

Κατάλογος Επιβεβαιωμένων Ετεροαναφορών του

ΕΜΜΑΝΟΥΗΛ Θ. ΓΟΥΑΛΛΕΣ

για τη Διεκδίκηση Θέσης με Γνωστικό Αντικείμενο  
«Ασαφής Σημασιολογικός Ιστός»

στο Τμήμα Πληροφορικής και Τηλεπικοινωνιών  
του Πανεπιστημίου Πελοποννήσου

Σεπτέμβριος 2014

## Μεθοδολογία σύνταξης καταλόγου

Ο παρόν κατάλογος περιλαμβάνει ενδεικτικές αναφορές και δεν είναι σε καμία περίπτωση εξαντλητικός. Περιλαμβάνει επιβεβαιωμένες ετεροαναφορές. Συγκεκριμένα:

- Από τον κατάλογο έχει εξαιρεθεί κάθε αναφορά που έχει ως (συν-)συγγραφέα οποιονδήποτε από τους (συν-)συγγραφείς της αναφερόμενης εργασίας
- Κάθε αναφορά έχει επιβεβαιωθεί με πρόσβαση στη συγκεκριμένη δημοσιευμένη εργασία και έλεγχο του καταλόγου αναφορών της, ώστε να εξαιρεθούν τυχόν μηχανικά λάθη των αυτοματοποιημένων συστημάτων εξαγωγής καταλόγων αναφορών καθώς και διπλοεγγραφές.

## Κατάλογος ετεροαναφορών

*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 [19 citations]*

- [1] M.C. Angelides and H.W. Agius, An MPEG-7 Scheme for Semantic Content Modelling and Filtering of Digital Video, ACM Multimedia Systems 11(4), pp. 320-339, 2006
- [2] H. Agius and M. C. Angelides, COSMOS-7: Video-Oriented MPEG-7 Scheme for Modelling and Filtering of Semantic Content, The Computer Journal vol. 48 (5), pp. 545-562, June 2005
- [3] Agius, H. and Angelides, M. C. 2004. Modelling and filtering of MPEG-7-compliant meta-data for digital video. In Proceedings of the 2004 ACM Symposium on Applied Computing (Nicosia, Cyprus, March 14 - 17, 2004). SAC '04. ACM, New York, NY, 1248-1252
- [4] T. Ma, Yong-Deak Kim Qiang Ma Meili Tang Weican Zhou, Context-aware implementation based on CBR for smart home, IEEE International Conference on Wireless And Mobile Computing, Networking And Communications, Vol. 4 , pp. 112- 115 August 2005
- [5] Tae-Hun Lim, Jin-Heung Lee and Sang-Uk Shin, Context Aware System for Future Homes, in the Proceedings of the 5th Atlantic Web Intelligence Conference AWIC2007, Fontainbleau, France, June 25 - 27, 2007
- [6] David Vallet, Personalized Information Retrieval in Context Using Ontological Knowledge, Thesis, Universidad Autonoma de Madrid, 2007.
- [7] Karima Amrouche Ihaddadene, Personnalisation de l'accès à l'information multimedia: Efficacite et efficience, Thesis, 2006, Universite de Nantes.
- [8] Walker I.T, Just-in-Time Personalisation of Real-Time Media Content, Proceedings of the Second International Workshop on Semantic Media Adaptation and Personalization, 2007
- [9] Angelides, M. C. and Sofokleous, A. A. 2008. Semantic content ranking through collaborative and content clustering. Neurocomput. 71, 13-15 (Aug. 2008), 2587-2595.
- [10] Marios C. Angelides, Anastasis A. Sofokleous, Minaz J. Parmar: Classified Ranking of Semantic Content Filtered Output Using Self-organizing Neural Networks. ICANN (2) 2006: 55-64
- [11] Ph. Mylonas, P. Tzouveli and S. Kollias, Intelligent content adaptation in the framework of an

- integrated e-learning system, 16th ACM Conf. on Hypertext & Hypermedia - Workshop on Combining Intelligent & Adaptive Hypermedia Methods/Techniques in Web-Based Education Systems, Salzburg, Austria, 6-9/9/2005
- [12] Ph. Mylonas, P. Tzouveli and S. Kollias, E-learning and intelligent content adaptation: an integrated approach, *International Journal of Continuing Engineering Education and Life-Long Learning (IJCEELL)*, Vol. 17, No. 4/5, pp. 273 - 293, Inderscience, September 2007
- [13] Ph. Mylonas, P. Tzouveli, S. Kollias, An integrated approach towards intelligent educational content adaptation, *Emerging Artificial Intelligence Applications in Computer Engineering, Frontiers in Artificial Intelligence and Applications*, vol. 160, IOS Press, Amsterdam, October 2007
- [14] Th. Athanasiadis, Y. Avrithis, Adding Semantics to Audiovisual Content: The FAETHON Project, *Proc. of International Conference for Image and Video Retrieval (CIVR 04)*, Dublin, Ireland, July 21-23, 2004.
- [15] Phivos Mylonas, Giorgos Andreou, Kostas Karpouzis: A Collaborative Filtering Approach to Personalized Interactive Entertainment using MPEG-21, *Emerging Artificial Intelligence Applications in Computer Engineering, Frontiers in Artificial Intelligence and Applications*, vol. 160, IOS Press, Amsterdam, October 2007
- [16] Bingchuan Yuan and John Herbert. 2014. Context-aware hybrid reasoning framework for pervasive healthcare. *Personal Ubiquitous Comput.* 18, 4 (April 2014), 865-881.
- [17] Andre Fonseca dos Santos Dias Vieira, Context-Aware Personalization Environment for Mobile Computing, graduate thesis, Universidade nova de Lisboa, 2012
- [18] Bingchuan Yuan, John Herbert, Hybrid Reasoning Framework for CARA Pervasive Healthcare. *ICOST 2013*: 126-133
- [19] Yuan, Bingchuan, and John Herbert. Transparency Issues in a Hybrid Reasoning Architecture for Assistive Healthcare. *AASRI Procedia* 4 (2013): 268-274.
- 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 (ICAIS), Divnomorskoe, Russia, September 2002 [46 citations]*
- [20] Q.T. Zeng, J. Crowell, R.M. Plovnick, E. Kim, L. Ngo and E. Dibble, Assisting consumer health information retrieval with query recommendations, *Journal of the American Medical Informatics Association*, vol 13(1), pp. 80-90, 2006
- [21] M. Holi, A Method for Modeling Uncertainty in Semantic Web Taxonomies, Graduate Thesis, University of Helsinki, May 2004
- [22] M. Holi and E. Hyvonen, A Method for Modeling Uncertainty in Semantic Web Taxonomies, *Proceedings of the 13th International World Wide Web conference*, New York, 2004
- [23] M. De Cock, S. Guadarrama, M. Nikravesh, Fuzzy Thesauri for and from the WWW, in M. Nikravesh, L.A. Zadeh and J. Kacprzyk (eds.) *Soft Computing for Information Processing and Analysis, Studies in Fuzziness and Soft Computing*, Springer-Verlag, pp. 275-284, 2005
- [24] M. Holi and E. Hyvonen, Fuzzy View-Based Semantic Search, *Proceedings of the First Asian Semantic Web Conference*, Beijing, China, September 3-7, 2006.

- [25] B. Ofoghi, J. Yearwood, R. Ghosh, A semantic approach to boost passage retrieval effectiveness for question answering, ACM International Conference Proceeding Series, Vol. 171: Proceedings of the 29th Australasian Computer Science Conference, Vol. 48, 2006
- [26] M. Baziz, M. Boughanem, Y. Loiseau and H. Prade, Fuzzy Logic and Ontology-based Information Retrieval, in Paul P. Wang, Da Ruan, Etienne E. Kerre (Eds.) Fuzzy Logic: A Spectrum of Theoretical & Practical Issues, pp. 193-218, Springer Berlin / Heidelberg, 2007
- [27] F.P. Romero, A. Soto and J.A. Olivas, A Hybrid Model for Document Clustering Based on a Fuzzy Approach of Synonymy and Polysemy, in O. Castillo, P. Melin, O. Montiel Ross, R. Sepulveda Cruz, W. Pedrycz and J. Kacprzyk (Eds.) Theoretical Advances and Applications of Fuzzy Logic and Soft Computing, pp. 171-179, Springer Berlin / Heidelberg, 2007.
- [28] T.H. Chang and C.H. Lee, Subtopic Segmentation for Small Corpus Using a Novel Fuzzy Model, IEEE Transactions on Fuzzy Systems, vol 15(4), pp. 699-709, 2007
- [29] J.J. Dai, Visual intelligence for online communities: commonsense image retrieval by query expansion, Graduate Thesis, Massachusetts Institute of Technology, 2004
- [30] M.A. Leite and I. Ricarte, Using Multiple Related Ontologies in an Fuzzy Information Retrieval Model, Proceedings of the 3rd Workshop on Ontologies and their Applications, Salvador, Bahia, Brazil, October 26, 2008.
- [31] S. Guadarrama Cotado, A contribution to Computing with Words/Perceptions, PhD Thesis, Polytechnic University of Madrid, 2007
- [32] M.A. Leite and I. Ricarte, Fuzzy Information Retrieval Model Based on Multiple Related Ontologies, Proceedings of the 20th IEEE International Conference on Tools with Artificial Intelligence, 2008.
- [33] D. Vallet, Personalized Information Retrieval in Context Using Ontological Knowledge, PhD Thesis, Universidad Autonoma de Madrid, 2007.
- [34] J. Malecka and V. Rozinajova, An Approach to Semantic Query Expansion, in Tools for Acquisition, Organisation and Presenting of Information and Knowledge: Research Project Workshop, pp.148-153, Bystrá dolina, Nízke Tatry, Slovakia, September 29-30, 2006
- [35] M. Holi and E. Hyvonen, Approximating Overlap Between Concepts in a Semantic Web Taxonomy, Proceedings of the 13th International World Wide Web Conference, May 2004
- [36] M. Holi, E. Hyvonen and P. Lindgren, Integrating tf-idf weighting with fuzzy viewbased search, in the Proceedings of the ECAI Workshop on Text-Based Information Retrieval (TIR-06), Aug 2006.
- [37] L. Hana and G. Chen, HQE: A hybrid method for query expansion, Expert Systems with Applications, vol 36(4), Pages 7985-7991, 2009
- [38] J. Carsten, I. Radusch, S. Steglich, Enhancing Legacy Services through Context-enriched Sensor Data, Proceedings of the International Conference on Internet Computing, pp. 278-287, 2006
- [39] C. Palmisano, A. Tuzhilin and M. Gorgoglione, Using Context to Improve Predictive Modeling of Customers in Personalization Applications, IEEE Transactions on Knowledge and Data Engineering, vol 20(11), pp. 1535-1549, 2008
- [40] I. Radusch, Service Request Oriented Architecture, PhD Thesis, Technical University of Berlin, 2009
- [41] D. Vallet, P. Castells, M. Fernandez, Ph. Mylonas and Y. Avrithis, Personalized Content Retrieval in

