

CURRICULUM VITAE

PERSONAL INFO:

Surname : Nikolopoulos

Name : Spiros

Father's Name : Nikolaos

Address : Skydras 8, Polichni-Thessaloniki

Home Telephone / Cell Telephone : 2310662353 / 6937100534

e-mail : nikolopo@iti.gr

Birth Date : 25-6-1978

Marital Status : Single

Profession : Graduate – Computer & Informatics Engineer

EDUCATION :

Basic Education :

`96 Graduation from the 1^o Lyceum of Polichni-Thessaloniki, grade 17 & ⁴/₁₀.

University Education :

`97 – `02 BSc degree at the Department of Computer Engineering and Informatics, University of Patras, grade 7,73.

`02 – `04 MSc degree on Computer Science & Technology, University of Patras, grade *EXCELLENT*.

`09 – `12 PhD degree on Semantic multimedia analysis using knowledge and context, Queen Mary University of London.

LANGUAGES :

`00 Certificate of Proficiency, University of Cambridge

PROFESSIONAL EXPERIENCE :

Nov. `13 – Today **Pericles** (Promoting and Enhancing Reuse of Information throughout the Content Lifecycle taking account of Evolving Semantics). Participation as a research associate

Mar. `13 – Today **i-Treasures** (Intangible Treasures - Capturing the Intangible Cultural Heritage and Learning the Rare Know-How of Living Human Treasures FP7-ICT-2011-9-600676-i-Treasures).

	Responsible for the project managements and participation as research associate
Feb. `12 – Today	Live+Gov (Reality Sensing, Mining and Augmentation for Mobile Citizen–eGovernment Dialogue – Grant agreement no: 288815). Responsible for the project managements and participation as research associate
Jan. `12 – Dec. `12	CHORUS+ (Coordinated approach to the European effort on audio-visual search – Grant agreement no: 249008). Participation as research associate
Jan. `11 – Dec. `11	CHORUS+ (Coordinated approach to the European effort on audio-visual search – Grant agreement no: 249008) & CLOCAL (Event-based Retrieval of Networked Media - Grant agreement no: 248984). Participation as research associate
Jan. `10 – Dec. `10	MEDUSA (Multi Sensor Data Fusion Grid for Urban Situational Awareness – EDA Contract A-0826-RT-GC) Participation as research associate
Jan. `09 – Dec. `09	X-Media (Knowledge Sharing and Re-use Across Media – IST - FP6-26978) Responsible for the project management and participation as research associate.
Jan `08 – Dec. `08	BOEMIE (Bootstrapping Ontology Evolution with Multimedia Information Extraction). Participation as research associate.
July `07 – Dec `07	aceMedia (Integrating knowledge, semantics and content for user-centered intelligent media services). Participation as research associate.
Sept `06 – June `07	X-Media (Knowledge Sharing and Re-use Across Media – IST - FP6-26978) Responsible for the project management and participation as research associate.
Jan.`05 – Sept.`05	ECRYPT (European Network of Excellence in Cryptology – IST – 2002-507932) Responsible for the project management and participation as researcher engineer.
May`04 – Dec.`04	“Practical guide-handbook for the protection & management of Intellectual Property Rights of digital cultural content and a digital rights management system based on international metadata standards” , Action 1.3 of the Action Plan “Information Society”. Project manager and responsible for the elaboration and composition of a study regarding the protection of intellectual property rights of digital content. (Funding Protocol Number: 152.147/KτΠ 5433-B1, Corporate Funding Agreement: 2004ΣΕ34530015).

