Intelligent software technologies” - “Improving Wood Sawmill Operations using Intelligent Optimisation Technologies” - “Proactive Medical Information Provision using Personalised Software technologies”
07/12-12/13: Senior Marie-Curie Research Fellow. Project: “COMPOSER: COMposition and Management of POLymorphic SERvices”. EU Marie-Curie Intra-European Fellowship for Career Development grant No. PIEF-GA-2011-301125. Centre of Service Research, Manchester Business School, University of Manchester, UK.

01/13-12/14:	Research Associate. Project: " SPRINT SMEs : Research in Software Process Improvement Methodologies for Greek Small & Medium sized Software Development Enterprises (SMEs)", ACT: "Archimedes III: Supporting Research Groups at TEI", run at TEI of Thessaly , jointly funded by EU and the Ministry of Education, Greece.
01/13-12/14:	Research Associate. Project: "Intelligent Testing of Material Quality for Packaging Paper Production", ACT: "Archimedes III: Supporting Research Groups at TEI", run at TEI of Thessaly , jointly funded by EU and the Ministry of Education, Greece.
03/06-03/07:	Research Associate. Project: " <i>Sawmill Optimisation Software</i> ", E-Efficiency Computer Applications, Greece.
03/04-12/05:	Research Associate. Project: " <i>Dynamic Multi-Agent Systems Formation</i> ". Act Pythagoras: "Supporting University Research Groups", University of Aegean, Greece.
09/02-12/03:	Research Fellow (Grade II). Projects: " <i>Multi-Agent Business Environments (MABE)</i> " and " <i>Agentcities.NET</i> ". Dept. of Computation, University of Manchester Institute of Science and Technology, UK.
01/94-12/95:	Research Assistant. CLAIRE Research Group. Research Institute of Meteorology and Climatology. School of Geology, Aristotle University of Thessaloniki, Greece.
11/93-04/94:	Research Assistant. HYDROSCOPE Project. Sector of Hydraulics. Dept. of Civil Engineering. Aristotle University of Thessaloniki, Greece.
09/90-09/92:	Research Assistant. EPOCH Research Group. Research Institute of Meteorology and Climatology. School of Geology, Aristotle University of Thessaloniki, Greece.

C. EDUCATION & SCIENTIFIC PROFILE

ACADEMIC DEGREES	
2003:	Ph.D. in Agent-based Systems Engineering. Dept. of Computation, UMIST, Manchester, UK. Thesis title: " <i>Using Synthesis and Role Modelling to Reduce Complexity in Agent-based Systems Design</i> ". BT grant No. ML816801/MH354166.
1995:	Shorter MBA in Finance and Accounting Management. Macedonian Group of Studies, Thessaloniki, Greece. In cooperation with Olympian University Foundation, Wilmington, USA.
1994:	M.Sc. in Computer Science. Department of Computer Science, University of Essex, Essex, UK.
1991:	B.Sc. in Applied Mathematics. Department of Mathematics, School of Positive Sciences, Aristotle University of Thessaloniki, Thessaloniki, Greece.
SELECTED ACADEMIC AWARDS	
2012:	EU Marie-Curie Intra-European Fellowship for Career Development grant No. PIEF-GA-2011-301125. Project Title: COMPOSER: COMposition and Management of Polymorphic SERVICES
2002:	BT research award from BT research labs. Patent application title: " <i>Multi-Agent System Design Using Role Models</i> " by S. Thompson and A. Karageorgos, BT Ref. A26117 (Patent No. 02704934.5-2211-GB0201048).

