

DR. KOMPATSIARIS IOANNIS

ELECTRICAL AND COMPUTER ENGINEER

DATE of BIRTH: 15 JULY 1973

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◆ **EDUCATION**

- 1996-2001 Ph.D. Department of Electrical and Computer Engineering, Aristotle University of Thessaloniki. Supervisor: Prof. M. G. Strintzis. Subject: Coding of stereoscopic image sequences using 3D models.
- 1991-1996 Department of Electrical and Computer Engineering, Aristotle University of Thessaloniki. Telecommunications Division. Graduation grade: 8/10. Graduation rank: 3rd. Diploma thesis subject: Compression of stereoscopic image sequences using 3D models.

◆ **RESEARCH - WORKING EXPERIENCE**

Researcher Grade C' (Senior Lecturer), Centre for Research and Technology – Hellas, Informatics and Telematics Institute (CERTH/ITI) since 1/1/2003. Head of Multimedia Knowledge Group: <http://mkg.iti.gr>. Scientific Responsible and responsible for the proposals preparation on behalf of ITI for the following projects:

- 2007 - VIDI-VIDEO: Interactive semantic video search with a large thesaurus of machine-learned audio-visual concepts, IST-STEP, 2007-2009.
- 2006 - CHORUS: Coordinated approach to the European effort on audio-visual Search engines, IST-CA, 2006-2009.
- 2006 - MESH: Multimedia Semantic Syndication for Enhanced News Services, IST-IP, 2006-2008.
- 2006 - X-Media: Knowledge Sharing and Reuse Across Media, IST-IP, 2006-2009.
- 2006 - K-Space: Knowledge Space of Semantic Inference for Automatic Annotation and Retrieval of Multimedia Content, IST-NoE, 2006-2009.
- 2006 - BOEMIE: Bootstrapping Ontology Evolution with Multimedia Information Extraction, IST-STREP, 2006-2008.
- 2006 - ELU: Enhanced Learning Unlimited, IST-STREP, 2006-2008.
- 2004 - “aceMedia: Integrating knowledge, semantics and content for user centred intelligent media services”, funded by the DG XIII, IP 2004-2008.
- 2004 - “KnowledgeWeb: Realizing the Semantic Web”, funded by the DG XIII, NoE 2004-2008.
- 2003 - 2005 “SCHEMA: Network of Excellence in Content-Based Semantic Scene

- Analysis and Information Retrieval”, IST-2001-32795, Principal Contractor: CERTH/ITI. Project coordinator.
- 2003 - 2005 "MULTI-MINE: Research and Technology Training Network in Multimedia Knowledge Discovery and Management", GSRT-HUMAN RESOURCES. Principal Contractor: CERTH/ITI. Project coordinator.
- 2003 - "REACH: New Forms of Distributed Organization and Access to Cultural Heritage", General Secretariat for Research and Technology, Research and Technological Development Consortia in Sectors of National Priority - CULTURE.
- 2004 - "CIRCE: Content-Based and Semantic Multimedia Indexing and Retrieval in Collaborative Environments", General Secretariat for Research and Technology, Hungary - Greece, Joint Research and Technology Programmes, 2004 - 2006.
- 2003 "Providing Services in Intelligent Content-Based Management and Search of Visual Data", GSRT-PRAXE. Set-up of a spin-off company. Scientific Responsible.

Senior Researcher, Centre for Research and Technology Hellas/Informatics and Telematics Institute (CERTH/ITI).

- 1999 – 2001 "MPEG-4 Toolbox", (EPET II - PENED, 1999 - 2001). Project coordinator. The research team involved 10 researchers from 3 research institutes (ITI, National Technical University of Athens, University of Crete). Design and development of algorithms for 3D models hierarchical and adaptive coding. The result of the project is the first 3D MPEG-4 authoring tool.
- 1999 - 2001 ISTORAMA: "Content-based Image Retrieval over the Internet", (EPET II-PAVE, 1999 - 2001, subcontractor to INTRASOFT S.A.). Coordinator for CERTH/ITI. Design and development of content-based image indexing and retrieval algorithms.