- Oct.`04 – Dec.`04 **Virtual monument navigation of Aitolokarnania & Achaia** funded under the Western Greece Region programme 2000-2006, Action 2 “Cultural and Tourist growth – exploitation of 2004 Olympic Games”, Action Line 2.1 “Culture”. Analysis of the technical and functional specifications for a prototype system supporting the digitization, documentation and projection on the Web of cultural assets.
- Feb.`04 – Dec.`04 **MinervaPlus** (Ministerial Network for Valorizing Activities in Digitization Plus – **IST – 2004-507083**) funded under the European Commission IST FP6 programme. National representative on issues regarding the protection of intellectual property rights of digital cultural content.
- July.`04 – Aug.`04 **MUVII** (Multi user virtual interactive interface – **IST – 2000-28463**), funded under the European Commission IST FP5 programme. Participation as researcher engineer.
- Jan.`03 – June `04 **POP** (Performance Portability OpenMP – **IST – 2001-33071**), funded under the European Commission IST FP5 programme. Participation as researcher engineer.
- Nov.`02 – Aug.`03 **POLINET** (Agreement for the technical support of the web portal *ULYSSES* and the incorporation of advanced technologies in culture), funded by the Hellenic Ministry of Culture.
- Dec.`01 – Sept.`02 **National Digitization Project** (National Digitization Project of the Hellenic Cultural Repository) funded by the Hellenic Ministry of Culture. Main responsibilities were to review and evaluate the techniques and technologies of digitizing, administering, protecting and exploiting cultural artefacts, monuments and places.
- Nov.`00 – June.`02 **PRAXITEL** (Integrated Environment for the Management, Protection and Exploitation of Digital Objects of the Hellenic Cultural Heritage), funded by the Hellenic Ministry of Culture. The main objective of the project was the management and protection of the metadata and intellectual property rights of digital images by employing digital watermarking techniques. Main responsibilities was the setup and pilot testing of the informational system on a cultural organization administered by the Hellenic Ministry of Culture.

TEACHING ASSISTANCE – EXPERIENCE:

- `03–`04 Hourly employment under the program “*All-day Public School*”, from 24/9/2003 to 10/6/2004 as an informatics teacher. Total employment hours: 245

- May `04 – July.`04 Under the framework of the research program “MAIN ACTIONS” funded by the Hellenic Ministry of Education, teaching assistance was offered on a project entitled “Specialization – adoption of the specifications for the organization of a tele-education administration room”. Supervising Professor: George Stavropoulos & Papatheodwrou Theodwros.
- July.`03 – June.`04 Under the framework of the research program “Under-graduate program of studies in Computer Science & Technology” funded by the Hellenic Ministry of Education, teaching assistance was offered on a projected entitled “ Participation on the reformulation of the lectures *Parallel Processing & Operational Systems LAB* ”. Supervising Professors: Athanasios Tsakalidis, Emmanouil Barbagigos.

SCIENTIFIC PUBLICATIONS:

Journal Articles:

- SP`13* **S. Nikolopoulos**, S. Zafeiriou, I. Patras, I. Kompatsiaris, High order pLSA for indexing tagged images, *Signal Processing*, Volume 93, Issue 8, August 2013, Pages 2212-2228, DOI: <http://dx.doi.org/10.1016/j.sigpro.2012.08.004>.
- PR`12* E. Chatzilari, **S. Nikolopoulos**, I. Patras, I. Kompatsiaris, “Leveraging social media for scalable object detection”, *Pattern Recognition*, Volume 45, Issue 8, August 2012, Pages 2962-2979, DOI: 10.1016/j.patcog.2012.02.006.
- TSMCB`11* **Spiros Nikolopoulos**, Georgios. Th. Papadopoulos, Ioannis Kompatsiaris and Ioannis Patras, "Evidence driven image interpretation by combining implicit and explicit knowledge in a bayesian network”, *IEEE Transactions on Systems, Man, and Cybernetics, Part B: Cybernetics*, vol. 41, no.5, pp.1366-1381, Oct. 2011. DOI: 10.1109/TSMCB.2011.2147781
- SPIC`11* Christina Lakka, **Spiros Nikolopoulos**, Christos Varytimidis and Ioannis Kompatsiaris, “A Bayesian network modeling approach for cross media analysis”, *Signal Processing: Image Communication* 26 (2011) 175–193. DOI: 10.1016/j.image.2011.01.004
- PR`10* **Spiros Nikolopoulos**, Stafanos Zafeiriou, Nikos Nikolaidis, Ioannis Pitas, “Image replica detection system utilizing R-trees and linear discriminant analysis”, *Pattern Recognition Journal*, Volume 43, Issue 3, March 2010, Pages 636-649, ISSN 0031-3203, DOI: 10.1016/j.patcog.2009.08.023.
- JCAM`09* Dimitrios Tsolis, **Spiridon Nikolopoulos**, Lambros Drossos, Spyros Sioutas, Theodore Papatheodorou, “Applying robust multibit

watermarks to digital images”, Journal of Computational and Applied Mathematics, Volume 227, Issue 1, Special Issue of Proceedings of NUMAN 2007 Conference: Recent Approaches to Numerical Analysis: Theory, Methods and Applications, 1 May 2009, Pages 213-220, ISSN 0377-0427, DOI: 10.1016/j.cam.2008.07.035.

