

Κατάλογος Δημοσιευμένων Εργασιών του

ΕΜΜΑΝΟΥΗΛ Θ. ΓΟΥΑΛΛΕΣ

Νοέμβριος 2019

Contents

Συνοπτικά αριθμητικά στοιχεία	4
Περιοδικά με σύστημα κριτών.....	5
Βιβλία.....	6
Συλλογικά βιβλία (edited volumes)	6
Τεύχη περιοδικών (guest-edited issues)	6
Κεφάλαια σε βιβλία, πέραν των συμμετοχών σε πρακτικά συνεδρίων	6
Ανακοινώσεις σε συνέδρια.....	7
Διατριβές.....	11
Διπλωματικές	11
Τεχνικές αναφορές	11

Συνοπτικά αριθμητικά στοιχεία

23	Άρθρα σε περιοδικά
77	Ανακοινώσεις σε συνέδρια
10	Special issues
8	Κεφάλαια σε βιβλία, εξαιρουμένων πρακτικών συνεδρίων
14	Edited books ή/και πρακτικά συνεδρίων
1	Βιβλίο
<hr/>	
6	Άρθρα σε περιοδικά τα τελευταία 3 χρόνια
27	Ανακοινώσεις σε συνέδρια τα τελευταία 5 χρόνια
3	Special issues τα τελευταία 3 χρόνια
2	Κεφάλαια σε βιβλία, εξαιρουμένων πρακτικών συνεδρίων, φέτος
5	Edited books ή/και πρακτικά συνεδρίων τα τελευταία 2 χρόνια

Περιοδικά με σύστημα κριτών

- [J23] R. A. García Vélez, M. López Nores, G. González Fernández, V.E. Robles Bykbaev, **M. Wallace**, J.J. Pazos Arias, A. Gil-Solla, On Data Protection Regulations, Big Data and Sledgehammers in Higher Education, Applied Sciences, 2019, 9, 3084
- [J22] V. Poulopoulos, C. Vassilakis, A. Antoniou, G. Lepouras, A. Theodoropoulos, **M. Wallace**, "The Personality of the Influencers, the Characteristics of Qualitative Discussions and Their Analysis for Recommendations to Cultural Institutions", Heritage. 2018; 1(2):239-253
- [J21] **M. Wallace**, "Working with the Society and for the Society: A Different Way to Run a Cultural Informatics Lab", Heritage 2018, 1, 207-219
- [J20] C. Vassilakis, V. Poulopoulos, A. Antoniou, **M. Wallace**, G. Lepouras and M. Lopez Nores, "exhiSTORY: Smart Exhibits That Tell Their Own Stories", Future Generation Computer Systems, Volume 81, 2018, Pages 542-556, ISSN 0167-739X
- [J19] C. Vassilakis, A. Antoniou, G. Lepouras, V. Poulopoulos, **M. Wallace**, S. Bampatzia and I. Bourlakos, "Stimulation of Reflection and Discussion in Museum Visits through the Use of Social Media", Social Network Analysis and Mining, 7:40, December 2017
- [J18] C. Ifrim, X. Koulouri, **M. Wallace**, F. Pop, M. Mocanu and V. Cristea, "Scientific footprints in digital libraries", Transactions on Computational Collective Intelligence, pp 91-118, vol XXVI, 2017
- [J17] P. Alexopoulos, **M. Wallace**, K. Kafentzis, D. Askounis, "IKARUS-Onto: A Methodology to Develop Fuzzy Ontologies from Crisp Ones", Knowledge and Information Systems, Volume 32, Issue 3, Page 667-695, 2011.
- [J16] P. Alexopoulos, **M. Wallace**, K. Kafentzis, D. Askounis, "Utilizing Imprecise Knowledge in Ontology-based CBR Systems through Fuzzy Algebra", International Journal of Fuzzy Systems, Vol. 12, No. 1, 2010.
- [J15] **M. Wallace**, "Ontologies and Soft Computing in Flexible Querying", Control and Cybernetics, Vol 2, 2009
- [J14] G. Caridakis, K. Karpouzis, **M. Wallace**, L. Kessous, N. Amir, Multimodal user's affective state analysis in naturalistic interaction, Journal of Multimodal User Interfaces, Volume 3, Numbers 1-2 / March, pp 49-66, 2010.
- [J13] P. Alexopoulos, **M. Wallace**, "A negotiation strategy for the Temporal Resource Reallocation Problem in multi-agent systems", International Journal of Internet Protocol Technology, Vol. 3, No. 3, pp. 194-202, 2008
- [J12] Ph. Mylonas, Th. Athanasiadis, **M. Wallace**, Y. Avrithis and S. Kollias, "Semantic Representation of Multimedia Content - Knowledge Representation and Semantic Indexing", Multimedia Tools and Applications, Springer, Vol. 39, Num. 3, pp. 293-327, 2008
- [J11] **M. Wallace**, S. Kollias, "Two Algorithms For Fast Incremental Transitive Closure Of Sparse Fuzzy Binary Relations", International Journal of Computational Methods, Vol 4, No 1, pp. 1-13, 2007
- [J10] **M. Wallace**, S. Ioannou, K. Karpouzis, S. Kollias, "Possibilistic Rule Evaluation: A case study in facial expression analysis", International Journal of Fuzzy Systems, Vol 8(4), pp. 219-223, December 2006
- [J9] **M. Wallace**, Y. Avrithis, S. Kollias, "Computationally efficient sup-t transitive closure for sparse fuzzy binary relations" Fuzzy Sets and Systems 157(3), pp. 341-372, 2006