Postgraduate Research Fellow, Information Processing Laboratory. Department of Electrical and Computer Engineering, Aristotle University of Thessaloniki.

- 1998 - 2003 "Coding of video signals in multimedia services", (COST 211 quat 1998-2003). Aristotle University of Thessaloniki representative. Regular meetings and presentations of various research areas to the partners coming from 10 different European countries.
- 1998 – 2000 "Experimental ADSL Network for Fast Internet and Multimedia Services", (funded by OTE, the Greek PTT). The project team designed the first experimental ADSL network in Greece. ITI was responsible for the design of all multimedia applications and services and for the design and development of a video on demand application.
- 1998 – 2000 "VIDAS: VIDEo ASsisted with audio coding and representation", (ACTS II, 1996-2000). Image and Face segmentation algorithms development.
- 1996-1999 "Object-based Coding", (GSRT - YPER). Funded also by INTRACOM S.A., the biggest Telecommunication company in Greece. Funding of the research carried out during the Ph.D. in cooperation with INTRACOM.

1996-1999	"PANORAMA: Package for New Autostereoscopic Multiview Systems and Applications", (EC ACTS 097). 3D rigid and non-rigid motion estimation algorithms for 3D model-based coding of multiview (3-view) image sequences. Segmentation of 3D models.
7 – 8 /1995	Tampere University of Technology (Finland): "Time delay neural networks in spoken number recognition". Participation in students exchange program.
7 – 9 /1994	Public Power Organization. Technical training.
7 – 9 /1993	EKO Petroleum Industry. Technical training.

◆ TEACHING EXPERIENCE

Visiting Professor (Lecturer), 2004-2005, Aristotle University of Thessaloniki, Electrical and Computer Engineering Department, Structured Computer Organization course.

2003 - 2004	MULTI-MINE: Research and Technology Training Network in Multimedia Knowledge Discovery and Management: <ul style="list-style-type: none">• Image and Video Analysis and Representation• Content and Knowledge-based Information Retrieval
1997 - 2001	Teaching assistance in the 4th year course, "Time series analysis", Department of Electrical and Computer Engineering, Aristotle University of Thessaloniki.

◆ RESEARCH & TECHNICAL ACTIVITIES

Member of the editorial board:

- Journal of Multimedia (JMM), Academy Publisher

Guest editor:

- EURASIP Journal on Image and Video Processing, Social Image and Video Content Analysis Special Issue
- Signal Processing: Image Communication, Special issue on "Semantic Analysis for Interactive Multimedia Services"
- IEE Proceedings on Vision, Image and Signal Processing, Special Issue on the 3rd International Conference on Image and Video Retrieval (CIVR 04)

Reviewer:

- IEEE Transactions on Image Processing
- IEEE Transactions on Medical Imaging
- IEEE Transactions on Circuits and Systems on Video Technology (CSVT).
- IEEE Transactions on Circuits and Systems I (TCAS-I).
- Computer Vision and Image Understanding (CVUI)
- IEE Proceedings Vision, Image & Signal Processing.
- EURASIP Journal on Applied Signal Processing (JASP)
- Journal of Electronic Imaging (JEI).

- Pattern Analysis and Applications Journal.
- Data and Knowledge Engineering Journal.
- Educational Technology and Society International Journal.

Co-Chair of the 8th International Workshop on Image Analysis for Multimedia Interactive Services (WIAMIS 2007), June 6-8, 2007, Santorini, Greece.

Co-Chair of the First international conference on Semantics And digital Media Technology (SAMT 2006), December 6-8, 2006, Athens, Greece.