2001:	IJCAI scholarship from the Sixth AAAI/SIGART Doctoral Consortium, held in conjunction with IJCAI, Seattle, USA.
1999:	3 year PhD sponsorship from British Telecom (BT), UK.
1994:	Shorter MBA scholarship from Olympian University Foundation, Thessaloniki, Greece.
PUBLICATIONS	
1. BOOKS AND THESES	
1.1	Serugendo, G. D. M., M. P. Gleizes and A. Karageorgos , (eds). <i>Self-Organising Software: From Natural to Artificial Adaptation</i> . 2011, Springer Verlag: Berlin, October 2011, 462 p, ISBN 978-3-642-17347-9.
1.2	Brueckner S., G. D. M. Serugendo, A. Karageorgos , and R. Nagpal, (eds). <i>Engineering Self-Organising Systems: Methodologies and Applications</i> . Lecture Notes in Computer Science, Vol. 3464. 2005, Springer Verlag: Berlin, 299 p., ISBN 978-3-540-26180-3.
1.3	Serugendo, G. D. M., A. Karageorgos , O. F. Rana and F. Zambonelli, (eds). <i>Engineering Self-Organising Systems: Nature-inspired approaches to software engineering</i> . Lecture Notes in Computer Science, Vol. 2977. 2004, Springer Verlag: Berlin, 299 p., ISBN 978-3-540-21201-0.
1.4	Karageorgos, A. <i>Using Role modelling and Synthesis to Reduce Complexity in Agent-Based System Design</i> , PhD Thesis. Dept. of Computer Science, University of Manchester Institute of Science and Technology (UMIST): Manchester, UK. 2003. p. 219.
2. JOURNALS	
2.1	Fatima L. et al. (incl. Karageorgos, A.), 2021. " <i>Smart Pharmaceutical Manufacturing: Ensuring End-to-End Traceability and Data Integrity in Medicine Production</i> ", <i>Big Data Research</i> , 24, 100172. <i>Special Issue on Big Data in Industrial and Commercial Applications</i> https://doi.org/10.1016/j.bdr.2020.100172 .
2.2	Karageorgos, A. , E. Rapti and V. C. Gerogiannis, 2016. " <i>A Bio-inspired Approach for Dynamic Product Bundling in Enterprise Networks</i> ", <i>Journal of Software</i> , 11 (11), pp. 1111-1118, ISSN: 1796-217X.
2.3	Rapti, E., A. Karageorgos , C. Houstis and E. Houstis, 2016. " <i>Decentralised Service discovery and selection in Internet of Things Applications based on Artificial Potential Fields</i> ", <i>Service Oriented Computing and Applications</i> , pp. 1-12, ISSN: 1863-2386.
2.4	Adamopoulos, S., A. Karageorgos , E. Rapti and D. Birbilis, 2016. " <i>Predicting the Properties of Corrugated Base Papers Using Multiple Linear Regression and Artificial Neural Networks</i> ", <i>Drewno journal: prace naukowe, doniesienia, komunikaty</i> , 50 (198). ISSN 1644-3985.
2.5	Karageorgos, A. , E. Rapti and V. C. Gerogiannis, 2015. " <i>Resource Allocation in Software Projects using a Bio-inspired Model</i> ", <i>Journal of Software</i> , Special issue based on 7th International Conference on Software Technology and Engineering (ICSTE 2015), Hongkong, September 19-20, 2015. 10, 12, (December 2015) pp.1351-1358, ISSN: 1796-217X.