- Context Using Ontological Knowledge, IEEE Transactions on Circuits and Systems for Video Technology, vol 17(3), pp. 336-346, 2007
- [42] D. Vallet, M. Fernandez, P. Castells, Ph. Mylonas and Y. Avrithis, Personalized Information Retrieval in Context, 21st National Conference on Artificial Intelligence - 3rd International Workshop on Modeling and Retrieval of Context, Boston, USA, 16-17 July 2006
- [43] S. Dasiopoulou, C. Saathoff, Ph. Mylonas, Y. Avrithis, Y. Kompatsiaris, S. Staab and M.G. Strinztis, Introducing Context and Reasoning in Visual Content Analysis: An Ontology-Based Framework, in Semantic Multimedia and Ontologies, pp. 99-122, Springer London, 2008
- [44] Th. Athanasiadis, Ph. Mylonas and Y. Avrithis, A Context-based Region Labeling Approach for Semantic Image Segmentation, 1st international conference on Semantics And digital Media Technology (SAMT), Athens, Greece, 6-8 December 2006
- [45] Th. Athanasiadis, Y. Avrithis, Adding Semantics to Audiovisual Content: The FAETHON Project, Proc. of International Conference for Image and Video Retrieval (CIVR '04), Dublin, Ireland, July 21-23, 2004.
- [46] X. Giro-i-Nieto, N. Camps, F. Marques, GAT, a Graphical Annotation Tool for semantic regions, Multimedia Tools and Applications, vol 46(2-3), pp. 155-174, 2010
- [47] M. De Cock, S. Guadarrama and M. Nikraves, Constructing Fuzzy Thesauri for the WWW: application to BeMySearch, Proceedings of FLINT-CIBI 2003 50-55, 2003.
- [48] X. Tao, Personalised Ontology Learning and Mining for Web Information Gathering, PhD Thesis, 2009
- [49] G. Adomavicius and A. Tuzhilin, Context-Aware Recommender Systems, in F. Ricci, L. Rokach, B. Shapira and B. Kantor (Eds.) Recommender Systems Handbook, pp. 217-253, 2011
- [50] M. Holi and E. Hyvonen, Probabilistic Information Retrieval Based on Conceptual Overlap in Semantic Web Ontologies, in Proceedings of the 11th Finnish AI Confence, Web Intelligence, vol 2., Finnish AI Society, Finland, 2004.
- [51] F.P. Romero, J.A. Olivas and P.J. Garces, A soft approach to hybrid models for document clustering, in Proceedings of the International Conference on Artificial Intelligence, Las Vegas, USA, 2004
- [52] R. Troncy, B. Huet and S. Schenk, Simon, Multimedia Semantics: Metadata, Analysis and Interaction, Wiley-Blackwell, July 2011
- [53] M. Holi, Crisp, Fuzzy, and Probabilistic Faceted Semantic Search, PhD Thesis, Aalto University, 2010
- [54] S. Hagedorn and K.U. Sattler, Discovery querying in linked open data. In Proceedings of the Joint EDBT/ICDT 2013 Workshops, ACM, New York, NY, USA, pp. 38-44, 2013
- [55] P. Wasilewski, Query Expansion by Semantic Modeling of Information Needs, Proceedings of the international workshop Concurrency, Specification and Programming, 2011
- [56] S.J. Yates, C. Bates, B. Akhgar, L. Jopek, R. Wilson, S.J. Mitchell and S. Killick, The Odyssey Project - Understanding and implementing user needs in the context of ballistic crime data exchange, in B. Akhgar and S.J. Yates (Ed) Intelligence Management - Advanced Information and Knowledge Processing, pp. 11-34, Springer, 2011
- [57] Th. Athanasiadis, Ph. Mylonas, G. Th. Papadopoulos, V. Mezaris, Y. Avrithis, I. Kompatsiaris, M.G.

- Strintzis, Knowledge-Driven Segmentation and Classification, in R. Troncy, B. Huet and S. Schenk (Ed) Multimedia Semantics: Metadata, Analysis and Interaction, pp. 163-182, Wiley, July 2011
- [58] L. Zhang, Contextual Web Search Based on Semantic Relationships: A Theoretical Framework, Evaluation and a Medical Application Prototype, PhD Thesis, The University of Arizona, 2006
- [59] S.J. Yates, B. Akhgar, C.D. Bates, L. Jopek and R. Wilson, A platform for discovering and sharing confidential ballistic crime data, International Journal on Knowledge and Web Intelligence, vol 2(2/3), pp. 202-218, 2011
- [60] A.K. Sharma, N. Duhan and B. Sharma, A semantic search system using query definitions, Proceedings of the First International Conference on Intelligent Interactive Technologies and Multimedia, 2010
- [61] M.Sharma, A. Varshney and P. Agarwal, Semantic search system using query refinement, International Journal of Advance Research in Science and Engineering, vol 2(3), 2013
- [62] A.S. Villaverde, Fuzzy Approach to Conceptual Meaning Processing in Natural Language Documents, PhD Thesis, Universidad de Castilla La Mancha, 2008
- [63] Ph. Mylonas and Y. Avrithis, Multimedia Personalization, in B. Furht (ed.) Encyclopedia of Multimedia, 2nd Edition, Springer, New York, NY, USA, 2008
- [64] N. Duhan and A.K. Sharma, QUESEM: Towards building a Meta Search Service utilizing Query Semantics, International Journal of Computer Science Issues, vol 8(1), pp. 145-154, 2011
- [65] J.L. Leiva Olivencia , Realidad Aumentada bajo Tecnologia Movil basada en el Contexto Aplicada a Destinos Turísticos, PhD Thesis, Universidad de Malaga, 2014

*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 [6 citations]*

- [66] Chen, J., Kraft, D.H., Martin-Bautista, M.J., and Vila, M.-A., Chapter 18: Induction and Inference with Fuzzy Rules for Textual Information Retrieval, in Triantaphyllou, E. and Felici, G. (Eds.), Data Mining and Knowledge Discovery Approaches based on Rule Induction Techniques, Massive Computing Series, Heidelberg, Germany: Springer, 2006, pp. 629-654
- [67] Y.I. Gaoxiang, H.U. Heping, L.U. Zhengding, L.I. Ruixuan, A Novel Web Query Automatic ?xpansion Based on Rough Set, Wuhan University Journal of Natural Sciences, 2006, 11(5): 1167-1171
- [68] Gaoxiang Yi, Heping Hu, Web Query Automatic Expansion Based on Tolerance Rough Set, Joint International Conference on Autonomic and Autonomous Systems and International Conference on Networking and Services, 2005
- [69] Ma Wei et al, Search term expansion of context-sensitive algorithm question, Journal of Dalian Railway Institute, 25(4), 2004
- [70] Th. Athanasiadis, Y. Avrithis, Adding Semantics to Audiovisual Content: The FAETHON Project, Proc. of International Conference for Image and Video Retrieval (CIVR ?04), Dublin, Ireland, July 21-23, 2004.
- [71] P. Dong and W. Ma, Context-Sensitive Query Expansion Algorithm Based on Fuzzy Clustering of Index Terms, Information Science, vol. 22, no. 8, 2004

*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 [3 citations]*

- [72] Th. Athanasiadis, Y. Avrithis, Adding Semantics to Audiovisual Content: The FAETHON Project, Proc. of International Conference for Image and Video Retrieval, Dublin, Ireland, July 21-23, 2004
- [73] U. Markowska-Kaczmar, H. Kwasnicka and M. Paradowski, Intelligent Techniques in Personalization of Learning in e-Learning Systems, in F. Xhafa, S. Caballe, A. Abraham, Th. Daradoumis and A.A. Juan Perez (eds) Computational Intelligence for Technology Enhanced Learning, pp. 1-23, Springer, 2010.
- [74] I.T. Christou, G. Gekas and A. Kyrikou, A Classifier Ensemble Approach to the TV-Viewer Profile Adaptation Problem, International Journal of Machine Learning and Cybernetics, vol 3(4), pp. 313-326, 2012

*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 [2 citations]*

- [75] M. Falelakis, C. Diou and A. Delopoulos, Identification of Semantics: Balancing between Complexity and Validity, in Proc. IEEE Workshop on Multimedia Signal Processing (MMSp), Siena, Italy, October 2004
- [76] M. Falelakis, C. Diou and A. Delopoulos, Semantic identification: balancing between complexity and validity, EURASIP Journal of Applied Signal Processing, pp. 183-183, 2006

*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 [6 citations]*

- [77] S. Dasiopoulou, V. Mezaris, I. Kompatsiaris, V. K. Papastathis and M. G. Strintzis, Knowledge-Assisted Semantic Video Object Detection, IEEE Transactions on Circuits and Systems for Video Technology, vol. 15, no. 10, pp. 1210-1224, October 2005
- [78] Anna Carreras, Ruben Tous, Eva Rodriguez, Jaime Delgado, Giovanni Cordara, Gianluca Francini, Diego Gibellino (2009). A Standards-Based Generic Approach for Complex Multimedia Management. 9th Workshop on Multimedia Metadata (WMM'09) March 19th-20th (in conjunction with CORESA'09), Toulouse, France. 2009
- [79] S. Dasiopoulou, V. K. Papastathis, V. Mezaris, I. Kompatsiaris, and M. G. Strintzis, An Ontology Framework For Knowledge-Assisted Semantic Video Analysis and Annotation, Proc. 4th International Workshop on Knowledge Markup and Semantic Annotation (SemAnnot 2004) at the 3rd International Semantic Web Conference (ISWC 2004), November 2004, Hiroshima, Japan.
- [80] Anna Carreras, Ruben Tous, Eva Rodriguez, Jaime Delgado, Giovanni Cordara, Gianluca Francini, Diego Gibellino (2009). A Standards-Based Generic Approach for Complex Multimedia Management. 9th Workshop on Multimedia Metadata (WMM09) March 19th-20th (in conjunction with CORESA09), Toulouse, France. 2009
- [81] P. Mylonas, Understanding How Visual Context Influences Multimedia Content Analysis

Problems. ;In Proceedings of SETN. 2012, 361-368.