Member of the Organising Committee:

- ICME 2008, IEEE ICME 2008 International Conference on Multimedia & Expo, June 23-26, 2008 – Hannover, Germany (Track Chair for the Multimedia Content Analysis Track).
- SAMT 2007, 2nd International Conference on Semantic and Digital Media Technology, 5-7 December 2007, Genova, Italy (Technical Programme Chair).
- ICSC 2007, First IEEE International Conference on Semantic Computing, September 17-19, 2007, Hyatt Regency Irvine, Irvine, California (Poster Co-Chair)
- WIAMIS 2006, 7th International Workshop on Image Analysis for Multimedia Interactive Services, 19 - 21 April 2006, Hyatt Regency, Incheon International Airport, Korea. (Special Sessions Chair)
- VIE 2006, 3rd International Conference on Visual Information Engineering, 26-28 September 2006, Bangalore, India (Special Sessions Chair)
- EWIMT 2005, 2nd European Workshop on the Integration of Knowledge, Semantic and Digital Media Technologies, 30 November to 1 December 2005, London, U.K. (Special Sessions Chair)
- «Multimedia and the Semantic Web», one day workshop held as part of the 2nd European Semantic Web Conference, Heraklion, Crete 29 May to 1 June 2005.
- Co-organisation (as coordinator of SCHEMA NoE) of the 2005 Workshop on Image Analysis for Multimedia Interactive Services (WIAMIS'05), April 2005, Switzerland.
- European Workshop on the Integration of Knowledge, Semantic and Digital Media Technologies, November 25-26, 2004, Royal Statistical Society, London (Program Co-Chair)
- International Conference on Image and Video Retrieval, Ireland, Dublin, July 21-23, 2004 - CIVR2004 (Practitioner Co-Chair)
- Workshop on Meaning Coordination and Negotiation, held in conjunction with the 3rd International Semantic Web Conference (ISWC-2004).

Organisation and Chairman of the following Special Sessions:

- Special session in “Advances in Semantic Multimedia Analysis for Personalised Content Access”, ISCAS 2006.
- Special session in “EU Projects”, CIVR 2004.
- Special session in Semantic-based Multimedia Analysis and Access (6th FP IST projects), WIAMIS 2004.
- Special session in IST-Projects, WIAMIS 2003
- Special session in "Content-Based Semantic Scene Analysis", CBMI 2003

Member of the Program Committee:

- 2008 IEEE International Conference on Automatic Face and Gesture Recognition (FG 2008), September 17-19, 2008 – Amsterdam, The Netherlands
- Second Workshop on the Many Faces of Multimedia Semantics, co-located with ACM