- [J8] **M. Wallace**, T. Athanasiadis, Y. Avrithis, A. Delopoulos, and S. Kollias, "Integrating Multimedia Archives: The Architecture and the Content Layer", IEEE Trans. Systems, Man, and Cybernetics, Part A: Systems and Humans, Volume 36, Issue 1, Jan. 2006 Page(s):34 - 52
- [J7] **Wallace M.**, Ioannou S., Raouzaiou A., Karpouzis K., Kollias S., Dealing with Feature Uncertainty in Facial Expression Recognition Using Possibilistic Fuzzy Rule Evaluation, "International Journal of Intelligent Systems Technologies and Applications", Volume 1, Number 3-4 / 2006.
- [J6] Athanasiadis T., **Wallace M.**, Karpouzis K., Kollias S., "Utilization of evidence theory in the detection of salient regions in successive CT images", Oncology Reports, Vol. 15, pp. 1071-1076, May 2006.
- [J5] **M. Wallace**, N. Tsapatsoulis, S. Kollias, "Intelligent Initialization of Resource Allocating RBF Networks", Neural Networks 18(2), pp. 117-122, 2005
- [J4] **M. Wallace**, I. Maglogiannis, K. Karpouzis, G. Kormentzas, S. Kollias, "Intelligent One-Stop-Shop Travel Recommendations Using an Adaptive Neural Network and Clustering of History", Information Technology & Tourism 6 (3), pp. 181-193, 2004.
- [J3] **M. Wallace**, K. Karpouzis, M. Stefanou, I. Maglogiannis, S. Kollias, "Electronic Roads in Historical Documents: a Student Oriented Approach", Education and Information Technologies 9(3), pp. 271-289, 2004.
- [J2] **M. Wallace**, K. Karpouzis, G. Stamou, G. Moschovitis, S. Kollias, C. Schizas, "The Electronic Road: Personalised Content Browsing", IEEE Multimedia 10(4), pp. 49-59, 2003 [With correction in 11(1), pp. 53-53, 2004]
- [J1] Y. Avrithis, G. Stamou, **M. Wallace**, F. Marques, P. Salembier, X. Giro, W. Haas, H. Vallant, M. Zufferey, "Unified Access to Heterogeneous Audiovisual Archives, Journal of Universal Computer Science 9(6), pp. 510-519, 2003

Βιβλία

- [B1] Maglogiannis I., Karpouzis K., **Wallace M.**, Image And Signal Processing for eHealth Applications Morgan & Claypool Publishers, 2006.

Συλλογικά βιβλία (edited volumes)

- [EB14] A. Antoniou, **M. Wallace**, "Cultural Informatics 2019 - Proceedings of the workshop on cultural informatics research and applications: state of the art and open challenges", CEUR-WS vol. 2412, 2019.
- [EB13] S., T. Kuflik, I. Lykourentzou, **M. Wallace**, "Proceedings of the 2nd Workshop on Mobile Access to Cultural Heritage", CEUR-WS vol. 2176, 2018
- [EB12] M. Ioannides, E.E. Fink, R. Brumana, P. Patias, A. Doulamis, J. Martins, **M. Wallace**, "Progress in Cultural Heritage: Documentation, Preservation, and Protection, Part II", Lecture Notes in Computer Science 11197, Springer 2018.
- [EB11] M. Ioannides, E.E. Fink, R. Brumana, P. Patias, A. Doulamis, J. Martins, **M. Wallace**, "Progress in Cultural Heritage: Documentation, Preservation, and Protection, Part I", Lecture Notes in Computer Science 11196, Springer 2018.
- [EB10] A. Antoniou, **M. Wallace**, "Cultural Informatics 2018 - Proceedings of the workshop on cultural informatics research and applications: state of the art and open challenges", CEUR-WS vol. 2235, 2018.
- [EB9] Y. Velegrakis, **M. Wallace**, "Semantic and Social Media Adaptation and Personalization", ISBN: 978-1-5090-0242-9, 2015
- [EB8] **Wallace M.**, Anagnostopoulos I., Mylonas P., Bielikova M. (Eds) "Semantics in Adaptive and Personalised Services: Methods, Tools and Applications", Studies