- [82] Anna V. Zhdanova, Specification of Knowledge Acquisition and Modeling of the Process of the Consensus, Knowledge D 2.3.2, 2004

*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 [17 citations]*

- [83] Lee, W.-P., Deploying personalized mobile services in an agent-based environment, Expert Systems with Applications, 32 (4), pp. 1194-1207, 2007
- [84] W.P. Lee, J.H. Wang, A user-centered remote control system for personalized multimedia channel selection, IEEE Transactions on Consumer Electronics, Vol. 50, Issue 4, pp. 1009-1015, Nov. 2004
- [85] WP Lee, JH Wang, A user-centered control system for personalized multimedia channel selection, IEEE International Symposium on Consumer Electronics, pp. 430- 435, September 2004
- [86] Bartolini, P. Ciaccia, M. Patella, The PIBE Personalizable Image Browsing Engine, CVDB, pp. 43-50, 2004
- [87] Bartolini, P. Ciaccia, M. Patella, Adaptively browsing image databases with PIBE, Multimedia Tools Appl., Vol. 31(3), pp. 269-286, 2006
- [88] Jeevan, V.K.J., Padhi, P., A selective review of research in content personalization, Library Review, 55 (9), pp. 556-586, 2006
- [89] C. Vassiliou, D. Stamoulis and D. Martakos, A hybrid content-based clustering architecture: minimising uncertainty in personalised multimedia content, International Journal of Intelligent Systems Technologies and Applications Vol. 1, No.3/4 pp. 319 - 345, 2006
- [90] Joint N., Risk assessment and copyright in digital libraries, Library Review Vol 55(9), pp. 545-548, 2006
- [91] Nikolay Mirenkov, Indirect Learning through Communication, In: Proceedings of the Ninth IASTED International Conference on Internet and Multimedia Systems and Applications, August 15-17, 2005, Honolulu, USA, 442-447.
- [92] Chou, S. and Chang, W. 2008. CyberIR, A Technological Approach to Fight Cybercrime. In Proceedings of the IEEE ISI 2008 Paisi, Paccf, and SOCO international Workshops on intelligence and Security informatics (Taipei, Taiwan, June 17 - 17, 2008). C. C. Yang, H. Chen, M. Chau, K. Chang, S. Lang, P. S. Chen, R. Hsieh, D. Zeng, F. Wang, K. Carley, W. Mao, and J. Zhan, Eds. Lecture Notes In Computer Science, vol. 5075. Springer-Verlag, Berlin, Heidelberg, 32-43.
- [93] Jeevan, V.K.J., Padhi, P., Revising digital library content in response to user requests, Library Review, 55 (9), pp. 549-555, 2006
- [94] Min Gao, Kecheng Liu and Zhongfu Wu, Personalisation in web computing and informatics: Theories, techniques, applications, and future research, Information Systems Frontiers, in press.
- [95] Ha, S.H., Lee, J.H., Dynamic dissemination of personalized content on the web, Journal of Organizational Computing and Electronic Commerce, 19 (2) pp. 96-111, 2009
- [96] Ph. Mylonas, A fuzzy contextual approach towards intelligent educational content adaptation, 2nd International Workshop on Semantic Media Adaptation and Personalization (SMAP 2007),



London, United Kingdom, 17-18 December 2007

- [97] Belle L. Tseng, Ching-Yung Lin, John R. Smith, Using MPEG-7 and MPEG-21 for Personalizing Video, IEEE Multimedia, vol. 11, no. 1, pp. 42-53, Jan. 2004
- [98] Rambharose, T. and Nikov, A. 2010. Computational intelligence-based personalization of interactive web systems. WSEAS Trans. Info. Sci. and App. 7, 4 (Apr. 2010), 484-497
- [99] Claudia Maria Fernandes Araujo Ribeiro, ESCHER: Uma Arquitetura de Qualidade de Serviço para Tratar a Percepção do Usuário, PhD Thesis, Universidade federal de Pernambuco, 2004

*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 [4 citations]*

- [100] Evans T. and Angelov P. Semantic Categorization of Web-Based Documents, Proc. of RASC 2004, Nottingham, United Kingdom, 2004
- [101] Francisco P. Romero, Arturo Peralta, Andres Soto, Jose A. Olivas and Jesus Serrano-Guerrero, Fuzzy optimized self-organizing maps and their application to document clustering, Soft Computing - A Fusion of Foundations, Methodologies and Applications, 2010
- [102] M. Holi and E. Hyvonen, A Method for Modeling Uncertainty in Semantic Web Taxonomies, Proceedings of WWW2004, New York, 2004
- [103] Th. Athanasiadis, Y. Avrithis, Adding Semantics to Audiovisual Content: The FAETHON Project, Proc. of International Conference for Image and Video Retrieval (CIVR 04), Dublin, Ireland, July 21-23, 2004.

*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 [1 citations]*

- [104] Rey-López, M., Díaz-Redondo, R. P., Fernández-Vilas, A., Pazos-Arias, J. J., López-Nores, M., García-Duque, J., Gil-Solla, A., and Ramos-Cabrera, M. 2008. T-MAESTRO and its authoring tool: using adaptation to integrate entertainment into personalized e-learning. Multimedia Tools Appl. 40, 3 (Dec. 2008), 409-451

*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 [1 citations]*

- [105] G. Andreou, Ph. Mylonas and K. Karpouzis, A collaborative filtering approach to personalized interactive entertainment using MPEG-21, 3rd International Conference on Web Information Systems and Technologies (WEBIST 2007), Barcelona, Spain, 3-7 March 2007

*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 [1 citations]*

- [106] Ip A, Fong S, Liu E (2011) Optimization for Allocating BEV Recharging Stations in Urban Areas by Using Hierarchical Clustering, Advanced Information Management and Service (IMS) 6th International Conference, 2010, pp.460-465

*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. [5 citations]*

- [107] O. Nyirubugara, The Memory of the Netherlands: Introducing Cultural Heritage into the New Teaching-Learning Environment, Graduate Thesis, Leiden University, 2006
- [108] Ph. Mylonas, A fuzzy contextual approach towards intelligent educational content adaptation, 2nd International Workshop on Semantic Media Adaptation and Personalization, London, United Kingdom, 17-18 December 2007
- [109] S.C. Hii, S.F. Fong, Effects of Multimedia Redundancy in History Learning among Deep and Surface Students, Asian Social Science, vol 6(6), 2010
- [110] A. Gol, Constructing Knowledge: An Effective Use of Educational Technology in Teaching Islamic Studies in the UK, Education and Information Technologies, vol 17(4), pp. 399-416, 2012
- [111] A. Gol, Developing a Critical Pedagogy of Research-based Teaching in Islamic Studies, Critical Studies on Terrorism, vol 4(3), pp. 431-440, 2011

*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. [31 citations]*

- [112] Yuxia Huang, Semantically enabled personalized recommendations of tour planning over the Internet, Expert Systems with Applications, Vol 36(1), 2009
- [113] J. Zeleznikow, Intelligent Tourism Assistance and Mobile Computing, Proceedings of the Leading Edge Developments in Tourism ICT Workshop, October 2004
- [114] A. Palmer, J.J. Montan, A. Sese, Designing an artificial neural network for forecasting tourism time series, Tourism Management, vol 27(5), pp. 781-790, 2006
- [115] Kuttainen, C., Iliachenko, E., & Salehi-Sangari, E (2005) Pre-Adoption Customer Satisfaction with Tourism Websites: Conjoint Analysis of Electronic Customer Relationship Management Features AM2005 Academy of Marketing Conference, Dublin, Ireland, July 4-7, 2005
- [116] W. Hopken, M. Fuchs, M. Zanker, T. Beer, A. Eybl, S. Flores, S. Gordea, M. Jessenitschnig, T. Kerner, D. Linke, J. Rasinger, M. Schnabl, etPlanner: An IT Framework for Comprehensive and integrative travel guidance, in: ENTER 2006 Proceedings, Information and Communication Technologies in Tourism, Lausanne, Switzerland, 2006
- [117] Kurt Matzler, Martin Waiguny, Anita Toschkov, and Todd A. Mooradian Usability, Emotions and Customer Satisfaction in Online Travel Booking Information and Communication Technologies in Tourism 2006: Proceedings of the International Conference in Lausanne, Switzerland, 2006 Springer
- [118] Y.Huang and L. Bian, A Bayesian network and analytic hierarchy process based personalized recommendations for tourist attractions over the Internet, Expert Systems with Applications, vol 36(1), pp. 933-943, 2009.
- [119] Li, X.-H., Feng, Z.-Y., Zhang, L. Personalization of meta-search engine, Journal of Tianjin University Science and Technology, 41 (5), pp. 616-620 (2008)

- [120] D. Jannach, M. Zanker, M. Fuchs, Constraint-Based Recommendation in Tourism: A Multiperspective Case Study, *Information Technology & Tourism*, Vol. 11, No. 2., pp. 139-155, 2009
- [121] K. Kabassi, Personalizing recommendations for tourists, *Telematics and Informatics*, vol 27(1), pp. 51-66, 2010
- [122] E. Charou, K. Kabassi, A. Martinis, M. Stefouli, Integrating Multimedia GIS Technologies in a Recommendation System for Geotourism, in Tsihrintzis and L.C. Jain (eds) *Multimedia Services in Intelligent Environments*, Springer-Verlag, 2010
- [123] Dietmar Jannach, Markus Zanker, Matthias Fuchs, Constraint-based recommendation in tourism: A multi-perspective case study, *Information Technology & Tourism*, Vol. 11(2)
- [124] Ulrike Bauernfeind, Andreas H. Zins, The Perception of Exploratory Browsing and Trust With Recommender Websites.?, *J. of IT & Tourism*, 2006: 121-136
- [125] Alfonso Palmer, Juan Jose Montano, Albert Sese, Designing an artificial neural network for forecasting tourism time series, *Tourism Management*, Volume 27, Issue 5, October 2006, Pages 781-790
- [126] Y. Huang, Toward semantically enabled on-line tour planning: A conceptual framework and an ontology model, PhD Thesis, State University of New York at Buffalo, 2008
- [127] B. Petrevska, and S. Koceski, Web-based Portal for Tourism Promotion of Macedonia, In proceedings of the International Conference 'The Role of Media in Promotion of Product and Service', Skopje, Macedonia, pp. 744-755, 2012
- [128] Z.B. Sojahrood, M. Taleai, A. Mansourian, Developing a Web-GIS based decision Support systems for tourism planning, In Proceedings of the Asian Conference on Remote Sensing, Hanoi, Vietnam, 2010
- [129] A. García-Crespo, J.L. López-Cuadrado, R. Colomo-Palacios, I. González-Carrasco, and B. Ruiz-Mezcua, Sem-Fit: A semantic based expert system to provide recommendations in the tourism domain, *Expert Systems with Applications*, vol 38(10), 2011.
- [130] F.M. Hsu, Y.T. Lin, T.K. Ho, Design and implementation of an intelligent recommendation system for tourist attractions: The integration of EBM model, Bayesian network and Google Maps, *Expert Systems with Applications*, vol 39(3), pp. 3257-3264, 2012
- [131] W. Hopken, M. Fuchs, G. Holl, D. Keil, and M. Lexhagen, Multi-dimensional data modelling for a tourism destination data warehouse, in L. Cantoni, Z. Xiang (Eds) *Information and Communicatin Technologies in Tourism*, Springer Berlin Heidelberg, 2013
- [132] B. Petrevska and S. Koceski, Recommending Ideal Holiday at National Level, *Journal of Applied Economics and Business*, vol 1(1), pp. 15-22, 2013
- [133] S. Koceski and B. Petrevska, Development of a National Tourism Web Portal with Enriched Recommender: Empirical Evidence, *International Journal of Information, Business and Management*, vol 4(1), pp. 337-355, 2012
- [134] B. Petrevska and S. Koceski, Tourism recommendation system: empirical investigation, *Journal of Tourism*, vol 14, pp. 11-18, 2012