- Multimedia 2008, in Vancouver, Canada, October-November 2008.
- AXMEDIS 2008, 4th International Conference on Automated solutions for Cross Media Content and Multi-channel Distribution, 17-19 Nov. 2008, Florence, Italy.
- I-MEDIA 2008, International Conference on New Media Technology, 3-5 September 2008, Messe Center Graz, Austria
- RuleML-2008, The International RuleML Symposium on Rule Interchange and Applications, Orlando, Florida: October 30-31, 2008.
- ISWC 2008, 7th International Semantic Web Conference, October 26–30, 2008, Kongresszentrum (Congress Center), Karlsruhe, Germany.
- SIGMAP 2008 the International Conference on Signal Processing and Multimedia Applications, 26-29 July, Porto, Portugal.
- Fifth International Conference on Visual Information Engineering, VIE'08, July 29- August 1, 2008, Xi'an, China.
- 5th Hellenic Conference on Artificial Intelligence (SETN 08).
- Fifth European Semantic Web Conference (ESWC 2008), Tenerife, Spain, June 1-5, 2008.
- CBMI-2008, Sixth International Workshop on Content-Based Multimedia Indexing, 18-20th June, 2008, London, UK.
- "Mastering the Gap: From Information Extraction to Semantic Representation" (MTG2007), part of the International Semantic Web Conference 2007 (ISWC2007) in Busan, Korea (November 12, 2007).
- International Conference on Signal Processing and Multimedia Applications, SIGMAP 2007, 28-31 July, Barcelona, Spain.
- 1st International Conference on Collaborative Computing over Social Networking, Seoul, Korea, September 12 to 14, 2007.
- The 6th International Semantic Web Conference and the 2nd Asian Semantic Web Conference, 2007, Busan, Korea, November 2007.
- 9th International Workshop on Image Analysis for Multimedia Interactive Services (WIAMIS'2008), Klagenfurt University, Austria, 7-9 May 2008.
- Making Semantics Work For Business Workshop, part of 1st European Semantic Technology Conference 2007, Vienna, Austria, May 31 - June 1, 2007.
- International Workshop on the Many Faces of Multimedia Semantics, in conjunction with ACM Multimedia 2007, September 29, 2007, University of Augsburg, Germany
- 1st International Conference on New Media Technology, Graz – Austria, I-MEDIA '07
- 5th International Semantic Web Conference-Research Track (ISWC2006)
- From Information Extraction to Semantic Representation Workshop, 3rd European Semantic Web Conference, Budva, Montenegro 2006
- Semantic Web Personalization Workshop, 3rd European Semantic Web Conference, Budva, Montenegro 2006
- International Workshop on "Crossing media for improved information access", 23 May 2006, Magazzini del Cotone Conference Centre, Genoa, Italy
- International Conference on Computer Graphics, Imaging, Vision and Visualisation 2005, 2006 and 2007, CGIV
- SemAnnot 2005, Knowledge Markup and Semantic Annotation 5th International Workshop, located at the 4rd International Semantic Web Conference ISWC 2005, 7th November 2005, Galway, Ireland.
- Workshop on Semantic Web Case Studies and Best Practices for eBusiness 2005, SWCASE05, held in International Semantic Web Conference 2005, Galway, Ireland.
- NLP for Multimedia Applications (ESSLLI 2004)

- Workshop on Knowledge Markup and Semantic Annotation (Semannot2004), held in conjunction with the 3rd International Semantic Web Conference (ISWC-2004)

Member of the Technical Program Committee: ICME 2005, ICIP 2004, WIAMIS 2003, CBMI 2003, ICIP 2003.

Member of the IEE Visual Information Engineering Technical Advisory Panel

Member of the Working Group on Informatics and Communications for the Central Macedonia Region (Greece) Foresight project (2003)

Reviewer, International Scientific Conferences: ICASSP 2008, ICIP 1997-2004, EUSIPCO 2004, ECMAST 1997-1999, IWSNHC3DI 1997-1999, ICAV3D 2001

Representative of the Greek National Standardization Body (ELOT) to the ISO JTC 1/SC 29/WG 11 MPEG group.

Member of the Institute of Electrical and Electronics Engineers (IEEE) since 1994. Technical societies: Signal processing, Computer.

Member of the Technical Chamber of Greece.

◆ FOREIGN LANGUAGES

English	Perfect knowledge. Proficiency in English (University of Cambridge)
German	Fair knowledge. Mittelstufe.
French	Fair knowledge.

◆ AWARDS

2000	International Conference on Consumer Electronics (ICCE): "For invaluable services rendered in furthering the objectives of the ICCE".
1995 & 1996	Awarded by the Technical Chamber of Greece for exceptional performance during the academic years 1994-95 and 1995-96 (graduation year).

◆ SCIENTIFIC INTERESTS

Image and Video processing and analysis, high-level semantic annotation of multimedia content, informational retrieval and knowledge discovery, semantic-web and multimedia, multimedia ontologies and reasoning, adaptation and personalization for multimedia applications, intelligent human computer interaction and interfaces, MPEG-4, MPEG-7, 3D model-based monoscopic and multiview image sequence analysis and coding, medical image processing.