- in Computational Intelligence Series, Springer, 2010.
- [EB7] Mylonas P., **Wallace M.**, Anagnostopoulos I. (Eds) "Semantic Media Adaptation and Personalization 2008", IEEE CPS, 2009.
- [EB6] M. Angelides, P. Mylonas, M. Wallace(Eds.), Advances in Semantic Media Adaptation and Personalization, Volume 2, CRC Press, 2009.
- [EB5] Mylonas P., **Wallace M.**, Angelides M. (Eds) "Semantic Media Adaptation and Personalization 2008", IEEE CPS, 2008.
- [EB4] **Wallace M.**, Angelides M., Mylonas P. (Eds) "Advances in Semantic Media Adaptation and Personalization" Springer-Verlag, 2008.
- [EB3] Mylonas P., **Wallace M.**, Angelides M. (Eds) "Semantic Media Adaptation and Personalization 2007", IEEE CPS, 2007.
- [EB2] Maglogiannis I., Karpouzis K., Soldatos J., **Wallace M.** (Eds) "Emerging Artificial Intelligence Applications in Computer Engineering" IOS Press, 2007.
- [EB1] Mylonas P., **Wallace M.**, Angelides M. (Eds) "Semantic Media Adaptation and Personalization 2006", IEEE CPS, 2006.

Τεύχη περιοδικών (guest-edited issues)

- [SI10] **M. Wallace**, V. Poulopoulos, A. Antoniou and M. López-Nores, "Big Data Analytics for Cultural Heritage", special issue for Big Data and Cognitive Computing, in preparation
- [SI9] M. López Nores, T. Kuflik, **M. Wallace**, Y. Naudet , "Personalized delivery of cultural heritage content", special issue of User Modeling and User-Adapted Interaction 29(1), 2019
- [SI8] I. Anagnostopoulos, **M. Wallace** and S. Zeadally, "Semantic Social Networks and Media Applications", special issue of Social Network Analysis and Mining, 7(1), 53:1-53:2, 2017
- [SI7] S. Laborie, Ph. Mylonas, Ph. Roose, **M. Wallace**, "Social media and networks for multimedia content management – Part 2", special issue of International Journal of Virtual Communities and Social Networking, volume 7, issue 3, 2015
- [SI6] S. Laborie, Ph. Mylonas, Ph. Roose, **M. Wallace**, "Social media and networks for multimedia content management – Part 1", special issue of International Journal of Virtual Communities and Social Networking, volume 7, issue 2, 2015
- [SI5] M. Angelides, P. Mylonas, **M. Wallace**, "Semantic Media Adaptation and Personalization", special issue of Multimedia Tools and Applications, Volume 41, Number 3 / February 2009.
- [SI4] P. Mylonas, Hermann Hellwagner, Pablo Castells, **M. Wallace**, "Multimedia Semantics, Adaptation & Personalization", special issue of Signal, Image and Video Processing, Volume 2, Number 4 / December 2008.
- [SI3] M. Angelides, P. Mylonas, **M. Wallace**, "Semantic Media Adaptation and Personalization, special issue of ACM Multimedia Systems 13(2), 2007.
- [SI2] I. Maglogiannis, K. Karpouzis, **M. Wallace**, "Image, Signal and Distributed Data Processing for Networked eHealth Applications", special issue of IEEE Engineering in Medicine and Biology Magazine, Volume 26, Issue 5, 2007
- [SI1] **M. Wallace**, S. Kollias, "Intelligent Image and Video Processing and Applications: The Role of Uncertainty", special issue of International Journal of Intelligent Systems Technologies and Applications, Vol 1(3/4), 2006.

Κεφάλαια σε βιβλία, πέραν των συμμετοχών σε πρακτικά συνεδρίων

- [BC8] C. Vasilakis, V. Poulopoulos, A. Antoniou, **M. Wallace**, G. Lepouras and M. L. Nores, "exhiSTORY: Smart self-organizing exhibits", in Big Data Platforms and