2.6	Gerogiannis, V. C., E. Rapti, A. Karageorgos and P. Fitsilis, 2015. “On Using Fuzzy Linguistic 2-Tuples for the Evaluation of Human Resource Suitability in Software Development Tasks” . <i>Advances in Software Engineering</i> , vol. 2015, Article ID 695873, 15 pages, ISSN: 1687-8655.
2.7	Trigkas, M., I. Papadopoulos, A. Karageorgos , E. Rapti and A. Sideras, 2015. “Value Creation Based On IT Marketing. An Exploratory Study for Developing Strategic Partnerships in the Greek Wood & Furniture Sectors” . <i>International Journal of Technology Marketing</i> , Special Issue on Innovation and New Marketing Channels, 10, 4 (October 2015), pp. 345-361, ISSN 1741-8798.
2.8	Adamopoulos. S., A. Karageorgos , C. Passialis and M. Chavenetidou, 2011. Mathematical Approach for defining Juvenile-Mature Wood Transition Zone in Black Locust and Chestnut . <i>Wood and Fiber Science</i> , 43(3), pp. 336-342, ISSN: 07356161.
2.9	Serugendo, G.D.M., M.-P. Gleizes, and A. Karageorgos , 2006. Self-Organisation and Emergence in MAS: An Overview . <i>Informatica</i> , Special issue on "Hot Topics in European Agent Research II", 30, 1 (Jan 2006), pp. 45-54, ISSN: 0350-5596.
2.10	Hassas, S., Serugendo, G.D.M., Karageorgos, A. and C. Castelfranci, 2006. Self-Organising Mechanisms from Social and Business/Economics domains . <i>Informatica</i> , special issue on "Hot Topics in European Agent Research II", 30, 1 (Jan 2006), p. 63-71.
2.11	Serugendo, G.D.M., M.-P. Gleizes, and A. Karageorgos , 2005. Self-Organisation and Emergence in Multi-Agent Systems . <i>Knowledge Engineering Review</i> , 20, 2 (Jun 2005), p. 165-189.
2.12	Karageorgos, A. , Mehandjiev, N, Hämmerle, A. and G. Weichhart, 2003. Agent-Based Optimisation of Logistics and Production Planning . <i>Engineering Applications of Artificial Intelligence</i> , Special Issue on Intelligent Manufacturing, 16, 4, (June 2003), p. 335-348
2.13	Karageorgos, A. , S. Thompson and N. Mehandjiev, 2002. Agent-based system design for B2B electronic commerce , <i>International Journal of Electronic Commerce</i> , Special Issue on Agent Technologies for B2B Electronic Commerce, 7, 1, (Fall 2002), p. 59-90.
2.14	Karageorgos, A. , N. Mehandjiev and S. Thompson, 2002. RAMASD: A Semi-Automatic Method for Designing Agent Organisations , <i>Knowledge Engineering Review</i> , Special Issue on Coordination and Knowledge Engineering, 17, 4 (Fall 2002), p. 57-84.
2.15	D’Inverno, M. M. Luck, A. and UKMAS’01 members (incl A. Karageorgos), 2002. Practical and Theoretical Innovations in Multi-Agent Systems Research , <i>Knowledge Engineering Review</i> , 17, 3 (Summer 2002), pp. 295-301, ISSN: 0269-8889.
3. SELECTED CONFERENCES AND WORKSHOPS	
3.1	Kavasidis, I., E. Lallas, V. C. Gerogiannis, and A. Karageorgos , (2022). “Analytics and Blockchain for Data Integrity in the Pharmaceuticals Industry”, <i>2022 4th International Conference on Advances in Computer Technology, Information Science and Communication (CTISC)</i> , ISBN 978-1-6654-5873-3.
3.2	Bakagiannis, I., V. C. Gerogiannis, G. Kakarontzas and A. Karageorgos , (2021).

	<p>"Machine learning product key performance indicators and alignment to model evaluation". <i>2021 3rd International Conference on Advances in Computer Technology, Information Science and Communication (CTISC)</i>, pp. 172-177, doi: 10.1109/CTISC52352.2021.00039.</p>
3.3	<p>Lallas E., I. Santouridis, G. Mountzouris, V. C. Gerogiannis and A. Karageorgos (2021). "An Ontology based Conceptualization of Data Integrity Regulatory Compliance in Pharmaceutical Industry: The SPuMoNI Case". <i>PCI 2021: 25th Pan-Hellenic Conference on Informatics</i>. Volos, Greece, November 2021. pp 460–465, https://doi.org/10.1145/3503823.3503907.</p>
3.4	<p>Tzimos D., V. C. Gerogiannis, S. Le Hoang and A. Karageorgos (2021). "A Recommender System based on Intuitionistic Fuzzy Sets for Software Requirements Prioritization", <i>PCI 2021: 25th Pan-Hellenic Conference on Informatics</i>. Volos, Greece, November 2021. pp 466–471, https://doi.org/10.1145/3503823.3503908.</p>
3.5	<p>Lallas E., A. Karageorgos and G. Ntalos (2021). "An Ontology based approach for Regulatory Compliance of EU Reg. No 995/2010 in Greece", European Federation for Information Technology in Agriculture, Food and the Environment (EFITA) 2021 Conference, <i>Engineering Proceedings</i>. 2021; 9(1):38.</p>
3.6	<p>Xenakis, A., A. Karageorgos, E. Lallas, A. E. Chis and H. González-Vélez (2019). "Towards Distributed IoT/Cloud based Fault Detection and Maintenance in Industrial Automation". <i>Procedia Computer Science</i> 151 pp. 683-690. ISSN: 1877-0509.</p>
3.7	<p>Karageorgos, A., E. Rapti, N. Albanis, D. Birbilis, I. Ntintakis and G. Ntalos, 2017. "Intelligent Recommendation System for Customized Ergonomic Furniture Design", IEEE International Conference on Engineering, Technology and Innovation (23rd ICE/ITMC), Madeira Island, Portugal, 27-29 June, 2017, pp. 1370–1375, ISBN: 978-1-5386-0774-9.</p>
3.8	<p>Rapti, E., A. Karageorgos, C. Houstis and E. Houstis, 2016. "A bioinspired Service discovery and selection Approach for IoT Applications", IEEE International Conference on Services Computing (SCC), San Francisco, CA, USA, 2016, pp. 868-871, ISBN: 978-1-5090-2628-9.</p>
3.9	<p>Rapti, E., A. Karageorgos and V. C. Gerogiannis, 2015. "Decentralised Service Composition using Potential Fields in Internet of Things Applications", In Shakshuki E. (Ed): 6th International Conference on Ambient Systems, Networks and Technologies (ANT-2015), London, United Kingdom, June 2-5, 2015. pp 700-706. Elsevier B.V., ISBN: 978-1-5108-0601-6.</p>
3.10	<p>Gerogiannis, V. C., E. Rapti, A. Karageorgos and P. Fitsilis, 2015. "A Fuzzy Linguistic Approach for Human Resource Evaluation and Selection in Software Projects", In Ahad A. (Ed): 5th International Conference on Industrial Engineering and Operations Management, Dubai, UAE, 3-5 March 2015. IEEE Computer Society Press, pp. 1-9, ISBN: 978-1-4799-6064-4.</p>
3.11	<p>Gerogiannis, V. C., E. Rapti, A. Karageorgos and P. Fitsilis, 2014. "Human Resource Assessment in Software Development Projects Using Fuzzy Linguistic 2-Tuples", In Al-Dabass D., G. Romero, E. Corchado, I. Saad, A. Orsoni, and A. Pantelous (Eds): 2nd International Conference on Artificial Intelligence, Modelling and Simulation (AIMS), Madrid, Spain, 18 – 20 November 2014. IEEE Computer Society Press, pp. 217-222,</p>