Book Chapters:

- SCI ‘ 11 **S. Nikolopoulos**, E. Chatzilari, E. Giannakidou, S. Papadopoulos, I. Kompatsiaris, A. Vakali. "Leveraging Massive User Contributions for Knowledge Extraction". In book Next Generation Data Technologies for Collective Computational Intelligence, Bessis, Nik; Xhafa, Fatos (Eds.), book series: Studies in Computational Intelligence, vol. 352, 1st Edition., XVIII, 638 p. 211, Springer 2011, ISBN 978-3-642-20343-5.
- SMC’11 **Spiros Nikolopoulos**, Eirini Giannakidou, Ioannis Kompatsiaris, Ioannis Patras, and Athena Vakali, “Combining multi-modal features for social media analysis”, in book Social Media Modeling and Computing, Steven Hoi, Jiebo Luo, Susanne Boll, Dong Xu, Rong Jin, Irwin King (Eds.), 1st Edition, VIII, 276 p, Springer 2011, ISBN: 978-0-85729-435-7.
- SCI ‘ 11 Elisavet Chatzilari, **Spiros Nikolopoulos**, Ioannis Patras and Ioannis Kompatsiaris, "Enhancing Computer Vision Using the Collective Intelligence of Social Media", in book New Directions in Web Data Management 1, Athena Vakali, Lakhmi C Jain (Eds.), book series: Studies in Computational Intelligence, vol. 331, Springer 2011, ISBN: 978-3-642-17550-3.
- ISR ‘ 08 D. P. Meidanis, **S. N. Nikolopoulos**, E. G. Karatzas, and A. V. Kazantzi, “Digital rights management and e-commerce transactions: Online rights clearance,” in Digital Rights Management for E-Commerce Systems, L. Drossos, D. Tsolis, S. Sioutas, and T. Papatheodorou (Eds.) Information Science Reference, 2008, ch. X, pp. 214–243.

White papers:

- MSC’ 11* Y. Kompatsiaris, **S. Nikolopoulos** (Eds.): "Search Computing: Business Areas, Research and Socio-Economic Challenges", Media Search Cluster White Paper, European Commission, ISBN 978-92-79-18514-4, doi:10.2759/52084, September 2011
- ERCIM’12* Yiannis Kompatsiaris, **Spiros Nikolopoulos**, Thomas Lidy, Andreas Rauber: Media Search Cluster White Paper on "Search Computing". ERCIM News 2012(88): (2012)

Conference Proceedings:

- IAMICH'14* G. Chantas, S. Nikolopoulos and I. Kompatsiaris, "Multi-entity Bayesian Networks for Treasuring the Intangible Cultural Heritage", Special Session on ICT-based Analysis and Modeling of Intangible Cultural Heritage, held in conjunction with VISAPP 2014, Lisbon, Portugal, 5-8 January 2014
- VISAPP'14* E. Chatzilari, S. Nikolopoulos, Y. Kompatsiaris and J. Kittler. "Active Learning in Social Context for Image Classification", 9th International Conference on Computer Vision Theory and Applications (VISAPP) 2014, Lisbon, Portugal, 5-8 January 2014
- ACMOS'13* I. Tsampoulatidis, D. Ververidis, P. Tsarchopoulos, S. Nikolopoulos, I. Kompatsiaris, N. Komninos, "ImproveMyCity - An open source platform for direct citizen-government communication", The 21st ACM International Conference on Multimedia – Open Source Software Competition, Barcelona, Catalunya, Spain, October 21-25, 2013.
- IISA'13* S. Nikolopoulos, S. Papadopoulos and Y. Kompatsiaris. "Reality Mining in urban space", The Fourth International Conference on Information, Intelligence, Systems and Applications (IISA 2013), Workshop on Urban Computing & Modern Cities, Piraeus, Greece, July 10 – 12, 2013
- MLDM'13* E. Chatzilari, G. Liaros, S. Nikolopoulos and Y. Kompatsiaris. "A comparative study on mobile visual recognition", 9th International Conference on Machine Learning and Data Mining (MLDM 2013), New York, USA, July 19-25, 2013.
- ICMR'12* E. Chatzilari, **S. Nikolopoulos**, Y. Kompatsiaris, J. Kittler. "Multi-Modal Region Selection Approach for Training Object Detectors", ICMR 2012, Hong Kong - China, June 2012.
- SETN'12* **S. Nikolopoulos**, G. Th. Papadopoulos, I. Kompatsiaris and I. Patras, "Image interpretation by combining ontologies and bayesian networks", SETN 2012, Lamia-Greece, May 2012.
- WWW'12* Pierre Andrews, Kerstin Bischoff, Sven Buschbeck, Francesco De Natale, Claudiu S. Firan, Anthony Jameson, Vasileios Mezaris, Vanessa Murdock, Claudia Niederée, **Spiros Nikolopoulos** and Adam Rae, "GLOCAL: Event-based Retrieval of Networked Media", WWW 2012, European Project Track, Lyon-France, April 2012.
- TRECVID'11* A Moutzidou, P. Sidiropoulos, S. Vrochidis, N. Gkalelis, **S. Nikolopoulos**, V. Mezaris, I. Kompatsiaris, I. Patras, "ITI-CERTH participation to TRECVID 2011", Proc. TRECVID 2011 Workshop, December 2011, Gaithersburg, MD, USA.