- [135] B. Petrevska and S. Koceski, Web-based platform for enhancing tourism development: An exploratory study, *Journal of Tourism Challenges & Trends*, vol 6(1), pp. 113-129, 2013
- [136] P. Bedi, S.K. Agarwal, V. Jindal and Richa, MARST: Multi-Agent Recommender System for e-Tourism using Reputation Based Collaborative Filtering, In proceedings of the 9th International Workshop on Databases in Networked Information Systems, Aizu, Japan, March 24-26, 2014
- [137] S. Koceski and B. Petrevska, Enhancing tourism promotion by enriched web-based portal, *BH Economic Forum*, vol 4, pp. 259-274, 2012
- [138] S. Koceski and B. Petrevska, Empirical evidence of contribution to e-tourism by application of personalized tourism recommendation system, *Scientific Annals of the Alexandru Ioan Cuza University of Iasy - Economic Sciences Series*, vol 1, pp. 371-383, 2012
- [139] B. Petrevska, M. Pupinoska Gogova and Z. Stamenov, Tourism Recommendation Systems: Analytical Approach, *Yearbook of the Faculty of Computer Science*, vol 1(1), 2013
- [140] R.J. Li and Z. Li, On the Future Development of Tourist Personalized Recommending Service: Temporal and Spatial Integration, *Tourism Tribune*, Issue 10, pp. 82-88, 2011
- [141] S. Koceski and B. Petrevska, Advanced Tourist Trip Planning Using Hybrid Recommender, *Engineering Management Reviews*, vol 2(4), 2013
- [142] N. Koceska, B. Petrevska and S. Koceski, Системи за препораки во туризмот на локално ниво. Еднотера - Скопје, 2013

*M. Wallace, A. Raouzaïou, 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 [9 citations]*

- [143] T. Collins, Facial Dynamics for Identity Recognition, Thesis, The University of Edinburg, August 2006
- [144] E. Cerezo and I. Hupont, Emotional facial expression classification for multimodal user interfaces, *Lecture Notes in Computer Science* 4069, pp. 405-413, 2006
- [145] I. Hupont, S. Baldassarri, R. Hoyo and E. Cerezo, Effective Emotional Classification Combining Facial Classifiers and User Assessment, In Proceedings of the 5th international Conference on Articulated Motion and Deformable Objects, 2008.
- [146] I. Hupont, E. Cerezo, S. Baldassarri, Facial Emotional Classifier For Natural Interaction, *Electronic Letters on Computer Vision and Image Analysis*, vol 7(4), pp. 1-12, 2008.
- [147] E. Cerezo, S. Baldassarri, I. Hupont and F.J. Seron, Affective Embodied Conversational Agents for Natural Interaction, in J. Or (Ed), *Affective Computing*, pp. 329-354, 2008
- [148] M. Schroder and R. Cowie, Developing a consistent view on emotion-oriented computing, In S. Renals and S. Bengio (Eds.), *Machine Learning for Multimodal Interaction*, pp. 194-205, Springer LNCS, 2006
- [149] Assia Khanam, Intelligent expression blending for performance driven facial animation, PhD Thesis, National University of Sciences and Technology, Pakistan, 2008
- [150] Isabelle Hupont, David Abadia, Sandra Baldassarri, Eva Cerezo, Rafael Del-Hoyo, "Facial Affect Sensing for T-learning," 2012 IEEE 24th International Conference on Tools with Artificial

Intelligence, pp. 256-263, 2010 22nd IEEE International Conference on Tools with Artificial Intelligence, 2010

[151] Maedeh Rasoulzadeh, Facial Expression recognition using Fuzzy Inference System, International Journal of Engineering and Innovative Technology (IJEIT), Volume 1, Issue 4, April 2012

*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 [1 citations]*

[152] C. Vassiliou, D. Stamoulis and D. Martakos, A hybrid content-based clustering architecture: minimising uncertainty in personalised multimedia content, International Journal of Intelligent Systems Technologies and Applications Vol. 1, No.3/4 pp. 319 ? 345, 2006

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 [1 citations]

[153] Zhang Hai-ling, Semantic Integration and Retrieval of Multimedia Metadata, Information Science, Volume 25, Issue 7, 2007

*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 [6 citations]*

[154] M. Falelakis, C. Diou and A. Delopoulos : Identification of Semantics: Balancing between Complexity and Validity, in Proc. IEEE Workshop on Multimedia Signal Processing (MMSP), Siena, Italy, October 2004.

[155] N. Mac Parthalain, R. Jensen, and Q. Shen. Finding Fuzzy-Rough Reducts with Fuzzy Entropy. Proceedings of the 2008 IEEE Conference on Fuzzy Systems, Hong Kong. 2008

[156] Falelakis, M., Diou, C., and Delopoulos, A. 2006. Semantic identification: balancing between complexity and validity. EURASIP J. Appl. Signal Process. 2006 (Jan. 2006), 183-183

[157] G. Moreno and V. Pascual. Programando con Igualdad Similar Estricta. In A. Fernandez, editor, Proc. of Campus Multidisciplinar en Percepcion e Inteligencia, CMPI-2006, Albacete, Spain, July 10-14, pages 712-724. Universidad de Castilla-La Mancha, 2006.

[158] Shu-Chen Wang. 2011. Hierarchical clustering in power system based on fuzzy transitive closure. WSEAS Trans. Cir. and Sys. 10, 10 (October 2011), 331-342.

[159] M. O. Incetaş, R. Demirci, H. G. Yavuzcan (2014). Automatic Segmentation of Color Images with Transitive Closure . AEU International Journal of Electronics and Communications, 68(270-276).

*M. Wallace, S. Kollias, Robust, Generalized, Quick and Efficient Agglomerative Clustering, Proceedings of 6th International Conference on Enterprise Information Systems, Porto, Portugal, April 2004 [7 citations]*

[160] G. Antonini and J. Thiran, Counting pedestrians in video sequences using trajectory clustering, IEEE Transactions on Circuits and Systems for Video Technology, Vol. 16, Nr. 8, pp. 1008 - 1020, 2006

[161] Gianluca Antonini, A discrete choice modeling framework for pedestrian walking behavior with application to human tracking in video sequences, Thesis, EPFL, 2005.

- [162] Omid Khayat and Hamid Reza Shahdoosti, Shahyat Algorithm as a Clustering Method, Proceedings Of The European Computing Conference, 151-160, 2009
- [163] Gianluca Antonini, Michel Bierlaire, Mats Weber, Discrete choice models of pedestrian walking behavior, Transportation Research Part B: Methodological, Volume 40, Issue 8, September 2006, Pages 667-687
- [164] Syrris, Vassilis and Petridis, Vassilios. Classification through hierarchical clustering and dimensionality reduction. IJCNN, 2008.
- [165] Masahiro Iwasaki, Kunio Nobori, Moving object detection apparatus and moving object detection method. Patent 20110091073 A1. 2013.
- [166] Karuna Katariya and Rajanikanth Aluvalu. Article: Agglomerative Clustering in Web Usage Mining: A Survey. International Journal of Computer Applications 89(8):24-27, March 2014.

*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 [10 citations]*

- [167] M. Abulaish, L. Dey, Information extraction and imprecise query answering from web documents. Web Intelligence and Agent Systems, Vol. 4(4), pp. 407-429, 2006
- [168] M. Abulaish, L. Dey, A Fuzzy Ontology Generation Framework for Handling Uncertainties and Nonuniformity in Domain Knowledge Description, ICCTA, pp.287-293, 2007
- [169] E.E. Eduardo, L.G. Escovar, C.A. Yaguinuma and M. Biajiz, Using Fuzzy Ontologies to Extend Semantically Similar Data Mining SBBDD, pp.16-30, 2006
- [170] Lipika Dey, Muhammad Abulaish, Rohit Goyal, Kumar Shubham: A Rough-Fuzzy Ontology Generation Framework and Its Application to Bio-medical Text Processing. AWIC 2007: 74-79
- [171] Dey, L. & Abulaish, M.: A Fuzzy Ontology-Based Text Mining System for Knowledge Acquisition, Ontology Enhancement and Query Answering from Bio-Medical Texts, in: G. Fogel, D. Corne, and Y. Pan (eds.), Computational Intelligence in Bioinformatics, IEEE Press series on Computational Intelligence, Wiley/ IEEE Inc., ISBN-9780470105269, 2008.
- [172] Fernando Bobillo Ortega, Managing Vagueness in Ontologies, PhD Dissertation, Universidad de Granada, 2008
- [173] Abulaish, M.: An Ontology Enhancement Framework to Accommodate Imprecise Concepts and Relations, Journal of emerging Technologies in Web Intelligence, Vol. 1, Issue 1, ISSN: 1798-0461, pp. 22-36, 2009
- [174] Valdes, Ariel Racet, Andrade, Rafael A. Espin, Gomez, Jorge Marx, Compensatory Fuzzy Ontology, ICT Innovations 2009 (2010) :35-44, January 01, 2010
- [175] Lipika Dey and Muhammad Abulaish, Fuzzy Ontologies for Handling Uncertainties and Inconsistencies in Domain Knowledge Description, In Proceedings of the IEEE International Conference on Fuzzy Systems (FUZZ-IEEE' 08), the 2008 IEEE World Congress on Computational Intelligence, Hong-Kong, China, pp. 1366-1373, June 1-6, 2008.
- [176] Muhammad Abulaish, Relation Characterization using Ontological Concepts, In Proceedings of the 8th International Conference on Information Technology: New Generations (ITNG' 11), Las

Vegas, Nevada, USA, April 11-13, pp. 585-590, 2011.

*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 [3 citations]*

- [177] Husek D. and Hana Rezankova, Shlukovani a textove dokumenty, Proc. of Robust 2004, Prague, Czech Republic, 2004
- [178] Lee Lancashire and Graham Ball, Computational and Statistical Methodologies for Data Mining in Bioinformatics, in Key Topics in Surgical Research and Methodology, pp. 337-350, Springer Berlin Heidelberg, 2010
- [179] Karuna Katariya and Rajanikanth Aluvalu. Article: Agglomerative Clustering in Web Usage Mining: A Survey. International Journal of Computer Applications 89(8):24-27, March 2014.