- Applications - Case Studies, Methods, Techniques, and Performance Evaluation, Springer, in press.
- [BC7] C. Ifrim, **M. Wallace**, V. Poulopoulos and A. Mourtzi, "Working with AIS data: challenges, techniques and opportunities", in Big Data Platforms and Applications - Case Studies, Methods, Techniques, and Performance Evaluation, Springer, in press
- [BC6] Alexopoulos P, **Wallace M.**, Kafentzis K., Zoumas C. and Askounis D., "Semantic-Enabled Information Access: An Application in the Electricity Market Domain", in Wallace M., Mylonas P., Anagnostopoulos I., Bielikova M. (Eds), Semantics in Adaptive and Personalised Services: Methods, Tools and Applications, Springer Series on Studies in Computational Intelligence, 2010.
- [BC5] R. Cowie, E. Douglas-Cowie, K. Karpouzis, G. Caridakis, **M. Wallace**, S. Kollias, Recognition of Emotional States in Natural Human-Computer Interaction, in D. Tzovaras (ed.) Multimodal User Interfaces, pp. 119-153, Springer Berlin Heidelberg, 2008
- [BC4] Kafentzis K., **Wallace M.**, Georgolios P., Alexopoulos P., Mentzas G., "Semantics Enabled Problem Based Brokering of Organizational Knowledge, in Maglogiannis I., Karpouzis K., Soldatos J., Wallace M. (eds), Emerging Artificial Intelligence Applications in Computer Engineering, IOS Press, 2007.
- [BC3] **Wallace M.**, Mylonas P., Akrivas G., Avrithis Y., Kollias S., "Automatic thematic categorization of multimedia documents using ontological information and fuzzy algebra, in Ma Z. (ed) "Soft Computing in Ontologies and Semantic Web, Springer, 2006.
- [BC2] **Wallace M.**, Avrithis Y., Kollias S., "Multimedia archives and mediators, in Furht B. (ed) "Encyclopedia of Multimedia, Springer, 2006.
- [BC1] **M. Wallace**, Y. Avrithis, G. Stamou, S. Kollias, "Knowledge-based Multimedia Content Indexing and Retrieval", in Stamou G., Kollias S. (Editors), "Multimedia Content and Semantic Web: Methods, Standards and Tools, Wiley, 2005
- Ανακουνώσεις σε συνέδρια**
- [C77] Η. Τζιώρας, **Μ. Γουάλλες**, Β. Πουλόπουλος, "Γειτονιές και Αναμνήσεις της Αλεξανδρούπολης", 3ο Πανελλήνιο συνέδριο ψηφιοποίησης πολιτιστικής κληρονομιάς (EUROMED 2019), Αθήνα, 25-27 Σεπτεμβρίου 2019
- [C76] Κ. Βασιλάκης, Β. Πουλόπουλος, **Μ. Γουάλλες**, Α. Αντωνίου, Γ. Λέπουρας, "TripMentor: προκλήσεις και προοπτικές για τον πολιτισμό και τον τουρισμό στην περιφέρεια Αττικής", 3ο Πανελλήνιο συνέδριο ψηφιοποίησης πολιτιστικής κληρονομιάς (EUROMED 2019), Αθήνα, 25-27 Σεπτεμβρίου 2019
- [C75] **Μ. Γουάλλες**, Β. Πουλόπουλος, Α. Αντωνίου, Γ. Λέπουρας, Κ. Βασιλάκης, Β. Παναγιωτίδη, Ν. Ζαχαριάς, "Κυνήγι θησαυρού στους Δρόμους της Ελευθερίας", 3ο Πανελλήνιο συνέδριο ψηφιοποίησης πολιτιστικής κληρονομιάς (EUROMED 2019), Αθήνα, 25-27 Σεπτεμβρίου 2019
- [C74] **Μ. Γουάλλες**, Β. Πουλόπουλος, Γ. Λέπουρας, Κ. Βασιλάκης, Ά. Αντωνίου, "Υποστήριξη μικρών μουσείων μέσω της σημασιολογικής ανάλυσης κοινωνικών δικτύων", 3ο Πανελλήνιο συνέδριο ψηφιοποίησης πολιτιστικής κληρονομιάς (EUROMED 2019), Αθήνα, 25-27 Σεπτεμβρίου 2019
- [C73] V. Poulopoulos, **M. Wallace**, I. Varlamis, G. Caridakis, P. Tsantilas, "PaloAnalytics: project concept, scope and early results from the system implementation", in proceedings of the 10th International Conference on Information, Intelligence, Systems and Applications (IISA2019), 15-17 July, Patras, Greece