- NEM'11* **S. Nikolopoulos**, S. G. Nikolov, I. Kompatsiaris, "Study on Mobile Image Search", NEM Summit: Implementing Future Media Internet, Torino, Italy, September 2011.
- CBMI'11* Elisavet Chatzilari, **Spiros Nikolopoulos**, Symeon Papadopoulos, Christos Zigkolis, Yiannis Kompatsiaris, "Semi-Supervised object recognition using flickr images", Proc. 9th International Workshop on Content-Based Multimedia Indexing (CBMI 2011), Madrid, Spain, June 2011.
- TRECVID'09* A. Moumtzidou, A. Dimou, P. King, S. Vrochidis, A. Angeletou, V. Mezaris, **S. Nikolopoulos**, I. Kompatsiaris, L. Makris, "ITI-CERTH participation to TRECVID 2009 HLFE and Search", Proc. TRECVID 2009 Workshop, November 2009, Gaithersburg, MD, USA
- ICTAI '09* Jose Iria, **Spiros Nikolopoulos**, Martin Mozina, Alberto Lavelli, Claudio Giuliano, Lorenza Romano, Damjan Kuznar and Ioannis Kompatsiaris. Cross-Media Knowledge Extraction in the Car Manufacturing Industry. In Proceedings of the 21st International Conference on Tools with Artificial Intelligence (ICTAI 2009), New Jersey, USA, November 2-4, 2009.
DOI = <http://dx.doi.org/10.1109/ICTAI.2009.86>
- MLDM '09* **Nikolopoulos, S.**, Papadopoulos, G. T., Kompatsiaris, I., and Patras, I. 2009. An Evidence-Driven Probabilistic Inference Framework for Semantic Image Understanding. In *Proceedings of the 6th international Conference on Machine Learning and Data Mining in Pattern Recognition* (Leipzig, Germany, July 23 - 25, 2009). P. Perner, Ed. Lecture Notes In Artificial Intelligence, vol. 5632. Springer-Verlag, Berlin, Heidelberg, 525-539. DOI=http://dx.doi.org/10.1007/978-3-642-03070-3_40
- DSP '09* Elisavet Chatzilari, **Spiros Nikolopoulos**, Eirini Giannakidou and Ioannis Kompatsiaris, "Leveraging Social Media For Training Object Detectors", 16th International Conference on Digital Signal Processing (DSP'09), Special Session on Social Media, 5-7 July 2009, Santorini, Greece. DOI= <http://dx.doi.org/10.1109/ICDSP.2009.5201113>
- CBMI '09* **Spiros Nikolopoulos**, Christina Lakka, Ioannis Kompatsiaris, Christos Varytimidis, Konstantinos Rapantzikos, Yannis Avrithis, "Compound Document Analysis by Fusing Evidence Across Media," *Content-Based Multimedia Indexing, International Workshop on*, pp. 175-180, 2009 Seventh International Workshop on Content-Based Multimedia Indexing, 2009. DOI= <http://dx.doi.org/10.1109/CBMI.2009.35>
- WIAMIS '09* **Spiros Nikolopoulos**, Elisavet Chatzilari, Eirini Giannakidou, Ioannis Kompatsiaris, "Towards fully un-supervised methods for generating object detection classifiers using social data," *Image Analysis for Multimedia Interactive Services, International Workshop on*, pp. 230-

233, 2009 10th Workshop on Image Analysis for Multimedia Interactive Services, 2009.