*M. Wallace, N. Tsapatsoulis, S. Kollias, Intelligent Initialization of Resource Allocating RBF Networks, Neural Networks 18 (2), pp. 117-122, 2005 [27 citations]*

- [180] S. D'Alton, A Constructive Neural Network Incorporating Competitive Learning of Locally Tuned Hidden Neurons Thesis, University of Tasmania, January 2006
- [181] K. Du and M.N. Swamy, Neural Networks in a Softcomputing Framework, Springer-Verlag, New York, 2006
- [182] W. Pedrycz, H.S. Park and S.K. Oh, A granular-oriented development of functional radial basis function neural networks, Neurocomputing, vol 72, pp 420-4345, 2008.
- [183] H. Tamura and K. Tanno, Midpoint-Validation Method of Neural Networks for Pattern Classification Problems, In Proceedings of the Second international Conference on Innovative Computing, Information and Control, 2007
- [184] M.D. Perez-Godoy, A.J. Rivera Rivas, M.J. del Jesus and I. Rojas, CoEvRBFN: An Approach to Solving the Classification Problem with a Hybrid Cooperative-Coevolutive Algorithm, Proceedings of the 9th International Work-Conference on Artificial Neural Networks, IWANN 2007, San Sebastian, Spain, 2007
- [185] M.G.C.A. Cimino , W. Pedrycz, B. Lazzerini and F. Marcelloni, Using multilayer perceptrons as receptive fields in the design of neural networks, Neurocomputing, vol 72(10-12), pp. 2536-2548, 2009
- [186] H. Tamura and K. Tanno, Midpoint-Validation Method for Support Vector Machine Classification, IEICE Transactions on Information and Systems, vol 7, pp. 2095-2098, 2008
- [187] M.D. Perez, A.J. Rivera Rivas, M.J. del Jesus, I. Rojas. Optimizacion de coevrbf para aumentar su eficiencia en tareas de clasificacion, Simposio De Inteligencia Computacional, Zaragoza, Septiembre 2007
- [188] R. Eickhoff, Fehlertolerante neuronale Netze zur Approximation von Funktionen, Universitat Paderborn, Germany, PhD Thesis, 2007
- [189] F. Xue, L. Ge and B. Wang, Pipelined Genetic Algorithm Initialized RAN Based RBF Modulation Classifier, In Proceedings of the 6th international Symposium on Neural Networks: Advances in Neural Networks - Part II, Wuhan, China, May 26-29, 2009.

- [190] H.S. Park and S.K. Oh, The Design of granular-based radial basis function neural network by context-based clustering, Transactions of the Korean Institute of Electrical Engineers, vol 58(6) pp. 1230-1237, 2009
- [191] J. Luengo, S. Garcia, F. Herrera, A Study on the Use of Imputation Methods for Experimentation with Radial Basis Function Network Classifiers Handling Missing Attribute Values: The good synergy between RBFs and EventCovering method, Neural Networks, vol 23(3), pp. 406-418, 2010
- [192] Y.N. Hettiarachchi and H.L. Premaratne, A New Parameter Determining Mechanism for Radial Basis Neural Networks, In Proceedings of the 8th international Conference on Hybrid intelligent Systems, September 10-12, 2008
- [193] L. Chong, P. Yong-Jie, and L. Ye, 2009, Fuzzy neural network controller for AUV based on RAN, In Proceedings of the 21st Annual international Conference on Chinese Control and Decision Conference, Guilin, China, June 17 - 19, 2009
- [194] J.G. Juang, L.H. Chien and F. Lin, Automatic Landing Control System Design Using Adaptive Neural Network and Its Hardware Realization, IEEE Systems Journal, vol 5(2), pp. 266-277, 2011.
- [195] Y. Wu, H. Wang, B. Zhang and K.L. Du, Using Radial Basis Function Networks for Function Approximation and Classification, ISRN Applied Mathematics, Article ID 324194, 2012
- [196] G.F. Pan, P. He, Y.T. Zhou and W.X. Gao, Study of RAN and its application in temperature compensation for sensors, Proceedings of the 31st Chinese Control Conference Control Conference (CCC), pp. 3335-3340, 2012
- [197] V. Kurkova and P.C. Kainen, Comparing fixed and variable-width gaussian networks, Neural Networks, 2014
- [198] W. Qi, D. Li, Q. Jin, A resource-allocating network based on local conditions and its application in prediction of nonlinear systems, Proceedings of the World Congress on Intelligent Control and Automation (WCICA), 2012
- [199] X. Li, Z. Yang, F. Gu and C. Miao, Research and implementation of mine high voltage switch permanent magnetic actuator intelligent control technology, Proceedings of International Conference on Computer Design and Applications (ICDDA), 2010
- [200] W. Song, J.Z. Liang, X.L. He and P. Chen, Taking advantage of improved resource allocating network and latent semantic feature selection approach for automated text categorization, Applied Soft Computing, 2014
- [201] T. Kim and Y. Lee, A study on modified MLP learning using pretrained RBM, Proceedings of Korean Information Science Society Conference, vol 34(1), pp. 380-384, 2007
- [202] T. Kim, A study on modified MLP learning using pretrained RBM, Graduate Thesis, Yonsei University Graduate School of Computer Science, 2007
- [203] Cheng Junyu, Jin Qibing, Li Dazi, Qi Wenyuan, Quasi steady state compensation control based on RAN-LC prediction and its application, Computers and Applied Chemistry, issue 12, pp. 1521-1524, 2013
- [204] L.M. Dai, Y.L. Chen, X. Liu, J.T. Zhou, F.M. Zhao, Y.H. Suo, W.B. Gao, D. Lou, A mineral resource



potential mapping model based on RBF neural networks, *Geophysical and Geochemical Exploration*, vol 35(1), pp. 103-108, 2011

- [205] Y.D. Chung, H.S. Park, H.K. Kim and S.K. Oh, Nonlinear Characteristic Analysis of Charging Current for Linear Type Magnetic Flux Pump Using RBFNN, *Journal of Korean Institute of Intelligent Systems*, vol 20 (1), pp. 140-145, 2010
- [206] Zhang Y., Chen D., Han Y., Liu D., Surrogate model of radial basis function networks based on width factor sensitivity analysis, *CAAI Transactions on Intelligent Systems*, Vol 9, no 2, Apr 2014

*M. Wallace, Y. Avrithis, G. Stamou, S. Kollias, Knowledge-based Multimedia Content Indexing and Retrieval, Stamou G., Kollias S. (Editors), Multimedia Content and Semantic Web: Methods, Standards and Tools, Wiley, 2006 [7 citations]*

- [207] M. Falelakis, C. Diou and A. Delopoulos, Identification of Semantics: Balancing between Complexity and Validity, in *Proc. IEEE Workshop on Multimedia Signal Processing (MMSP)*, Siena, Italy, October 2004.
- [208] Falelakis, M., Diou, C., and Delopoulos, A. 2006. Semantic identification: balancing between complexity and validity. *EURASIP J. Appl. Signal Process.* 2006 (Jan. 2006), 183-183
- [209] Stelios Piperidis and Harris Papageorgiou, REVEAL THIS: retrieval of multimedia multilingual content for the home user in an information society, *The 2nd European Workshop on the Integration of Knowledge, Semantics and Digital Media Technology, EWIMT 2005*, 2005, pp. 461-465
- [210] Daniel Bortey. Die Verwendung des MPEG-7 Standards in der Szenen Interpretation. *Studienarbeit, TU Hamburg-Harburg*, October 2005.
- [211] Cong Phuong Nguyen, Thi Ngoc Yen Pham, Eric Castelli, First Steps to an Audio Ontology-Based Classifier for Telemedicine, *Second International Conference on Advanced Data Mining and Applications*, China, 2006
- [212] E. Diamant, In Quest of Image Semantics: Are We Looking for It Under the Right Lamppost?. *CoRR*, abs/cs/0609003, 2006
- [213] K. Berte, L. Hauttekeete, *Broadband for Culture, a Culture for Broadband*, Abstracts IDeoGRAMS conference, Leicester, 2007.

*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 [16 citations]*

- [214] Ammar, M. B. and Neji, M. 2006. A multi-agent based system for affective peer-e-learning. In *Proceedings of the 2nd international Conference on Mobile Multimedia Communications (Alghero, Italy, September 18 - 20, 2006)*. *MobiMedia '06*, vol. 324. ACM, New York, NY, 1-6
- [215] Ben Ammar, M., Alimi, A. M., Neji, M., and Gouarderes, G. 2007. Agent-based collaborative affective e-learning system. In *Proceedings of the First international Conference on Immersive Telecommunications (Bussolengo, Verona, Italy, October 10 - 12, 2007)*
- [216] Mohamed Ben ammar, Mahmoud Neji, Adel. M Alimi et al., *The Affective Tutoring System, Expert Systems with Applications* (2009)

- [217] Neji, M. & Ben Ammar, M. (2007) Agent-based Collaborative Affective e-learning framework, The Electronic Journal of e-Learning, 5(2), 123-134.
- [218] McIntyre, G. and Gocke, R. 2008. The Composite Sensing of Affect. In Affect and Emotion in Human-Computer interaction: From theory To Applications, C. Peter and R. Beale, Eds. Lecture Notes In Computer Science, vol. 4868. Springer-Verlag, Berlin, Heidelberg, 104-115
- [219] Kang, S. and Park, S. 2009. A fusion neural network classifier for image classification. Pattern Recogn. Lett. 30, 9 (Jul. 2009), 789-793.
- [220] Vanhala, T. and Surakka, V. (2008). Computer-assisted regulation of emotional and social processes. In Or, J. (Ed.) Affective Computing: Focus on Emotion Expression, Synthesis, and Recognition, pp. 405-420. I-Tech Education and Publishing, Vienna, Austria.
- [221] Rajshree Mandal, Anisha Halder, Pavel Bhowmik, Amit Konar, Aruna Chakraborty, Atulya K. Nagar , Uncertainty management in type-2 fuzzy face-space for emotion recognition, FUZZ-IEEE 2011
- [222] Mohamed Ben Ammar, Mahmoud Neji, Adel. M. Alimi, and Guy Gouardères. 2010. The Affective Tutoring System. Expert Syst. Appl. 37, 4 (April 2010), 3013-3023.
- [223] Mahdi Ilbeygi, Hamed Shah-Hosseini, A novel fuzzy facial expression recognition system based on facial feature extraction from color face images, Engineering Applications of Artificial Intelligence, Volume 25, Issue 1, February 2012, Pages 130-146
- [224] Kanlaya Rattanyu and Makoto Mizukawa, Emotion Recognition Based on ECG Signals for Service Robots in the Intelligent Space During Daily Life, Journal of Advanced Computational Intelligence and Intelligent Informatics, Vol.15, No.5, pp. 582-591, 2011
- [225] Damir Filko and Goran Martinovic, Emotion Recognition System by a Neural Network Based Facial Expression Analysis, AUTOMATIKA: Journal for Control, Measurement, Electronics, Computing and Communications, Vol.54 No.2 May 2013.
- [226] Halder A., Konar A., Mandal R., Chakraborty A., Bhowmik P., Pal N.R., Nagar A.K., General and Interval Type-2 Fuzzy Face-Space Approach to Emotion Recognition, Systems, Man, and Cybernetics: Systems, IEEE Transactions on , vol.43, no.3, pp.587,605, May 2013
- [227] Halder A., Mandal R., Konar A., Chakraborty A., Janarthanan R., Emotion recognition from facial expression using general type-2 fuzzy set, Recent Trends in Information Systems (ReTIS), 2011 International Conference on , vol., no., pp.263,268, 21-23 Dec. 2011
- [228] M.T. Quazi, Human emotion recognition using smart sensors, Graduate thesis, Massey University, 2013
- [229] Martin Wollmer, Context-Sensitive Machine Learning for Intelligent Human Behavior Analysis, PhD Thesis, Technische Universität München, 2013
- S. Ioannou, M. Wallace, K. Karpouzis, A. Raouzaïou and S. Kollias, Confidence-Based Fusion of Multiple Feature Cues for Facial Expression Recognition, FUZZ-IEEE 2005, May 22-25, Reno, Nevada, USA [5 citations]*
- [230] H. Ibrahim, P.K. Atrey, A. El Saddik, Semantic similarity based trust computation in websites, Proceedings of the ACM International Multimedia Conference and Exhibition, pp. 65-72, 2007
- [231] P.K. Atrey, M.S. Kankanhalli and A. El Saddik, Confidence building among correlated streams in