- [C72] V. Poulopoulos, **M. Wallace**, C. Vassilakis and G. Lepouras, "PaloAnalytics Project Concept, Scope and Outcomes: An Opportunity for Culture ", Workshop on Cultural Informatics 2019, Larnaca, Cyprus, June 9, 2019
- [C71] C. Vassilakis, V. Poulopoulos, **M. Wallace**, A. Antoniou and G. Lepouras, "TripMentor Project: Scope and Challenges ", Workshop on Cultural Informatics 2019, Larnaca, Cyprus, June 9, 2019.
- [C70] V. Poulopoulos, A. Antoniou, **M. Wallace**, V. Panadiotidis and N. Zacharias, "Kalamata 1821 "Roads Of Freedom": Initial Efforts and Challenges ", Workshop on Cultural Informatics 2019, Larnaca, Cyprus, June 9, 2019
- [C69] I. Tzioras and **M. Wallace**, "Neighbourhoods and Memories of Alexandroupoli", Workshop on Cultural Informatics 2019, Larnaca, Cyprus, June 9, 2019.
- [C68] V. Poulopoulos, C. Vassilakis, A. Antoniou, G. Lepouras and **M. Wallace**, "Personality analysis of social media influencers as a tool for cultural institutions", Proceedings of EUROMED2018, October 2018, Cyprus
- [C67] V. Poulopoulos, C. Vassilakis, A. Antoniou, **M. Wallace**, G. Lepouras and M. L. Nores, "ExhiSTORY: IoT in the service of Cultural Heritage", Proceedings of the Global Information Infrastructure and Networking Symposium (GIIS 2018), Special Session on IoT and Cultural Heritage Protection, 2018, Thessaloniki, Greece
- [C66] V. Poulopoulos, C. Vassilakis, **M. Wallace**, A. Antoniou and G. Lepouras, "The effect of social media trending topics related to cultural venues' content", Proceedings of SMAP 2018, 6-7 September 2018, Zaragoza, Spain
- [C65] **M. Wallace** and V. Poulopoulos, "ΤΑΒΛΑΒ: The Knowledge and Uncertainty Research Laboratory at the University of Peloponnese", Workshop on Cultural Informatics 2018, Euromed Internation Conference on Digital Heritage 2018.
- [C64] A. Αντωνίου, K. Βασιλάκης, **M. Γουάλλες**, Γ. Λέπουρας, B. Πουλόπουλος, "Εμπειρίες από την ανάπτυξη θεματικών διαδρομών σε τρια Ελληνικά μουσεία", 2ο πανελλήνιο συνέδριο ψηφιοποίησης πολιτιστικής κληρονομιάς (EUROMED), Βόλος, 1-3 Δεκεμβρίου 2017
- [C63] C. Ifrim, I. Iuga, F. Pop, **M. Wallace** and V. Poulopoulos, "Data Reduction Techniques applied on Automatic Identification System Data", 3rd International KEYSTONE Conference (IKC 2017), Gdańsk, Poland, 11-12 September 2017. The final publication will be available at Springer.
- [C62] I. Bourlakos, **M. Wallace**, A. Antoniou, C. Vassilakis, G. Lepouras and A.V. Karapanagiotou, "Formalization and visualization of the narrative for museum guides", 3rd International KEYSTONE Conference (IKC 2017), Gdańsk, Poland, 11-12 September 2017. The final publication will be available at Springer.
- [C61] M. Theodorakopoulos, N. Papageorgopoulos, A. Mourtzi, A. Antoniou, **M. Wallace**, G. Lepouras, C. Vassilakis, N. Platis, "Personalized Augmented Reality Experiences in Museums using Google Cardboards", 12th International Workshop on Semantic and Social Media Adaptation and Personalization (SMAP 2017), July 9-10, 2017, Bratislava, Slovakia.
- [C60] S. Bampatzia, I. Bourlakos, A. Antoniou, C. Vassilakis, G. Lepouras, **M. Wallace**, "Serious games: Valuable tools for cultural heritage", Games and Learning Alliance Conference (GALA 2016), Dec 5-8, 2016, Utrecht, The Netherlands.
- [C59] C. Vasilakis, A. Antoniou, G. Lepouras, **M. Wallace**, I. Lykourentzou, Y. Naudet, "Interconnecting Objects, Visitors, Sites and (Hi)Stories across Cultural and Historical Concepts: the CrossCult project", 6th International Euro-

- Mediterranean Conference (EuroMed 2016), October 31st-November 5th, 2016, Nicosia, Cyprus.
- [C58] S. Bampatzia, A. Antoniou, **M. Wallace**, G. Lepouras and C. Vasilakis, "Using Social media to stimulate history reflection in cultural heritage", 11th International Workshop on Semantic and Social Media Adaptation and Personalization (SMAP 2016), October 20-21, 2016, Thessaloniki, Greece.
- [C57] X. Koulouri, C. Ifrim, **M. Wallace** and F. Pop, "Making sense of citations", 2nd International KEYSTONE Conference (IKC 2016), Cluj-Napoca Romania, 8-9 September 2016.
- [C56] S. Bampatzia, O.G. Bravo-Quezada, A. Antoniou, M. Lopez Nores, **M. Wallace**, G. Lepouras and C. Vasilakis, "The use of semantics in the CrossCult H2020 project", 2nd International KEYSTONE Conference (IKC 2016), Cluj-Napoca Romania, 8-9 September 2016.
- [C55] Ν. Πασχάλης, Φ. Παππάς και **M. Γουάλλες**, "Το Φοιτητικό Παράρτημα της IEEE στην Υπηρεσία των Μαθητών", Πρακτικά Εργασιών 10ου Πανελλήνιου Συνεδρίου Καθηγητών Πληροφορικής, Ναύπλιο 15-17 Απριλίου 2016
- [C54] Α. Θεοδωρόπουλος, Θ. Τριάντος και **M. Γουάλλες**, "Το Τμήμα Πληροφορικής και Τηλεπικοινωνιών του Πανεπιστημίου Πελοποννήσου στην Υπηρεσία της Σχολικής Εκπαίδευσης", Πρακτικά Εργασιών 10ου Πανελλήνιου Συνεδρίου Καθηγητών Πληροφορικής, Ναύπλιο 15-17 Απριλίου 2016
- [C53] **M. Wallace** and N. Platis, "The uncertain tag cloud", Proceedings of the 10th International Workshop on Semantic and Social Media Adaptation and Personalization, pp. 71-75, November 5-6, 2015, Trento, Italy.
- [C52] P. Alexopoulos and **M. Wallace**, "Creating Domain-Specific Semantic Lexicons for Aspect-Based Sentiment Analysis", Proceedings of the 10th International Workshop on Semantic and Social Media Adaptation and Personalization, pp. 7-12, November 5-6, 2015, Trento, Italy.
- [C51] N. Platis, **M. Wallace** and Th. Triantos, "Visualization of Uncertainty in Tag Clouds", J. Cardoso, G.J. Houben, F. Guerra, A.M. Pinto, Y. Velegrakis (Eds), Proceedings of the 1st KEYSTONE Conference, Lecture Notes in Computer Science, Springer, 2015.
- [C50] **M. Wallace** and Th. Triantos, "Visualization of Uncertain Information in Tag Clouds", Presented at the 1st International Keystone Conference, Coimbra, Portugal, September 8-9, 2015
- [C49] **M. Wallace**, Extracting and visualizing research impact semantics, Proceedings of the 9th International Workshop on Semantic and Social Media Adaptation and Personalization, Corfu, Greece, 2014
- [C48] P. Alexopoulos, **M. Wallace**, Towards Ontology-Based Question Answering in Vague Domains, Proceedings of the 9th International Workshop on Semantic and Social Media Adaptation and Personalization, Corfu, Greece, 2014
- [C47] K. Konstanteli, A. Voulodimos, K. Psychas, D. Nicolopoulos, A. Andreadis, S. Crowle, D. Salama Osborne, **M. Wallace**, A. Yannopoulos and T.A. Varvarigou, Leveraging Social Media and Multimedia Services for QoE Enhancement in Cultural Industries. proceedings of the Semantic and Social Media Adaptation and Personalization, pp. 103-108, 2013
- [C46] P. Alexopoulos and **M. Wallace**, Towards Learning Personalized Semantic Relevance Paths in Dialogue Systems, proceedings of the Semantic and Social Media Adaptation and Personalization, pp. 61-66, 2013