ISBN: 978-1-4799-7599-0.

- 3.12 **Karageorgos, A.**, N. Mehandjiev and E. Rapti, 2014. "[Supporting Sensing Enterprise Operations with Polymorphic Service Infrastructures](#)". In Boje, E. and X. Xia (Eds.): 19th International Federation of Automatic Control (IFAC) conference World Congress, Invited Session on Digital and Sensing Enterprise, Cape Town, South Africa, 2014, Elsevier, pp. 9937-9942, ISBN: 978-1-63439-456-7.
- 3.13 Trigkas M., I. Papadopoulos, **A. Karageorgos**, E. Rapti and A. Sideras, 2014. "[Consumers' research for an Innovative Business Networking Model in Greek Wood and Furniture Sectors](#)". In Vrontis D., Y. Weber and E. Tsoukatos (Eds): 7th Euromed Academy of Business Conference, Krinstiansand, Norway, September 18-19, 2014, EuroMed Press, pp. 1612-1624, ISBN 978-9963-711-27-7.
- 3.14 Rapti, E., **A. Karageorgos**, and G. Ntalos, "[Adaptive Constrained and Rule-based Product Bundling in Enterprise Networks](#)", 2014. In: Reddy, S. (ed.): Enabling Technologies: Infrastructures for Collaborative Enterprises (WETICE), 12th IEEE International Workshop on Adaptive Computing (and Agents) for Enhanced Collaboration, June 23-25, Parma, Italy, 2014, IEEE Computer Society Press, pp. 15-20, ISBN 978-1-4799-4249-7.
- 3.15 **Karageorgos A.**, N. Mehandjiev, and E. Rapti, "[A Model for intelligent Adaptation and Evolution of Polymorphic Services](#)", 2013. In (Eds): 6th IEEE International Conference on Service-Oriented Computing and Applications (SOCA), Kauai, Hawaii, 2013, IEEE Computer Society Press, pp. 30 – 37, ISBN 978-1-4799-2701-2.
- 3.16 **Karageorgos, A.** and E. Rapti, "[Dynamic Generation of Personalized Product Bundles in Enterprise Networks](#)", 2013. In Demey, Y. T. and H. Paneto (Eds): On the Move to the Meaningful Internet Systems: OTM 2013 Workshops, Graz, Austria, 2013, Springer, Berlin-Heidelberg, pp. 207-218, ISBN: 978-3-642-41032-1.
- 3.17 Gerogiannis, V. C., **A. Karageorgos**, L. Liu and C. Tjortjis, 2013. "[Personalised Fuzzy Recommendation for High Involvement Products](#)". In (Eds): IEEE International Conference on Systems, Man and Cybernetics. Manchester, UK, 13-16 October 2013, IEEE Computer Society Press, pp. 4884 – 4890, ISBN: 978-1-4799-0652-9.
- 3.18 Wajid, U., C. Marin and **A. Karageorgos**, 2013. "[Optimizing Energy Efficiency in The Cloud Using Service Composition and Runtime Adaptation Techniques](#)". IEEE International Conference on Systems, Man and Cybernetics. Manchester, UK, 13-16 October 2013, IEEE Computer Society Press, pp 115-120, ISBN: 978-1-4799-0652-9.
- 3.19 **Karageorgos, A.**, D. Avramouli, G. Ntalos, C. Tjortjis, and K. Vasilopoulou, 2010. "[Towards Agent-Based 'Smart' Collaboration in Enterprise Networks](#)". In: Reddy, S. (Ed.): Enabling Technologies: Infrastructures for Collaborative Enterprises (WETICE), 19th IEEE International Workshop on Agent Computing for Enterprise Collaboration. Larissa, Greece, 20-23 June, IEEE Computer Society Press, pp. 35-40, ISBN: 978-1-4244-7216-1.
- 3.20 **Karageorgos, A.**, D. Avramouli, C. Tjortjis, and G. Ntalos, 2010. "[Agent-Based Digital Networking in Furniture Manufacturing Enterprises](#)". In F. Zavoral et al. (Eds): Second International Conference on 'Networked Digital Technologies' (NDT 2010). Prague, Czech Republic (2010), Springer: Berlin, pp. 381-395, ISBN 978-3-642-14305-2.