DOI = <http://dx.doi.org/10.1109/WIAMIS.2009.5031468>

- TRECVID'08* J. Molina, V. Mezaris, P. Villegas, G. Tolia, E. Spyrou, N. Sofou, J. Rodríguez-Benito, G. Papadopoulos, **S. Nikolopoulos**, J. M. Martínez, I. Kompatsiaris, P. Kapsalas, A. Dimou, E. Bru, Y. Avrithis, T. Adamek, "MESH participation to TRECVID2008 HLFE", Proc. TRECVID 2008 Workshop, November 2008, Gaithersburg, MD, USA
- TRECVID'08* Q. Zhang, G. Tolia, B. Mansencal, A. Saracoglu, N. Aginako, A. Alatan, L. A. Alexandre, Y. Avrithis, J. Benois-Pineau, K. Chandramouli, M. Corvaglia, U. Damnjanovic, A. Dimou, E. Esen, N. Fatemi, I. Garcia, F. Guerrin, A. Hanjalic, R. Jarina, P. Kapsalas, P. King, I. Kompatsiaris, L. Makris, V. Mezaris, P. Migliorati, A. Moutzidou, Ph. Mylonas, U. Naci, **S. Nikolopoulos**, M. Paralic, T. Piatrik, F. Poulin, A. M. G. Pinheiro, L. Raileanu, E. Spyrou, S. Vrochidis, "COST292 experimental framework for TRECVID 2008", Proc. TRECVID 2008 Workshop, November 2008, Gaithersburg, MD, USA.
- TRECVID'07* Q. Zhang, K. Chandramouli, U. Damnjanovic, T. Piatrik, E. Izquierdo, M. Corvaglia, N. Adami, R. Leonardi, G. Yakin, S. Aksoy, U. Naci, A. Hanjalic, S. Vrochidis, A. Moutzidou, **S. Nikolopoulos**, V. Mezaris, L. Makris, I. Kompatsiaris, B. Mansencal, J. Benois-Pineau, E. Esen, A. Alatan, E. Spyrou, P. Kapsalas, G. Tolia, P. Mylonas, Y. Avrithis, B. Reljin, G. Zajic, A. M. G. Pinheiro, L. A. Alexandre, P. Almeida, R. Jarina, M. Kuba, N. Aginako, J. Goya. "The COST292 experimental framework for TRECVID 2007", presented at TRECVID 2007 Workshop, November 2007, Gaithersburg, MD, USA.
- ICME'06* **Spiros Nikolopoulos**, Stefanos Zafeiriou, Panagiotis Sidiropoulos, Nikos Nikolaidis, Ioannis Pitas, "Image Replica Detection Using R-Trees and Linear Discriminant Analysis", in *Proc. IEEE International Conference on Multimedia and Expo (ICME' 2006)*, Toronto, Ontario, Canada, Jul. 2006.
- ICIP'06* Yannick Maret, **Spiros Nikolopoulos**, Frédéric Dufaux, Touradj Ebrahimi, Nikos Nikolaidis, "A Novel Replica Detection System using Binary Classifiers, R-trees, and PCA", in *Proc. IEEE International Conference on Image Processing (ICIP' 2006)*, Atlanta, GA, U.S.A., Oct. 2006
- VAST'06* D. K. Tsolis, **S. N. Nikolopoulos**, E. G. Karatzas, S. A. Sioutas, E. A. Hondrou, A. I. Mouriki, Ai. A. Georgiadou, T. S. Papatheodorou, "Watermarking and Digital Rights Management - A Pilot DRM System Implementation and Technical Guidelines to Cultural Digitization Projects" in *Proc. of the 7th International Symposium on Virtual Reality, Archaeology and Cultural Heritage (VAST' 2006)*, Nicosia, Cyprus, Oct. 2006.