- [C45] M. Lopez Nores, Y. Blanco-Fernández, J.J. Pazos Arias, A. Gil-Solla, J. Garcia Duque, M. Ramos Cabrer and **M. Wallace**, REENACT: Learning about Historical Battles and Wars through Augmented Reality and Role Playing - An EXPERIMEDIA Experiment, Proceedings of the 7th International Conference on Computer Supported Education, pp. 160-165, 2013
- [C44] K. Konstanteli, A. Voulodimos, K. Psychas, D. Nicolopoulos, A. Andreadis, S. Crowle, D. Osbourne, A. Yannopoulos, **M. Wallace** and T.A. Varvarigou: A social-aware multimedia system for interactive cultural and educational experiences, proceedings of the international conference on Advances in Social Network Analysis and Mining, pp. 862-869, 2013
- [C43] P. Alexopoulos and **M. Wallace**, Improving Automatic Semantic Tag Recommendation through Fuzzy Ontologies, Proceedings of the 7th International Workshop on Semantic Media Adaptation and Personalization, Luxembourg, 2012
- [C42] **Wallace M.**, P. Alexopoulos, Mylonas P., Identifying Conceptual Layers in the Ontology Development Process, Proceedings of the 7th Hellenic Conference on Artificial Intelligence (SETN 2012), Lamia, Greece, May 28-31, 2012
- [C41] P. Alexopoulos, J. Pavlopoulos, **M. Wallace**, K. Kafentzis, Exploiting Ontological Relations for Automatic Semantic Tag Recommendation, 7th International Conference on Semantic Systems (I-SEMANTICS), Graz, Austria, September 7-9, 2011
- [C40] **M. Wallace**, P. Alexopoulos, I. Papafragkos, C. Vassilakis, Supporting User Roles in Ontology Fuzzification, Proceedings of the 6th International Workshop on Semantic Media Adaptation and Personalization, Vigo, Spain, 2011
- [C39] Alexopoulos P., **M. Wallace**, K. Kafentzis, D. Askounis, A Semantic Architecture for Knowledge Intensive CBR through Fuzzy Ontologies, 15th UK Workshop on Case Based Reasoning, December 14th 2010, Cambridge, UK
- [C38] P. Alexopoulos, **M. Wallace**, K. Kafentzis and D. Askounis, Towards a Methodology for the Engineering of Fuzzy Ontologies, Proceedings of the 7th Extended Semantic Web Conference (ESWC 2010), 30 May - June 3, Heraklion, Greece
- [C37] Alexopoulos P., **Wallace M.**, Kafentzis K., Askounis D. "Towards Effective Knowledge Management Through Fuzzy Semantics", The Third International Multi-Conference on Computing in the Global Information Technology 2009, Cannes, France, August 23-29
- [C36] Alexopoulos P., **Wallace M.**, Kafentzis K., Thomopoulos A., "A Fuzzy Knowledge-based Decision Support System for Tender Call Evaluation", 5th IFIP Conference on Artificial Intelligence Applications & Innovations (AIAI) 2009, Thessaloniki, Greece, April 23-25.
- [C35] Alexopoulos P., **Wallace M.**, Kafentzis K., Michalas A. , "A Fuzzy Ontology Framework for Customized Assessment of Semantic Similarity", 3rd International Workshop on Semantic Media and Adaptation (SMAP 2008), Prague, Czech Republic, December 15-16.
- [C34] I. Anagnostopoulos, Ch. Anagnostopoulos and **M. Wallace**, "Monitoring the Internet evolution adaptation in heavily-visited search services", IEEE International Conference on Systems, Man and Cybernetics, 2007
- [C33] A. Giouris and **M. Wallace**, "Graph Based Workflow Validation", 4th IFIP Conference on Artificial Intelligence Applications & Innovations (AIAI), Athens, Greece, September 2007.