◆ PUBLICATIONS (<http://mkg.iti.gr/publications.htm>)

244 citations (without self-citations) (January 2007)

BOOK CHAPTERS

- [1] S. Dasiopoulou, C. Doulaverakis, V. Mezaris, I. Kompatsiaris, M.G. Strintzis, "An Ontology-Based Framework for Semantic Image Analysis and Retrieval", in *Semantic-Based Visual Information Retrieval*, Yu-Jin ZHANG (Editor), Idea Group Inc., 2007, to appear.
- [2] S. Dasiopoulou, E. Spyrou, Y. Kompatsiaris, Y. Avrithis, and M.G. Strintzis, "Semantic Processing of Color Images", in *Color Image Processing: Methods and Applications*, Rastislav Lukac, Konstantinos N. Plataniotis (Editors), CRC Press, 2006 (**1 citation**)
- [3] S. Argyropoulos, N. V. Boulgouris, N. Thomos, I. Kompatsiaris, M. G. Strintzis, "Coding of 2D and 3D Color Image Sequences" in *Color Image Processing: Methods and Applications*, Rastislav Lukac, Konstantinos N. Plataniotis (Editors), CRC Press, 2006, to appear.
- [4] V. Mezaris, I. Kompatsiaris and M. G. Strintzis, "Segmentation of Images and Video" in *Encyclopedia of Multimedia*, B. Furht (Editor), pp. 780-788, ISBN 0-387-24395-X, Springer, 2006.
- [5] I. Kompatsiaris, V. Mezaris, and M. G. Strintzis, "Multimedia content indexing and retrieval using an object ontology", *Multimedia Content and Semantic Web - Methods, Standards and Tools*, G. Stamou (Editor), Wiley, May 2005. (**5 citation**)
- [6] P. Dafas, I. Kompatsiaris and M. G. Strintzis: "Optimal Hierarchical Adaptive Mesh Construction using FCO sampling", *Advances in Geometric Modeling*, M. Sarfraz, Ed. Wiley Europe, November 2003. (**1 citation**)

JOURNALS

- [1] Stefanos Vrochidis, Charalampos Doulaverakis, Anastasios Gounaris, Evangelia Nidelkou, Lambros Makris and Ioannis Kompatsiaris, "A Hybrid Ontology and Visual-based Retrieval Model for Cultural Heritage Multimedia Collections", *International Journal of Metadata, Semantics and Ontologies*, 2008, accepted for publication.
- [2] L. Wanner, R. Baeza-Yates, S. Brugmann, J. Codina, B. Diallo, E. Escorsa, M. Giereth, Y. Kompatsiaris, S. Papadopoulos, E. Pianta, G. Piella, I. Puhlmann, G. Rao, M. Rotard, P. Schoester, L. Serafini and V. Zervaki, "Towards content-oriented patent document processing", *World Patent Information*, In Press, Corrected Proof, Available online 24 May 2007. (**1 citation**)
- [3] Maria Papadogiorgaki, Vasileios Mezaris, Yiannis S. Chatzizisis, George D. Giannoglou and Ioannis Kompatsiaris, "Texture Analysis and Radial Basis Function Approximation for IVUS image Segmentation", *The Open Biomedical Engineering Journal*, accepted for publication.
- [4] Alexia Briassouli, Vasileios Mezaris, Ioannis Kompatsiaris, "Color aided motion-segmentation and object tracking for video sequences semantic analysis", *International Journal of Imaging Systems and Technology (IJIST)*, Special Issue on Applied Color Image Processing, accepted for publication.
- [5] G. Th. Papadopoulos, V. Mezaris, I. Kompatsiaris and M. G. Strintzis: "Combining Global and Local Information for Knowledge-Assisted Image Analysis and Classification", *EURASIP Journal on Advances in Signal Processing*, Special Issue on Knowledge-Assisted Media Analysis for Interactive Multimedia Applications, vol. 2007 (2007), Article ID 45842 (**1 citation**)
- [6] G. D. Giannoglou, Y. S. Chatzizisis, V. Koutkias, I. Kompatsiaris, M. Papadogiorgaki, V. Mezaris, E. Parissi, P. Diamantopoulos, M. G. Strintzis, N. Maglaveras, G. E. Parcharidis, G. E. Louridas, "A Novel Active Contour Model for Fully Automated Segmentation of Intravascular Ultrasound

Images: In-Vivo Validation in Human Coronary Arteries", Computers in Biology and Medicine, accepted for publication.