multimedia surveillance systems, International Conference on Multimedia Modeling, pp 155-164, January, 2007, Singapore.

- [232] P.K. Atrey and A. El Saddik, Confidence Evolution in Multimedia Systems, IEEE Transactions on Multimedia, Vol. 10, Issue 7, pp 1288-1298, November 2008
- [233] T. Xiang, M. K. Leung and S.Y. Cho, Expression recognition using fuzzy spatio-temporal modeling, Pattern Recognition, vol 41(1), pp. 204-216, 2008
- [234] F. Chen, Z. Wang, Z. Xu, Y. Wang and F. Liu, A Facial Expression Recognition Algorithm Based on Feature Fusion, In proceeding of PACIIA 2008, Volume 1, 2008 IEEE Pacific-Asia Workshop on Computational Intelligence and Industrial Application, Wuhan, China, 19-20 December 2008

*S. Ioannou, M. Wallace, K. Karpouzis, A. Raouzaïou 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 [5 citations]*

- [235] A.A. Salah and L. Akarun, Gabor factor analysis for 2D+3D facial landmark localization, IEEE 14th IEEE Signal Processing and Communications Applications Conference, 2006
- [236] C.L. Lam, M. Eizenman and P. Aarabi, Eye-controlled computer interface with natural head movements, 30th Canadian Medical and Biological Engineering Conference: Improving Medical Device Usability, 2007
- [237] L. Prevost, R. Belaroussi, M. Milgram, Multiple Neural Networks for Facial Feature Localization in Orientation-Free Face Images, Proceedings of the Second international conference on Artificial Neural Networks in Pattern Recognition, pp. 188-197, Ulm, Germany, August 31-September 2, 2006
- [238] A.A. Salah, Biologically Motivated 3D Face Recognition, Ph.D. Thesis, Bogazici University, 2007
- [239] H. Dibeklioglu, A.A. Salah, and T. Gevers, Robust Landmark Localization and Tracking for Improved Facial Expression Analysis, Proceedings of the ASCI Conference 2010, Veldhoven, The Netherlands, 2010.

*H. Stefanou, S. Kakouros, D. Cavouras, M.Wallace, Wavelet-based Mammographic Enhancement, Proceedings of the Fifth International Network Conference (INC), July 2005, Samos, Greece [1 citations]*

- [240] M. Biltawi, N. Al-Najdawi, S. Tedmori, Mammogram enhancement and segmentation methods: classification, analysis, and evaluation, 13th international Arab conference on information technology, 2012

*M. Wallace, Intelligent knowledge-based systems in uncertain environments, Ph.D. Thesis, School of Electrical and Computer Engineering, National Technical University of Athens, 2005 [1 citations]*

- [241] P. Tzouveli, Multimedia content analysis and users' categorization in learning environment, PhD Thesis, National Technical University of Athens, School of Electrical and Computer Engineering, July 2009.

*M. Wallace, Th. 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 [2 citations]*

- [242] J. Maier, S. Anandan, V. Bapat, J.D. Summers, B. Bettig, A Computational Framework for Semantically Rich Design Problems Based on the Theory of Affordance and Exemplar Technology, Proceedings of ICED, Paris France, August 27-30, 2007
- [243] R. Parekh, N. Sharda, Abstractions in Intelligent Multimedia Databases: Application of Layered Architecture and Visual Keywords for Intelligent Search, in Li Yan, Zongmin Ma (Eds.), Intelligent Multimedia Databases and Information Retrieval: Advancing Applications and Technologies (IMDIR), pp. 195-220, IGI Global, 2011

*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 [1 citations]*

- [244] M. Ghannad-Rezaie and H. Soltanian-Zadeh, Interactive Knowledge Discovery for Temporal Lobe Epilepsy, in Eugenia G. Giannopoulou (Ed), Data Mining in Medical and Biological Research, I-Tech, Vienna, Austria, 2008

*Th. Athanasiadis, M. Wallace, K. Karpouzis, S. Kollias, Utilization of evidence theory in the detection of salient regions in successive CT images, Oncology Reports, Vol. 15, pp. 1071-1076, May 2006 [4 citations]*

- [245] D.Tz. Dimitrov, V. M. Georgieva, Application of Apparatus for Magneto Therapy in Stomatology and Computer Treatment of X-ray Images before and after Therapy, Electronics and Electrical Engineering 3(91), pp 39-42, 2009
- [246] V.M. Georgieva, An Approach for Computed Tomography Images Enhancement, Electronics and Electrical Engineering 2(98), pp. 71-74, 2010
- [247] C. Liu, . Ma and Z. Cui, Multi-source remote sensing image fusion classification based on DS evidence theory, Proc. SPIE 6790, MIPPR 2007: Remote Sensing and GIS Data Processing and Applications; and Innovative Multispectral Technology and Applications, 67903C, November 14, 2007
- [248] V. Georgieva, R. Kountchev and I. Draganov, An Adaptive Approach for Noise Reduction in Sequences of CT Images in B. Iantovics and R. Kountchev (Eds), Advanced Intelligent Computational Technologies and Decision Support Systems, Studies in Computational Intelligence Vol 486, pp 43-52, Springer International Publishing, 2014

*M. Wallace, Y. Avrithis and S. Kollias, Computationally efficient sup-t transitive closure for sparse fuzzy binary relations, Fuzzy Sets and Systems 157(3), pp. 341-372, 2006 [15 citations]*

- [249] R. Jensen and Q. Shen, New approaches to fuzzy-rough feature selection, IEEE Transactions on Fuzzy Systems, vol 14, no 4, pp 828-838, 2009
- [250] W. Pedrycz and F. Gomide, Fuzzy Systems Engineering: Toward Human-Centric Computing, August 2007, Wiley-IEEE Press
- [251] N. MacParthalain, R. Jensen and Q. Shen, Finding Fuzzy-rough Reducts with Fuzzy Entropy, Proceedings of the 17th International Conference on Fuzzy Systems, 2008.
- [252] L. Garmendia, A. Salvador, and J. Montero, Computing a T-transitive lower approximation or opening of a proximity relation, Fuzzy Sets and Systems 160(14), 2009
- [253] N. Mac Parthalain, Rough Set Extensions for Feature Selection, PhD Thesis, Aberystwyth

University, Wales, 2009

- [254] A. Mirzaei, M. Rahmati, M., A novel hierarchical-clustering-combination scheme based on fuzzy-similarity relations, *IEEE Transactions on Fuzzy Systems*, 18 (1), pp. 27-39, 2010
- [255] R. Jensen and Q. Shen, *Computational Intelligence and Feature Selection: Rough and Fuzzy Approaches*, Wiley-IEEE Press, 2008
- [256] R. Jensen, A. Tuson, S. Qiang, Extending propositional satisfiability to determine minimal fuzzy-rough reducts, *IEEE International Conference on Fuzzy Systems*, 18-23 July 2010
- [257] J. Ignjatovic, M. Ciric, V. Simovic, Fuzzy relation equations and subsystems of fuzzy transition systems, *Knowledge-Based Systems*, vol 38, pp 48-61, 2013
- [258] N. MacParthalain, R. Jensen, Q. Shen, Finding Fuzzy-rough Reducts with Fuzzy Entropy, *IEEE International Conference on Fuzzy Systems*, Cadair, 2008
- [259] X. Kang , D. Li , S. Wang, K. Qu, Formal concept analysis based on fuzzy granularity base for different granulations, *Fuzzy Sets and Systems*, 203, p.33-48, September, 2012
- [260] R. Jensen, A. Tuson, Q. Shen, Finding rough and fuzzy-rough set reducts with SAT, *Information Sciences: an International Journal*, 255, p.100-120, January, 2014
- [261] G.N. Deng, K. Hu and H.X. Li, Algorithms for computing the optimal transitive approximation of a proximity relation, *Soft Computing*, vol 15, pp. 1023-1038, 2011
- [262] W. Pedrycz, P. Ekel and R. Parreiras, *Fuzzy Multicriteria Decision-Making: Models, Methods and Applications*, John Wiley & Sons, Jun 15, 2011
- [263] J. Ignjatovic, M. Ciric, B. Seselja and A. Tepavcevic, Fuzzy relational inequalities and equations, fuzzy quasi-orders, closures and openings of fuzzy sets, *Fuzzy Sets and Systems*, 2014

*M. Wallace, S. Ioannou, A. Raouzaïou, K. Karpouzis, S. Kollias, 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 [3 citations]*

- [264] I. Maglogiannis, D. Vouyioukas and C. Aggelopoulos, Face detection and recognition of natural human emotion using Markov random fields, *Personal and Ubiquitous Computing*, vol 13(1) , pp. 95-101, 2009
- [265] D. Tzovaras, *Multimodal User Interfaces: From Signals to Interaction*, Signals and Communication Technology Series, Springer, 2008
- [266] G. Caridakis, *Emotion Analysis in Natural Human Computer Interaction*, PhD Thesis, National Technical University of Athens, School of Electrical and Computer Engineering, 2009

*I. Maglogiannis, K. Karpouzis, M. Wallace, Image And Signal Processing for Networked eHealth Applications, Morgan & Claypool Publishers, 2006 [7 citations]*

- [267] Cristina Ogescu , Claudiu Plaisanu , Daniel Bistriceanu, Management of clinical case studies in virtual medical communities, *Proceedings of the 8th conference on Applied informatics and communications*, p.90-94, August 20-22, 2008, Rhodes, Greece
- [268] Zhanli Hu, Hairong Zheng, Jianbao Gui, A fast reading and processing method of batch human CT image data, *ISECS International Colloquium on Computing, Communication, Control, and*

Management, pp.202-204, 8-9 Aug. 2009

- [269] Stoicu-Tivadar, V., Berian, D., A generic approach for interfacing databases and devices, 5th International Symposium on Applied Computational Intelligence and Informatics, 28-29 May 2009
- [270] Hussein, S. E. 2009. Picture Archiving and Communication System Analysis and Deployment. In Proceedings of the Uksim 2009: 11th international Conference on Computer Modelling and Simulation (March 25 - 27, 2009)
- [271] Cristina Elena Turcu, Cornel Turcu, Valentin Popa, An RFID-Based System for Emergency Health Care Services, International Conference on Advanced Information Networking and Applications Workshops, 2009
- [272] Chiuchisan I. and Oana G., An Approach of a Decision Support and Home Monitoring System for Patients with Neurological Disorders using Internet of Things Concepts. WSEAS Transactions on Systems 13 (2014).
- [273] Badr, Sherif M. Secured Hierarchically Dependent Distributed Database Model Applied to Hospitals Information System (HIS). IJCA (0975-8887) Volume (2013).