- 3.21 Konstandinidis, V. and **A. Karageorgos**, 2005. "[A Pattern language for FIPA Agent interface design](#)". EUROCON 2005, The International Conference on "Computer as a tool". Sava Center, Belgrade, Serbia & Montenegro, November 21-24, 2005, IEEE Press, pp. 1267 – 1270, ISBN: 1-4244-0049-X.
- 3.22 Hämmerle, A., **A. Karageorgos**, A. Reitbauer, and M. Pirker, 2004. "[A Role-Based Infrastructure for Customised Agent System Development in Supply Networks](#)". IEEE International Conference on Systems, Man and Cybernetics (SMC'2004), Hague, The Netherlands, 10-13 October, IEEE Press, pp. 4692 - 4699, vol.5, ISBN: 0-7803-8566-7.
- 3.23 Reitbauer, A., A. Battino, **A. Karageorgos**, N. Mehandjiev, P. Valckenaers and B. Saint Germain, 2005. "[THE MABE MIDDLEWARE: Extending multi-agent systems to enable open business collaboration](#)". In L. M. Camarinha-Matos (Ed): *Emerging Solutions for Future Manufacturing Systems*, selected papers from 6th IFIP International Conference on Information Technology for Balanced Automation Systems in Manufacturing and Services, Vienna, Austria, 27-29 September 2004 (BASYS'04), IFIP Press, pp. 53-60. ISBN 0-387-22828-4.
- 3.24 **Karageorgos, A.**, and N. Mehandjiev, 2004. "[A Design Complexity Evaluation Framework for Agent-Based System Engineering Methodologies](#)". In Omicini, A., Peta, P. and J. Pitt (Eds): Engineering Societies in the Agents World IV (ESAW 2003), London, UK. LNCS 3071, Springer-Berlin, pp. 258-274, ISBN 978-3-540-22231-6.
- 3.25 Mehandjiev N., **A. Karageorgos** and G. H. Tsang, 2003. "[Designing Coordination Systems for Distributed Teamwork](#)". In (Eds): International Workshop on Distributed and Mobile Collaboration (DMC 2003), IEEE International Workshops on Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE-2003), Linz, Austria, June 9-11, IEEE Press, pp. 117-122, ISBN: 0-7695-1963-6.
- 3.26 Georgousopoulos, C., O.F. Rana and **A. Karageorgos**, 2004, "[Supporting FIPA Interoperability for Legacy Multi-Agent Systems](#)". In Giorgini, P., Müller, J.P. and J. Odell (Eds): Agent-Oriented Software Engineering IV, Fourth International Workshop (AOSE 2003), Melbourne, Australia, July 15, LNCS 2935, Springer:Berlin, pp. 167-184. ISBN 978-3-540-20826-6.
- 3.27 **Karageorgos, A.**, N. Mehandjiev, A. Hämmerle, and G. Weichhart, 2003. "[Agent-Based Optimisation of Logistics and Production Planning](#)". In Monostori, L., B. Kadar and G. Morel (Eds): 7th IFAC Workshop on Intelligent Manufacturing Systems, IMS 2003, Budapest, Hungary, April 6-8, IFIP Press, pp. 113-118. ISBN: 0-08-0442897.
- 3.28 **Karageorgos, A.**, S. Thompson and N. Mehandjiev, 2003. "[Specifying Reuse Concerns in Agent System Design Using A Role Algebra](#)". In Kowalczyk, R., Müller, J., Tianfield, H. and R. Unland (Eds.): Agent Technologies, Infrastructures, Tools, and Applications for e-Services. LNAI 2592, Berlin-Heidelberg: Springer Verlag, pp. 121-136. ISBN 978-3-540-00742-5.
- 3.29 **Karageorgos, A.**, S. Thompson and N. Mehandjiev, 2002. "[Semi-Automatic Design of Agent Organisations](#)". In Haddad H. and G. Papadopoulos (Eds): Proceedings of ACM Symposium in Applied Computing, Special Track on Coordination Models, Languages and Applications, Madrid, Spain, March 10-14, ACM Press, pp. 306-313. ISBN: 1-58113-445-2.
- 3.30 **Karageorgos, A.** and H. Karatza, 1997. "[Performance Issues of Task Routing and Task](#)