[7] G. Th. Papadopoulos, Ph. Mylonas, V. Mezaris, Y. Avrithis and I. Kompatsiaris, "Knowledge-Assisted Image Analysis Based on Context and Spatial Optimization", International Journal on Semantic Web and Information Systems, vol. 2, no. 3, pp. 17-36, July-September 2006.

[8] K. Petridis, S. Bloehdorn, C. Saathoff, N. Simou, S. Dasiopoulou, V. Tzouvaras, S. Handschuh, Y. Avrithis, I. Kompatsiaris, S. Staab, "Knowledge Representation and Semantic Annotation of Multimedia Content," IEE Proceedings on Vision Image and Signal Processing, Special issue on Knowledge-based Digital Media Processing, vol. 153, no. 3, pp. 255-262, June 2006. **(5 citations)**

[9] 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, Special Issue on Analysis and Understanding for Video Adaptation, vol. 15, no. 10, pp. 1210-1224, October 2005. **(14 citations)**

[10] V. Mezaris, I. Kompatsiaris and M. G. Strintzis, "Object-based MPEG-2 video indexing and retrieval in a collaborative environment", Multimedia Tools and Applications Journal, Springer, vol. 30, no. 3, pp. 255-272, September 2006.

[11] V. Mezaris, I. Kompatsiaris, and M. G. Strintzis, "Region-based Image Retrieval using an Object Ontology and Relevance Feedback", EURASIP Journal on Applied Signal Processing, Special Issue on Object-Based and Semantic Image and Video Analysis, vol. 2004, no. 6, June 2004. **(17 citations)**

[12] V. Mezaris, I. Kompatsiaris and M. G. Strintzis, "Still Image Segmentation Tools for Object-based Multimedia Applications", International Journal of Pattern Recognition and Artificial Intelligence, vol. 18, no. 4, June 2004. **(8 citations)**

[13] V. Mezaris, I. Kompatsiaris, and M. G. Strintzis, "Video Object Segmentation using Bayes-based Temporal Tracking and Trajectory-based Region Merging", IEEE Transactions on Circuits and Systems for Video Technology, vol. 14, no. 6, June 2004. **(24 citations)**

[14] V. Mezaris, I. Kompatsiaris, N. V. Boulgouris, and M. G. Strintzis, "Real-time compressed-domain spatiotemporal segmentation and ontologies for video indexing and retrieval", IEEE Transactions on Circuits and Systems for Video Technology, Special Issue on Audio and Video Analysis for Multimedia Interactive Services, vol. 14, no. 5, pp. 606-621, May 2004. **(35 citations)**

[15] P. Daras, I. Kompatsiaris, T. Raptis and M. G. Strintzis, "An MPEG-4 Tool for Composing 3D Scenes", IEEE Multimedia Magazine, April/June 2004 (Vol. 11, No. 2). **(3 citations)**

[16] P. Daras, I. Kompatsiaris, I. Grinias, G. Akrivas, G. Tziritas, S. Koliass, and M. G. Strintzis, "MPEG-4 Authoring Tool using Moving Object Segmentation and Tracking in Video Shots", EURASIP Journal on Applied Signal Processing, 2003:9 (2003) 861-877. **(1 citations)**

[17] N. V. Boulgouris, I. Kompatsiaris, V. Mezaris, D. Simitopoulos, M. G. Strintzis, "Segmentation and Content-based Watermarking for Color Image and Image Region Indexing and Retrieval", EURASIP Journal on Applied Signal Processing, Vol. 2002, No. 4, pp. 432-443, April 2002. **(5 citations)**

[18] I. Kompatsiaris, D. Tzouvaras and M.G. Strintzis, "Hierarchical Representation and Coding of Surfaces using 3D Polygon Meshes", IEEE Trans. on Image Processing, vol 10, no. 8, pp. 1133-1151, August 2001.