*M. Wallace, Ph. Mylonas, G. Akrivas, Y. Avrithis and S. Kollias, Automatic thematic categorization of multimedia documents using ontological information and fuzzy algebra, in Ma, Z. (Ed.) Soft Computing in Ontologies and Semantic Web, Springer, Studies in Fuzziness and Soft Computing, vol 204, 2006 [3 citations]*

- [274] F. Bobillo, Managing Vagueness in Ontologies, PhD Dissertation, Universidad de Granada, 2008
- [275] P. Alexopoulos, C. Ruiz, B. Villazon-Terrazas, J.-M. Gómez-Pérez, KLocator: An Ontology-Based Framework for Scenario-Driven Geographical Scope Resolution, International Journal On Advances in Intelligent Systems, vol 6(3/4), 2013
- [276] A. Gounaris, S. Dasiopoulou and I. Parissi, State-of-the-art Report on Multimedia Reasoning, KSpace Project Deliverable KS-ID4.3, 2006
- S. Ioannou, M. Wallace and S. Kollias, Intelligent Facial Analysis and Expression Recognition, International Joint Conference on Neural Networks (IJCNN), Vancouver, Canada, July 2006 [1 citations]
- [277] A. Panning, A. Al-Hamadi, R. Niese, and B. Michaelis, Facial expression recognition based on haar-like feature detection, Pattern Recognition and Image Analysis, vol. 18, no. 3, pp. 447-452, 2008

*Ph. Mylonas and M. Wallace, Using ontologies and fuzzy relations in multimedia personalization, 1st International Workshop on Semantic Media Adaptation and Personalization, Athens, Greece, 4-5 December 2006 [7 citations]*

- [278] B. Kohncke and W.T. Balke, Preference-driven personalization for flexible digital item adaptation, Multimedia Systems, vol 13(2), pp. 119-130, 2007
- [279] Y. Jiang and H. Dong, Uncertain Context Modeling of Dimensional Ontology Using Fuzzy Subset Theory, Proceedings of the 2nd international Conference on Scalable Uncertainty Management, 2008.
- [280] M. Bernas and J. Piecha, Web Databases Descriptors Defined by Means of Pseudo - Natural Language Items, Proceedings of the 2009 international Conference on Computational Aspects of

Social Networks , 2009

- [281] Anna Carreras, Ruben Tous, Eva Rodriguez, Jaime Delgado, Giovanni Cordara, Gianluca Francini, Diego Gibellino. A Standards-Based Generic Approach for Complex Multimedia Management. Journal of Digital Information Management (JDIM), Special issue on context-aware and mobile multimedia databases and services, 2009
- [282] V. Mezaris, I. Kompatsiaris and M.G. Strintzis, A knowledge-based approach to domain-specific compressed video analysis, IEEE International Conference on Image Processing, pp. 341-344, Singapore, 2004
- [283] S. Dasiopoulou, V.K. Papastathis, V. Mezaris, I. Kompatsiaris, and M.G. Strintzis, An Ontology Framework For Knowledge-Assisted Semantic Video Analysis and Annotation, Proc. 4th International Workshop on Knowledge Markup and Semantic Annotation (SemAnnot 2004) at the 3rd International Semantic Web Conference (ISWC 2004), November 2004, Hiroshima, Japan
- [284] Y. Naudet, V. Groues and M. Foulonneau, Introduction to Fuzzy-Ontological Context-Aware Recommendations in Mobile Environments, 1st International Workshop on Adaptation, Personalization and Recommendation in the Social-semantic Web, Heraklion, Greece, 2010

*I. Maglogiannis, K. Karpouzis, J. Soldatos, M. Wallace M. (Eds.), Emerging Artificial Intelligence Applications in Computer Engineering, IOS Press, 2007 [7 citations]*

- [285] Mota, Natalia B., et al. Speech graphs provide a quantitative measure of thought disorder in psychosis. PloS one 7.4 (2012): e34928.
- [286] Auffarth, Benjamin, Agustín Gutierrez-Galvez, and Santiago Marco. Statistical analysis of coding for molecular properties in the olfactory bulb. Frontiers in systems neuroscience 5 (2011).
- [287] Hall, Timothy, Madan Mohan Dabbeeru, and Satyandra K. Gupta. A New Approach for Explicit Construction of Moldability Based Feasibility Boundary for Polymer Heat Exchangers. ASME 2011 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference. American Society of Mechanical Engineers, 2011.
- [288] Mota, Natalia B., et al. Graph analysis of dream reports is especially informative about psychosis. Scientific reports 4 (2014).
- [289] Dragomir, Elia Georgiana. "Teaching Performance Evaluation Using Supervised Machine Learning Techniques." The 5th International Conference on Virtual Learning ICVL. 2010.
- [290] Jonnalagadda, Siddhartha, and Diana Petitti. "A new iterative method to reduce workload in systematic review process." International journal of computational biology and drug design 6.1 (2013): 5-17.
- [291] Hall, Timothy. Manufacturability Analysis of Thermally-Enhanced Polymer Composite Heat Exchangers. Diss. 2011.

*I. Maglogiannis, M. Wallace, K. Karpouzis (Eds.), Image, Signal and Distributed Data Processing for Networked eHealth Applications, IEEE Engineering in Medicine and Biology Magazine, Volume 26, Issue 5, 2007 [6 citations]*

- [292] Gnechi J.A.G., Vargas F.O., Peregrino V.H.O., Espinoza D.L., Design and Construction of a Continuous Ambulatory Electrocardiogram Recorder, Auxiliary in the Detection of Cardiac

- Arrhythmias, Electronics, Robotics and Automotive Mechanics Conference (CERMA), 2010 , vol., no., pp.602,606, Sept. 28 2010-Oct. 1 2010
- [293] D.Ladeira, L.M.Correia, eMobility – Strategic Applications Agenda, Version 3, eMobility, 2010
- [294] Gnecchi J.A.G., de Jesus Valencia Herrejon A., del Carmen Tellez Anguiano A., Patino A.M., Espinoza D.L., Advances in the Construction of ECG Wearable Sensor Technology: The ECG-ITM-05 eHealth Data Acquisition System, Electronics, Robotics and Automotive Mechanics Conference (CERMA), pp.338,342, 19-23 Nov. 2012
- [295] Jose Antonio Gutierrez Gnecchi, Daniel Lorias Espinoza and Victor Hugo Olivares Peregrino, Microcontroller-based Biopotential Data Acquisition Systems: Practical Design Considerations, in Michele Vadursi (Ed.) Data Acquisition, 2010
- [296] Zhanli Hu, Hairong Zheng, Jianbao Gui, A fast reading and processing method of batch human CT image data, Computing, Communication, Control, and Management, 2009. CCCM 2009. ISECS International Colloquium on, vol.1, pp.202,204, 8-9 Aug. 2009
- [297] Lucio Martins da Silva, Compressao de sinais electromiograficos usando condificador multitaxa preditivo adaptativo, graduate thesis, Universidade de Brasilia, 2009

*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 [4 citations]*

- [298] J. Ignjatovic, M. Ciric, V. Simovic, Fuzzy relation equations and subsystems of fuzzy transition systems, Knowledge-Based Systems, vol 38, pp 48-61, 2013
- [299] J. Ignjatovic, M. Ciric, B. Seselja and A. Tepavcevic, Fuzzy relational inequalities and equations, fuzzy quasi-orders, closures and openings of fuzzy sets, Fuzzy Sets and Systems, 2014
- [300] J. Jaskolka, R. Khedri and K.E. Sabri, Information Leakage via Protocol-Based Covert Channels: Detection, Automation, and Applications, Technical Report CAS-11-05-RK, Department of Computing and Software, McMaster University, August 23, 2011
- [301] Jason Jaskolka, Ridha Khedri, Khair Eddin Sabri, Investigative Support for Information Confidentiality Part I: Detecting Confidential Information Leakage via Protocol-based Covert Channels, Procedia Computer Science, Volume 34, 2014, Pages 276-285

*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 [9 citations]*

- [302] F. Bobillo, Managing Vagueness in Ontologies, PhD Dissertation, Universidad de Granada, 2008
- [303] Y. Xiaogang, T. Ye, P. Tao, Ch. Canfeng, M. Jian, Semantic-Based Graph Index for Mobile Photo Search, Second International Workshop on Education Technology and Computer Science, vol. 3, pp.193-197, 2010
- [304] D. Liu, M.-L. Shyu, Ch. Chen, Sh.-Ch. Chen, Integration of global and local information in videos for key frame extraction, IEEE International Conference on Information Reuse and Integration, pp.171-176, 4-6 Aug. 2010
- [305] D. Beneventano, S. Bergamaschi, C. Gennaro, F. Rabitti, A mediator-based approach for