- [C32] S. Ioannou, **M. Wallace** and S. Kollias, "Intelligent Facial Analysis and Expression Recognition", International Joint Conference on Neural Networks (IJCNN), Vancouver, Canada, July 2006.
- [C31] Ph. Mylonas and **M. Wallace**, "Using ontologies and fuzzy relations in the multimedia personalization process", 1st International Workshop on Semantic Media Adaptation and Personalization (SMAP 2006), Athens, Greece, 4-5 December 2006
- [C30] **M. Wallace**, N. Tsapatsoulis, "Combining GAs and RBF Neural Networks for Fuzzy Rule Extraction from Numerical Data", International Conference on Artificial Neural Networks, Warsaw Poland, September 2005.
- [C29] M. Falelakis, C. Diou, **M. Wallace**, A. Delopoulos, "Minimizing Uncertainty in Semantic Identification when Computing Resources are Limited", International Conference on Artificial Neural Networks, Warsaw Poland, September 2005.
- [C28] **M. Wallace** and S. Kollias, Possibilistic Evaluation of Extended Fuzzy Rules in the Presence of Uncertainty, FUZZ-IEEE 2005, May 22-25, Reno, Nevada, USA
- [C27] R. Cowie, E. Douglas-Cowie, J. Taylor, S. Ioannou, **M. Wallace**, S. Kollias, "An Intelligent System for Facial Emotion Recognition", IEEE International Conference on Multimedia & Expo, July 6-8, 2005, Amsterdam, The Netherlands
- [C26] S. Ioannou, **M. Wallace**, K. Karpouzis, A. Raouzaiou and S. Kollias, Confidence-Based Fusion of Multiple Feature Cues for Facial Expression Recognition, FUZZ-IEEE 2005, May 22-25, Reno, Nevada, USA
- [C25] S. Ioannou, **M. Wallace**, K. Karpouzis, A. Raouzaiou and S. Kollias, Combination of Multiple Extraction Algorithms in the Detection of Facial Features, Proceedings of the IEEE International Conference on Image Processing (ICIP), Genova, Italy, September 2005
- [C24] S. Ioannou, **M. Wallace**, K. Karpouzis and S. Kollias, A Robust Scheme for Facial Analysis and Expression Recognition, Measuring Behavior 2005, 5th International Conference on Methods and Techniques in Behavioral Research, Wageningen, The Netherlands, 30 August - 2 September 2005
- [C23] H. Stefanou, S. Kakouros, D. Cavouras, **M. Wallace**, Wavelet-based Mammographic Enhancement, Proceedings of the Fifth International Network Conference (INC), July 2005, Samos, Greece
- [C22] G. Andreou, P. Mylonas, **M. Wallace**, S. Kollias, Offering Access to Personalized Interactive Video, Proceedings of the International Conference on Mathematical Methods and Computational Techniques in Electrical Engineering, December 2004, Vouliagmeni, Athens
- [C21] **M. Wallace**, A. Raouzaiou, N. Tsapatsoulis, S. Kollias, Facial Expression Classification Based on MPEG-4 FAPs: The Use of Evidence and Prior Knowledge for Uncertainty Removal, Proceedings of the IEEE International Conference on Fuzzy Systems (FUZZ-IEEE), Budapest, Hungary, July 2004
- [C20] **M. Wallace**, H. Stefanou, S. Kollias, Iterated Function Systems as Human Perceivable Spectral Tests of Randomness, Proceedings of the International Conference on Non-Linear Analysis, Non-Linear Systems and Chaos (NOLASC), December 2004, Athens, Greece
- [C19] **M. Wallace**, K. Karpouzis, Personalized Content Browsing Based on Notions of Context, Proceedings of the International Conference on Multi-platform e-Publishing, November 2004, Athens, Greece.
- [C18] **M. Wallace**, P. Mylonas, S. Kollias, Automatic Extraction of Semantic Preferences