[Scheduling with Resequencing in Homogeneous Distributed Systems](#)”, In (Eds): Proceedings of the 30th Annual Simulation Symposium, April 6-10, Atlanta, IEEE Computer Society Press, pp. 182-192. ISBN: 0-8186-7934-4.

4. SELECTED BOOK CHAPTERS

4.1 Kilanioti, I., A. Fernández-Montes, D. Fernández-Cerero, **A. Karageorgos**, C. Mettouris, V. Nejkovic, N. Albanis, R. Bashroush and G. A. Papadopoulos (2019). [“Towards Efficient and Scalable Data-Intensive Content Delivery: State-of-the-Art, Issues and Challenges”](#). High-Performance Modelling and Simulation for Big Data Applications: Selected Results of the COST Action IC1406 cHiPSet. J. Kołodziej and H. González-Vélez. Cham, Springer International Publishing: 88-137. ISBN 978-3-030-16271-9.

4.2 Serugendo, G.D.M., M.P. Gleizes and **A. Karageorgos**, 2011. [“Self-Organising Systems”](#). In Serugendo, G.D.M., M.P. Gleizes and A. Karageorgos (eds). Self-Organising Software: From Natural to Artificial Adaptation. Natural Computing Series, 2011, Springer-Verlag: Berlin, pp. 7-32, ISBN 978-3-642-17347-9.

4.3 Serugendo, G.D.M., M.P. Gleizes and **A. Karageorgos**, 2011. [“Self-Organising Systems: History and Definitions”](#). In Serugendo, G.D.M., M.P. Gleizes and A. Karageorgos (eds). Self-Organising Software: From Natural to Artificial Adaptation. Natural Computing Series, 2011, Springer-Verlag: Berlin, pp. 33-74, ISBN 978-3-642-17347-9.

4.4 Gleizes, M. P., V. Camps, **A. Karageorgos** and G.D.M. Serugendo, 2011. [“Agents and Multi-Agent Systems”](#). In Serugendo, G.D.M., M.P. Gleizes and A. Karageorgos (eds). Self-Organising Software: From Natural to Artificial Adaptation. Natural Computing Series, 2011, Springer-Verlag: Berlin, pp. 105-119, ISBN 978-3-642-17347-9.

4.5 Serugendo, G.D.M., Foukia, N., Hassas, S., **Karageorgos, A.**, Mostefaoui, S.K., Rana, O.F., Ulieru, M., Valkenaers, P. and C. Van Aart, 2004. [“Self-Organisation: Paradigms and Applications”](#). In Serugendo, G.D.M., Karageorgos, A., Rana, O.F., and F. Zambonelli (eds). Engineering Self-Organising Systems: Nature-inspired approaches to software engineering. LNAI 2977, Springer:Berlin, pp. 1-19, ISBN 978-3-540-21201-0.