- [19] I. Kompatsiaris and M.G. Strintzis, "Spatiotemporal Segmentation and Tracking of Objects for Visualization of Videoconference Image Sequences", IEEE Trans. on Circuits and System for Video Technology, vol. 10, no. 8, pp. 1388-1402, December 2000. **(25 citations)**
- [20] I. Kompatsiaris, D. Tzovaras, V. Koutkias and M. G. Strintzis, "Deformable Boundary Detection of Stents in Angiographic Images", IEEE Trans. on Medical Imaging, vol. 19, no. 6, pp. 652-662, June 2000. **(9 citations)**
- [21] D. Tzovaras, I. Kompatsiaris and M. G. Strintzis: "3D Object Articulation and Motion Estimation in Model-Based Stereoscopic Videoconference Image Sequence Analysis and Coding", Signal Processing: Image Communication Journal, Vol. 14, No. 10, pp. 817-840, August 1999. **(2 citations)**
- [22] I. Kompatsiaris, D. Tzovaras and M.G. Strintzis, "Flexible 3D Motion Estimation and Tracking for Multiview Image Sequence Coding", Signal Processing: Image Communication Journal, Special Issue on 3D Video Technology, vol. 14, No. 1-2, pp. 95-110, November 1998. **(6 citations)**
- [23] I. Kompatsiaris, D. Tzovaras and M.G. Strintzis, "3-D Model-Based Segmentation of Videoconference Image Sequences", IEEE Trans. on Circuits and System for Video Technology, Vol. 8, No. 5, pp. 547-561, September 1998. **(8 citations)**

CONFERENCES

Semantic analysis of Multimedia - Content-based Indexing and Retrieval - Segmentation

- [1] Maria Papadogiorgaki, Vasileios Papastathis, Evangelia Nidelkou, Yiannis Kompatsiaris, Simon Waddington, Ben Bratu, Myriam Ribiere, "Distributed User Modeling for Personalized News Delivery in Mobile Devices", 2nd International Workshop on Semantic Media Adaptation and Personalization (SMAP07), December 17-18, 2007, London, United Kingdom, accepted for publication.
- [2] G. Th. Papadopoulos, V. Mezaris, I. Kompatsiaris and M. G. Strintzis, "Ontology-Driven Semantic Video Analysis Using Visual Information Objects", Proc. Second International Conference on Semantics and Digital Media Technologies (SAMT07), Genova, Italy, December 2007 **(1 citation)**
- [3] S. Dasiopoulou, V. Tzouvaras, I. Kompatsiaris and M.G. Strintzis, "Capturing MPEG-7 Semantics", 2nd International Conference on Metadata and Semantics Research, 11-12 Oct., Corfu, Greece, 2007
- [4] S. Vrochidis, C. Doulaverakis, A. Gounaris, E. Nidelkou, L. Makris and I. Kompatsiaris, "A Hybrid Ontology and Visual-based Retrieval Model for Cultural Heritage Multimedia Collections", 2nd International Conference on Metadata and Semantics Research, 11-12 Oct., Corfu, Greece, 2007
- [5] S. Dasiopoulou, J. Heinecke, C. Saathooff and M.G. Strintzis, "Multimedia Reasoning with Natural Language Support", 1st IEEE International Conference on Semantic Computing, Sept 17-19, Irvine, California, 2007
- [6] A. Briassouli, S. Dasiopoulou, I. Kompatsiaris, "Ontology-Based Trajectory Analysis for Semantic Event Detection", 1st IEEE International Conference on Semantic Computing, Sept 17-19, Irvine, California, 2007
- [7] S. Vrochidis, C. Doulaverakis, L. Makris, A. Gounaris, E. Nidelkou, I. Kompatsiaris and M.G.