- integrating heterogeneous multimedia sources, *Multimedia Tools and Applications*, vol 55, pp. 1-24, 2011
- [306] R. Walsh, A. Issa, M. Helpingstine. E-reader Semantic Text Manipulation. Patent US 8365059 B2. 29 Jan. 2013.
- [307] N. Elleuch, A.B. Ammar, A. Alimi, A generic framework for semantic video indexing based on visual concepts/contexts detection, *Multimedia Tools and Applications*, pp. 1-25, 2014
- [308] E. Hyvonen, Publishing and Using Cultural Heritage Linked Data on the Semantic Web, in J. Hendler, Y. Ding (eds.) *Synthesis Lectures on the Semantic Web: Theory and Technology*, Morgan & Claypool, Palo Alto, CA, USA, October 2012
- [309] Q. Zuo, Y. Wang, Z. Cao, G3M-based multimedia query framework with personalization, *Journal of Huazhong University of Science and Technology (Natural Science Edition)*, vol 38(4), pp. 34-37, 2010
- [310] Q. Zuo, Z.-S. Cao, Y.-Z. Wang, Q. Zhou, An ontology-based strategy to enhance G3M semantics, *Journal of Central South University (Natural Science Edition)*, vol 41(4), 2010
- M. Wallace, M. Angelides, P. Mylonas(Eds.), Advances in Semantic Media Adaptation and Personalization, Springer Verlag Studies in Computational Intelligence, Vol. 93, ISBN 978-3-540-76359-8, February 2008 [1 citations]*
- [311] E. Hyvonen, Publishing and Using Cultural Heritage Linked Data on the Semantic Web, in J. Hendler, Y. Ding (eds.) *Synthesis Lectures on the Semantic Web: Theory and Technology*, Morgan & Claypool, Palo Alto, CA, USA, October 2012
- 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 [12 citations]*
- [312] M. Skowron, H. Pirker, S. Rank, G. Paltoglou, J. Ahn and S. Gobron, No peanuts! Affective Cues for the Virtual Bartender, In *Proc 24th Florida Artificial Intelligence Research Society Conference*, 2011
- [313] M. Skowron and G. Paltoglou, Affect Bartender - Affective cues and their application in a conversational agent, *2011 IEEE Workshop on Affective Computational Intelligence (WACI)*, pp. 1-7, 11-15 April 2011
- [314] J. Prado, C. Simplicio, N.F. Lori and J. Dias, Visuo-Auditory Multimodal Emotional Structure to Improve Human-Robot-Interaction, *International Journal of Social Robotics*, vol 4, pp. 29-51, 2012
- [315] . Prado, A new probabilistic methodology to support an emotive dialog between a human and a robot, PhD Thesis, University of Coimbra, 2011
- [316] G. Valenza, and A. Lanata, and E.P. Scilingo, The Role of Nonlinear Dynamics in Affective Valence and Arousal Recognition, *IEEE Transactions on Affective Computing*, num. 99, 2011
- [317] J. Prado, C. Simplicio and J. Dias, Robot Emotional State through Bayesian Visuo-Auditory Perception, *2nd Doctoral Conference on Computing, Electrical and Industrial Systems*, Costa da Caparica, Lisbon, Portugal, 21-23 February 2011

- [318] V. Bettadapura, Face Expression Recognition and Analysis: The State of the Art, Tech Report, Georgia Tech, April 2012.
- [319] G. Valenza, A. Lanata and E. P. Scilingo, Oscillations of Heart Rate and Respiration Synchronize During Affective Visual Stimulation, IEEE Transactions on Information Technology in Biomedicine, vol 16, pp. 683-690, 2012
- [320] K. Yurtkan and H. Demirel, Entropy-based feature selection for improved 3D facial expression recognition, Signal, Image and Video Processing, vol 8(2), pp. 267-277, 2014
- [321] S.I. Anishchenko, V.A. Osinov and D.G. Shaposhnikov, Assessment of human head pose in human-computer interaction, Pattern Recognition and Image Analysis , vol 22(4). pp. 541-545, 2012
- [322] G. Valenza and E. P. Scilingo, Autonomic Nervous System Dynamics for Mood and Emotional-State Recognition, Series in BioEngineering, Springer, 2014
- [323] K.R. Scherer, T. Banziger and E.B. Roesch, Outlook: integration and future perspectives for affective computing, in K.R. Scherer, T. Bänziger and E.B. Roesch (eds) Blueprint for affective computing: a sourcebook, Oxford, New York, Oxford University Press, 2010

*M. Angelides, P. Mylonas, M. Wallace (eds.), Semantic Media Adaptation and Personalisation, Multimedia Tools and Applications, vol 41(3), 2009 [1 citations]*

- [324] E. Hyvonen, Publishing and Using Cultural Heritage Linked Data on the Semantic Web, in J. Hendler, Y. Ding (eds.) Synthesis Lectures on the Semantic Web: Theory and Technology, Morgan & Claypool, Palo Alto, CA, USA, October 2012

*M. Angelides, P. Mylonas, M. Wallace(Eds.), Advances in Semantic Media Adaptation and Personalization, Volume 2, CRC Press, 2009 [3 citations]*

- [325] A. Paramythis, Adaptive systems: development, evaluation and evolution, PhD Thesis, Johannes Kepler University, 2009
- [326] Eero Hyvönen, Publishing and Using Cultural Heritage Linked Data on the Semantic Web, Morgan & Claypool Publishers, 2012
- [327] B. Steichen, H. Ashman, and V. Wade, A comparative survey of Personalised Information Retrieval and Adaptive Hypermedia techniques. ;In Proceedings of Inf. Process. Manage.. 2012, 698-724.

*M. Wallace, Ontologies and Soft Computing in Flexible Querying, Control and Cybernetics, Vol 2, 2009 [1 citations]*

- [328] F. Bobillo and U. Straccia, Aggregation operators for fuzzy ontologies, Applied Soft Computing, vol 13(9), pp. 3816-3830, 2013

*G. Caridakis, K. Karpouzis, M. Wallace, L. Kessous, N. Amir, Multimodal user's affective state analysis in naturalistic interaction, Journal of Multimodal User Interfaces 3(1-2), pp. 49-66, 2010 [15 citations]*

- [329] M. Tkalcic, U. Burnik and A. Kosir, Using affective parameters in a content-based recommender system for images, User Modeling and User-Adapted Interaction, vol 20, pp. 279-311, 2010
- [330] E. Alepis and M. Virvou, Multimodal Object Oriented User Interfaces in Mobile Affective Interaction, Multimedia Tools and Applications, vol 59(1), pp. 41-63, 2010
- [331] G. McKeown, M. Valstar, R. Cowie, M. Pantic and M. Schroder, The SEMAINE Database: Annotated

- Multimodal Records of Emotionally Colored Conversations between a Person and a Limited Agent, *IEEE Transactions on Affective Computing*, vol 3(1), pp. 5-17, 2012
- [332] S. Scherer, M. Glodek, G. Layher, M. Schels, M. Schmidt, F. Schwenker, H. Neumann and G. Palm, A Generic Framework for the Inference of User States in Human Computer Interaction: How patterns of low level behavioral cues support complex User States in HCI, *Journal on Multimodal User Interfaces*, vol 6, pp. 117-141, 2012
- [333] S. Scherer, M. Glodek, F. Schwenker, N. Campbell and G. Palm, Spotting laughter in natural multiparty conversations: A comparison of automatic online and offline approaches using audiovisual data, *ACM Transactions on Interactive Intelligent Systems*, vol 2(1), 2012
- [334] L. Zhang, D. Tjondronegoro and V. Chandran, Evaluation of Texture and Geometry for Dimensional Facial Expression Recognition, *International Conference on Digital Image Computing Techniques and Applications*, 2011
- [335] D. Rocchesso, *Explorations in Sonic Interaction Design*, Logos, 2011
- [336] R. Cowie, G. McKeown and E. Douglas-Cowie, Tracing emotion: an overview, *International Journal of Synthetic Emotions*, vol 3(1), pp. 1-17, 2012
- [337] A. Panning, I. Siegert, A. Al-Hamadi, A. Wendemuth, D. Rösner, J. Frommer, G. Krell and B. Michaelis, Multimodal Affect Recognition in Spontaneous HCI Environment, *IEEE International Conference on Signal Processing, Communications and Computing*, 2012
- [338] B. De Carolis, I. Mazzotta, N. Novielli and S. Pizzutilo, User Modeling in Social Interaction with a Caring Agent in E. Martin, P.A. Haya and R.M. Carro (eds) *User Modeling and Adaptation for Daily Routines*, pp. 89-119, Springer Human Computer Interaction Series, 2013
- [339] B.D. Carolis, S. Ferilli and N. Novielli, Recognizing the User Social Attitude in Multimodal Interaction in Smart Environments, *Proceedings of Ambient Intelligence*, 2012
- [340] B.De Carolis and N. Novielli, Recognizing signals of social attitude in interacting with Ambient Conversational Systems, *Journal on Multimodal User Interfaces*, vol 8, pp. 143-60, 2014
- [341] L. Zhang, *Towards spontaneous facial expression recognition in real-world video*, PhD thesis, Queensland University of Technology, 2012
- [342] R. Misra and M.J. LaVaglio, The Role of Affective Interface in E-learning, *The International Journal of Learning*, vol 18(12), pp. 215-224, 2012
- [343] D. Prylipko, D. Rosner, I. Siegert, S. Günther, R. Friesen, M. Haase, B. Vlasenko and A. Wendemuth, Analysis of significant dialog events in realistic human-computer interaction, *Journal on Multimodal User Interfaces*, vol 8, pp. 75-86, 2014
- P. Alexopoulos, M. Wallace, K. Kafentzis, and D. Askounis, Utilizing Imprecise Knowledge in Ontology-based CBR Systems by Means of Fuzzy Algebra, International Journal of Fuzzy Systems 12(1), pp 1-14, 2010 [2 citations]*
- [344] I. Zisis, *Development of a vague knowledge management system*, Thesis, National Technical University of Athens, 2011
- [345] Devadoss, Nilavu, and Sivakumar Ramakrishnan, Development of Fuzzy Rough Features in Ontology Knowledge Representation, *The Journal of Technology* Volume 6 Oct. 2014, Pages 265-

*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 [3 citations]*

[346] V. Subramaniaswamy, V. Vijayakumar, and V. Indragandhi, A Review of Ontology-Based Tag Recommendation Approaches, *International Journal of Intelligent Systems*, vol 28, pp. 1054–1071, 2013

[347] T. Wang, H. Wang, G. Yin, C.X. Ling, X. Li, X. and P. Zou, Tag recommendation for open source software, *Frontiers of computer science*, pp. 69-82, 2014

[348] A. Yushtina, Ontology-based data extraction in the scholarship-related content, graduate thesis, Gjovik University College 2013

*P. Alexopoulos, M. Wallace, K. Kafentzis, D. Askounis, IKARUS-Onto: A Methodology to Develop Fuzzy Ontologies from Crisp Ones, Knowledge and Information Systems, vol 32(3), pp. 667-695, 2012 [3 citations]*

[349] Giorgos Flouris, George Konstantinidis, Grigoris Antoniou, Vassilis Christophides, Formal Foundations for RDF/S KB Evolution, *Knowledge and Information Systems*, vol 35, pp. 153-191, 2013

[350] M. Afsharchi, A. Didandeh, N. Mirbakhsh and B. Far, Common understanding in a multi-agent system using ontology-guided learning, *Knowledge and Information Systems*, vol 36(1), pp. 83-120, 2013

[351] I. Zisis, Development of a vague knowledge management system, Thesis, National Technical University of Athens, 2011