5. SELECTED WORKSHOPS

5.1 **Karageorgos, A.**, E. Rapti and V.C. Gerogiannis, 2015. [“Socially-Related Human Resource Allocation in Software Projects”](#), In Grosspietsch, Erwin & Klockner, Konrad (Eds): 41st Euromicro Conference series on Software Engineering and Advanced Applications (SEAA), Madeira, Portugal, August 26-28, SEA-Publications: SEA-SR-44, ISBN 978-3-902457-44-8.

5.2 Efthimiou G. and **A. Karageorgos**, 2010. [“Biodiversity and Ecotouristic management study of the Steni Aesthetic Forest \(GR24200002\) - Greece”](#). CD-ROM Proceedings of the International Conference Pre10: Protection and Restoration of the Environment X, University of Ioannina (UOI), Ioannina Greece and Stevens Institute of Technology (New Jersey, USA), 5-9 July 2010, Corfu, Greece.

5.3 Mostefaoui, K. S, O.F. Rana, N. Foukia, S. Hassas, G.D.M. Serugendo, C. Van Aart and **A. Karageorgos**, 2003. [“Self-Organising Applications: A Survey”](#). Engineering Self-Organising Applications, First International Workshop (AOSE 2003), held in

<p>conjunction with AAMAS'03, Melbourne, Australia, July 15.</p>
<p>5.4 Georgousopoulos, C., O.F. Rana and A. Karageorgos, 2003. "Rapid development of FIPA interoperability for an existing legacy MAS". Agent-Oriented Software Engineering IV, Fourth International Workshop (AOSE 2003), held in conjunction with AAMAS'03, Melbourne, Australia, July 15.</p>
<p>5.5 Karageorgos, A., S. Thompson and N. Mehandjiev, 2002. "Specifying Reuse Concerns in Agent System Design Using A Role Algebra". Workshop on Agent Technologies for e-services (ATES 2002), held in conjunction with Net.ObjectDays (NODe 2002). Erfurt, Germany, October 7-10.</p>
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<p>6. SELECTED NATIONAL CONFERENCES (in Greek)</p>
<p>6.1 Σιούτας Κ., Κ. Νινίκας, Ε. Λαλλάς, Γ. Νταλός και Α. Καραγεώργος (2021). "Σχεδιασμός και ανάπτυξη «έξυπνου» ψηφιακού παχύμετρου μέτρησης ξυλείας και προϊόντων ξύλου", 20ο Πανελλήνιο Δασολογικό Συνεδριο με τίτλο «Σύγχρονες προκλήσεις του δάσους στην Ελληνική Δασοπονία και προστασία του φυσικού περιβάλλοντος, 200 χρόνια μετά της Επανάσταση του '21» Τρίκαλα, Οκτώβριος 2021.</p>
<p>6.2 Ευθυμίου Γ., Α. Καραγεώργος και Γ. Ζιώγας (2011). "Διερεύνηση της οικουτουριστικής υποδομής και της επισκεψιμότητας στο Εθνικό Πάρκο Βόρειας Πίνδου". 15ο Πανελλήνιο Δασολογικό Συνέδριο «Δασοπονία πολλαπλών σκοπών και κλιματική αλλαγή - Προστασία και αξιοποίηση φυσικών πόρων», 16-19 Οκτωβρίου 2011, Καρδίτσα. ISBN: 978-960-89478-4-9.</p>
<p>6.3 Καραγεώργος, Α., Γ. Νταλός, Ι. Παπαδόπουλος, Β. Γερογιάννης, Ε. Ράπτη, Μ. Τρίγκας, Α. Βαλαή, Α. Σιδεράς και Κ. Βασιλοπούλου, 2015. "e-Furniture: Έξυπνη Δικτύωση Επιχειρήσεων Κατασκευής και Εμπορίας Επίπλων και Ξυλοκατασκευών", 17ο Πανελλήνιο Δασολογικό Συνέδριο, "Η Συμβολή της Σύγχρονης Δασοπονίας και των Προστατευόμενων Περιοχών στη Βιώσιμη Ανάπτυξη", Κεφαλονιά, 4-7 Οκτωβρίου, 2015, pp.192-200.</p>
<p>6.4 Βαλαή, Α., Δ. Μπιρμπίλης, Α. Καραγεώργος και Σ. Αδαμόπουλος, 2015. "Πρόβλεψη ιδιοτήτων χαρτιών κατηγορίας κυματοειδούς χαρτονιού από ανακτώμενες ίνες", 17ο Πανελλήνιο Δασολογικό Συνέδριο, "Η Συμβολή της Σύγχρονης Δασοπονίας και των Προστατευόμενων Περιοχών στη Βιώσιμη Ανάπτυξη", Κεφαλονιά, 4-7 Οκτωβρίου, 2015, pp. 313-320.</p>
<p>6.5 Ράπτη, Έ., Δ. Μπιρμπίλης, Α. Καραγεώργος και Σ. Αδαμόπουλος, 2015. "Χρήση Νευρωνικών Δικτύων για την Πρόβλεψη Ιδιοτήτων Χαρτιών Κατηγορίας Κυματοειδούς Χαρτονιού από Ανακτώμενες Ίνες", 17ο Πανελλήνιο Δασολογικό Συνέδριο, "Η Συμβολή της Σύγχρονης Δασοπονίας και των Προστατευόμενων Περιοχών στη Βιώσιμη Ανάπτυξη", Κεφαλονιά, 4-7 Οκτωβρίου, 2015, pp. 321-328.</p>
<p>6.6 Αδαμόπουλος, Σ., Δ. Μπιρμπίλης, Ε. Ράπτη, Α. Βαλαή και Α. Καραγεώργος, 2015. "Έλεγχος Ποιότητας Πρώτων Υλών από Ανακτώμενες Ίνες για Παραγωγή Κυματοειδούς Χαρτονιού Συσκευασίας", 17ο Πανελλήνιο Δασολογικό Συνέδριο, "Η Συμβολή της Σύγχρονης Δασοπονίας και των Προστατευόμενων Περιοχών στη Βιώσιμη Ανάπτυξη", Κεφαλονιά, 4-7 Οκτωβρίου, 2015, pp. 329-337.</p>