Strintzis: "Hybrid Ontology and Visual-based Retrieval for Cultural Heritage Multimedia Libraries", 14th International Conference of Image Analysis and Processing - Workshops, 10-13 September 2007, Modena, Italy

- [8] G. Th. Papadopoulos, V. Mezaris, I. Kompatsiaris and M. G. Strintzis: "Combining Content and Context Information for Semantic Image Analysis and Classification", 15th European Signal Processing Conference (EUSIPCO 2007), special session on The Semantic Gap in Visual Information Retrieval, accepted for publication.
- [9] Maria Papadogiorgaki, Vasileios Mezaris, Yiannis S. Chatzizisis, George D. Giannoglou and Ioannis Kompatsiaris, "Automated IVUS contour detection using intensity features and Radial Basis Function approximation", 20th IEEE International Symposium on Computer-Based Medical Systems (CBMS 2007), pp. 183-188, June 20-22, 2007, Maribor, Slovenia.
- [10] V. Mezaris, N. Boulgouris, I. Kompatsiaris, "Knowledge-Assisted Video Analysis for Content-Adaptive Coding and Transmission", Proc. 1st International Workshop on Semantic Media Adaptation and Personalization (SMAP06), December 2006, Athens, Greece, to appear.
- [11] S. Dasiopoulou, G. Th. Papadopoulos, Ph. Milonas, Y. Avrithis, Y. Kompatsiaris, "Using Context and a Genetic Algorithm for Knowledge Assisted Image Analysis", Poster and Demo Proceedings of the 1st International Conference on Semantic and Digital Media Technologies (SAMT, formerly EWIMT), Athens, Greece, 6-8 December, 2006.
- [12] G. Th. Papadopoulos, V. Mezaris, S. Dasiopoulou and I. Kompatsiaris: "Semantic image analysis using a learning approach and spatial context", 1st international conference on Semantics And digital Media Technologies (SAMT, formerly EWIMT), special session on Context-based Multimedia Analysis and Representation, Athens, Greece, 6-8 December, 2006. **(3 citations)**
- [13] M. Papadogiorgaki, V. Mezaris, Y.S. Chatzizisis, I. Kompatsiaris, G.D. Giannoglou and M.G. Strintzis, "A Fully Automated Texture-based Approach for the Segmentation of Sequential IVUS Images", Proc. 13th International Conference on Systems, Signals and Image Processing (IWSSIP 2006), September 2006, Budapest, Hungary.
- [14] K. Petridis, D. Anastasopoulos, C. Saathoff, N. Timmermann, I. Kompatsiaris and S. Staab: "M-OntoMat-Annotizer: Image Annotation. Linking Ontologies and Multimedia Low-Level Features", Engineered Applications of Semantic Web Session (SWEA) at the 10th International Conference on Knowledge-Based & Intelligent Information & Engineering Systems (KES 2006), Bournemouth, U.K., October 2006. **(1 citation)**
- [15] G. Th. Papadopoulos, P. Panagi, S. Dasiopoulou, V. Mezaris and I. Kompatsiaris: "A Learning Approach to Semantic Image Analysis", 2nd International Mobile Multimedia Communications Conference (Mobimedia, formerly MSAN), K-Space special session on Automatic Annotation and Retrieval of Multimedia Content, Alghero, Sardinia, Italy, September 2006.
- [16] P. Panagi, S. Dasiopoulou, G. Th. Papadopoulos, I. Kompatsiaris, M.G. Strintzis: "A Genetic Algorithm Approach to Ontology-Driven Semantic Image Analysis", 3rd IEEE International Conference of Visual Information Engineering (VIE), K-Space Research on Semantic Multimedia Analysis for Annotation and Retrieval special session, Bangalore, India, 2006.
- [17] C. Doulaverakis, E. Nidelkou, A. Gounaris, Y. Kompatsiaris: "An Ontology and Content-Based Search Engine For Multimedia Retrieval", 10th East-European Conference on Advances in Databases and Information Systems, ADBIS 2006, Thessaloniki, Hellas, 3-7 September, 2006.
- [18] C. Saathoff, K. Petridis, D. Anastasopoulos, N. Timmermann, I. Kompatsiaris and S. Staab: "M-OntoMat-Annotizer: Linking Ontologies with Multimedia Low-Level Features for

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