- from Multimedia Documents, Proceedings of 5th International Workshop on Image Analysis for Multimedia Interactive Services, Lisboa, Portugal, April 2004
- [C17] **M. Wallace**, S. Kollias, Computationally Efficient Incremental Transitive Closure of Sparse Fuzzy Binary Relations, Proceedings of the IEEE International Conference on Fuzzy Systems (FUZZ-IEEE), Budapest, Hungary, July 2004
- [C16] **M. Wallace**, S. Kollias, Robust, Generalized, Quick and Efficient Agglomerative Clustering, Proceedings of 6th International Conference on Enterprise Information Systems, Porto, Portugal, April 2004
- [C15] **M. Wallace**, T. Athanasiadis, Y. Avrithis, Knowledge Assisted Analysis & Categorization for Semantic Video Retrieval, Proc. of International Conference for Image and Video Retrieval (CIVR '04), Dublin, Ireland, July 21-23, 2004.
- [C14] **M. Wallace**, T. Athanasiadis, Y. Avrithis, G. Stamou, S. Kollias, A mediator system for hetero-lingual audiovisual content, Proceedings of the International Conference on Multi-platform e-Publishing, November 2004, Athens, Greece.
- [C13] **M. Wallace**, Y. Avrithis, Fuzzy Relational Knowledge Representation and Context in the Service of Semantic Information Retrieval, Proceedings of the IEEE International Conference on Fuzzy Systems (FUZZ-IEEE), Budapest, Hungary, July 2004
- [C12] P. Mylonas, **M. Wallace**, S. Kollias, Using k-nearest neighbor and feature selection as an improvement to hierarchical clustering, Proceedings of 3rd Hellenic Conference on Artificial Intelligence, Samos, Greece, May 2004
- [C11] **M. Wallace**, G. Akrivas, G. Stamou, Automatic Thematic Categorization of Documents Using a Fuzzy Taxonomy and Fuzzy Hierarchical Clustering, Proceedings of the IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2003), St. Louis, MO, USA, May 2003
- [C10] **M. Wallace**, G. Akrivas, P. Mylonas, Y. Avrithis, S. Kollias, Using context and fuzzy relations to interpret multimedia content, Proceedings of the Third International Workshop on Content-Based Multimedia Indexing (CBMI), IRISA, Rennes, France, September 2003
- [C9] **M. Wallace**, M. Stefanou, K. Karpouzis, S. Kollias, Towards supporting the teaching of history using an intelligent information system that relies on the electronic road metaphor, Proceedings of the 3rd IEEE International Conference on Advanced Learning Technologies (ICALT), Athens, Greece, July 2003
- [C8] **M. Wallace**, P. Mylonas, S. Kollias, Detecting and Verifying Dissimilar Patterns in Unlabelled Data, 8th Online World Conference on Soft Computing in Industrial Applications (WSC8), September - October 2003
- [C7] **M. Wallace**, S. Kollias, Soft Attribute Selection for Hierarchical Clustering in High Dimensions, Proceedings of the International Fuzzy Systems Association World Congress(IFSA), Istanbul, Turkey, June-July 2003
- [C6] N. Tsapatsoulis, **M. Wallace**, S. Kasderidis, Improving the Performance of Resource Allocation Networks through Hierarchical Clustering of High - Dimensional Data, Proceedings of the International Conference on Artificial Neural Networks (ICANN), Istanbul, Turkey, June 2003
- [C5] Y. Avrithis, G. Stamou, **M. Wallace**, F. Marques, P. Salembier, X. Giro, Haas W., H. Vallant, M. Zufferey, Unified Access to Heterogeneous Audiovisual Archives, Proceedings of the 3rd International Conference on Knowledge Management (I-KNOW), Graz, Austria, July 2003.
- [C4] G. Akrivas, **M. Wallace**, G. Andreou, G. Stamou, S. Kollias, Context - Sensitive

- Semantic Query Expansion, Proceedings of the IEEE International Conference on Artificial Intelligence Systems (IC AIS), Divnomorskoe, Russia, September 2002
- [C3] G. Akrivas, **M. Wallace**, G. Stamou, S. Kollias, Context - Sensitive Query Expansion Based on Fuzzy Clustering of Index Terms, Proceedings of Flexible Query Answering Systems 2002, Copenhagen, Denmark, October 27-29, 2002
- [C2] **M. Wallace**, G. Akrivas, G. Stamou, S. Kollias, Representation of user preferences and adaptation to context in multimedia content -- based retrieval, Proceedings of the Workshop on Multimedia Semantics, SOFSEM 2002: Theory and Practice of Informatics, Milovy, Czech Republic, November 22-29, 2002
- [C1] **M. Wallace**, G. Stamou, Towards a Context Aware Mining of User Interests for Consumption of Multimedia Documents, Proceedings of the IEEE International Conference on Multimedia (ICME), Lausanne, Switzerland, August 2002

Διατριβές

- [T1] **Εμμανουήλ Θ. Γουάλλες**, "Ευφυή συστήματα βασισμένα στη γνώση σε αβέβαια περιβάλλοντα – Intelligent knowledge-based systems in uncertain environments", Διδακτορική διατριβή, ΕΜΠ, 2005.

Διπλωματικές

- [T1] **Εμμανουήλ Θ. Γουάλλες**, "Μελέτη και Ανάπτυξη Πλατφόρμας για τη Δημιουργία Διαδικτυακής Εφαρμογής Δημοσίων Σχέσεων", Διπλωματική διατριβή, ΕΜΠ, 2001.

Τεχνικές αναφορές

- [TR1] **M. Wallace**, Συσχετιστική ανάδραση και συστήματα ανάκτησης πληροφορίας, Εργαστήριο Επεξεργασίας Εικόνας Βίντεο και Συστημάτων Πολυμέσων, Τμήμα Ηλεκτρολόγων Μηχανικών και Μηχανικών Ηλεκτρονικών Υπολογιστών, Εθνικό Μετσόβιο Πολυτεχνείο, 2001