6. PATENTS

6.1 Thompson S. (BT Exact Technologies) and **A. Karageorgos**, 2002. *Multi-Agent System Design Using Role Models*, BT Case Ref. A26117. European Patent Office Patent No. 02704934.5-2211-GB0201048.

INDICATIVE PEER RECOGNITION

- Editorial Board Member:
 - ACM Transactions in Autonomous Adaptive Systems (ACM TAAS)
- Conference Steering and Program Committee Member:
 - EDI40'20,21, PCI'21,22, IWUC'04,05,06, WI/IAT'04,05,06,07,08,09,10,11, ESAW'04,05,06,07,08,09, ESOA'03,04,05,06, MA4CS'05,06, EUMAS'05, IIT'06, DEST'07, SASO'07,11, ADAPTIVE'11, PERVASIVE'11, NDT'10, SSS'09, INTECH'11, AAMAS'06,07, WETICE-ACEC'10,11, ECMS'11, CSMR'11, IJCAI'11, ICDIM'11
- Reviewer
 - Engineering Applications of Artificial Intelligence, Knowledge Engineering Review, Web Intelligence and Agent Systems, Journal of Autonomous Agents and Multi-Agent Systems, Logistics Information Management, International Journal of Electronic Commerce, Concurrency and Computation, Journal of Agent-Oriented Software Engineering, Pervasive and Mobile Computing, ACM Symposium in Applied Computing

D. PAST RESEARCH AREAS / CONTRIBUTIONS

Areas where research contributions were made by A. Karageorgos in the past include:

SELF-ORGANISING SYSTEMS

1. *Active contribution in Self-Organising Software* research. In the FP6 AgentLink NoE the need to start researching principles, mechanisms and methodologies for developing software with self-organisation and emergence capabilities was identified. Based on that initiative A. Karageorgos co-organised 2 international workshops titled "*Engineering Self-Organising Applications*" and co-established the *Self-Organisation in Multi-Agent Systems* Technical Forum Group which held regular meetings at various locations around Europe from 2004 to 2008. This work continued with the establishment of the [ACM Transactions in Autonomous Adaptive Systems Journal](#), at which A. Karageorgos has served as Associate Editor for 15 years. Latest developments of work in this field are currently announced in the [ACSOS conference series](#).

AGENT-BASED COORDINATION AND MANAGEMENT

2. *Contribution in agent-based coordination*. A. Karageorgos developed an approach for enterprise coordination based on agent contracting and role modelling which has received considerable accreditation in the technical and scientific communities. Further developments and industrial aspects of that work are currently tackled by the [IEEE-IES Technical Committee in Industrial Agents](#).