- ICOB`05** Y. Maret, **S. Nikolopoulos**, F. Dufaux, C. Cotsaces, T. Ebrahimi, N. Nikolaidis, "Reduced Complexity Replica Detection Systems Using Binary Classifiers and R-Trees", in *Proc. of Workshop on Immersive Communication and Broadcast Systems (ICOB 2005)*, Berlin, Germany, 27-28 October, 2005.
- IMSA`05** George K. Tsolis, **Spiridon N. Nikolopoulos**, Nancy V. Kazantzi, Dimitrios K. Tsolis, Theodore S. Papatheodorou. "Re-Engineering digital watermarking of copyright protected images by using xml web services". in *Proc. of the Ninth IASTED International Conference on INTERNET & MULTIMEDIA SYSTEMS & APPLICATIONS (IMSA 2005)*, Honolulu, Hawaii, USA, 15 – 17 August, 2005, pp. 264-270.
- WaCha`05** V. Solachidis, S. Tsekeridou, **S. Nikolopoulos** and I. Pitas, "Self-Similar watermarks for counterfeiting geometrical attacks", *1st Wavila Challenge Workshop*, June 8-9, 2005, Barcelona, Spain, Electronic Proceedings
- EVA`04** Dimitrios K. Tsolis, **Spiridon N. Nikolopoulos**, Vassilis Fotopoulos, George K. Tsolis, Emmanouil G. Karatzas, Theodore S. Papatheodorou and Athanasios Skodras, "A robust watermarking method supported by an image registration mechanism for securing digital image libraries", *EVA 2004*, Florence Italy, April 2004.
- CMSD`03** D. K. Tsolis, V. Fotopoulos, G. K. Tsolis, E. G. Karatzas, **S. N. Nikolopoulos**, T. S. Papatheodorou, A. N. Skodras, "A Digital Rights Management System and Copyright Protection for Digital Images of the Official Web Portal of the Hellenic Culture" *International conference on Cross-Media Service Delivery (CMSD-2003)*, Santorini-Greece, May 2003.
- EVA`03** Dimitrios K. Tsolis, Vassilios Fotopoulos, George K. Tsolis, Emmanouil G. Karatzas, **Spiridon N. Nikolopoulos**, Theodore S. Papatheodorou and Athanasios N. Skodras, "Copyright Protection of Digital Images of Cultural Heritage. Case Study: "Ulysses", the official web portal of the Hellenic Culture ", *EVA 2003*, Florence, Italy, March 2003.

Conference Posters:

- CIVR`09** S. Vrochidis, P. King, L. Makris, A. Moutzidou, **S. Nikolopoulos**, A. Dimou, V. Mezaris, I. Kompatsiaris, "MKLab Interactive Video Retrieval System", *ACM International Conference on Image and Video Retrieval (CIVR09)* - VideoOlympics Showcase event, Santorini, Greece, July 2009
- K-CAP`07** Iria, J., Uren, V., Lavelli, A., Blohm, S., Dadzie, A., Franz, T., Kompatsiaris, I., Magalhaes, J., **Nikolopoulos, S.**, Preisach, C., and Slavazza, P. 2007. Enhancing enterprise knowledge processes via cross-media extraction. In *Proceedings of the 4th international*

Conference on Knowledge Capture (Whistler, BC, Canada, October 28 - 31, 2007). D. Sleeman and K. Barker, Eds. K-CAP '07. ACM, New York, NY, 175-176.

BSc & MSc Thesis' :

- '02 Analysis and pilot implementation of an advanced interface for the administration and protection of digital images' metadata and intellectual property rights.
- '04 Analysis/Evaluation of a robust digital watermarking method and incorporation of the method on the development of a digital rights management and protection system based on XML technologies.
- '12 PhD, Semantic multimedia analysis using knowledge and context, Queen Mary University of London

Published Studies :

- '04 *"Practical guide-handbook for the protection & management of Intellectual Property Rights of digital cultural content and a digital rights management system based on international metadata standards "*, Action Line 1.3 of the Funding Program "Information Society".

ORGANISED SCIENTIFIC EVENTS:

- '08 *Workshop on Cross media information analysis, extraction and management - December 3, 2008* - International one day workshop on Cross-media information analysis, extraction and management, hosted by the 3rd International Conference on Semantic and Digital Media Technologies, 3-5 December 2008, Koblenz, Germany

RESEARCH INTERESTS:

- Social media analysis
- Knowledge based image analysis
- Cross-media information extraction and knowledge management
- Statistical learning methods
- Still image processing
- Multimedia applications for intellectual property rights protection