

Evaggelos Spyrou

Electrical and Computer Engineer

personal

birth: 18/07/1979
single

communication

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Lamia, 35132
Greece

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languages

greek (mother)
english (excellent)
french (very good)
italian (good)

programming

C, C++, Java, Python
Basic, Pascal, Fortran
Matlab, Octave, SPSS
HTML, JavaScript, PHP
MySQL

other

Windows, Linux, Unix
Microsoft Office, L^AT_EX
Arduino
UML

professional

TEE member, reg. no:98347



short cv

Evaggelos Spyrou received his Diploma Eng. of **Electrical and Computer Engineer** from the National Technical University of Athens, in 2003. He was awarded his **PhD degree** from the Digital Image Video and Multimedia Laboratory of School of Electrical and Computer Engineering of the National Technical University of Athens in 2009. Since February 2020, he serves as **Assistant Professor** in the Department of Informatics and Telecommunications of the University of Thessaly, while he served as Assistant Professor in the Department of Computer Engineering T.E. of the Technological Educational Institute of Sterea Ellada from January 2018 to February 2020. Since June 2018 he is **Research Associate** with the Institute of Informatics and Telecommunications of National Center for Scientific Research – “Demokritos.” He has extensive experience as researcher and developer in national and european RD projects. He has also served as adjunct lecturer (P.D.407/80) from 2016 to 2019 in the Department of Informatics of the University of Thessaly and from October 2011 to September 2012 in the Department of Computers and Telecommunications of the University of West Macedonia. He has also served as scientific associate in the department of Computer Engineering T.e. of the Technological Educational Institute of Sterea Ellada from 2011 to 2018.

research interests

semantic analysis, indexing and retrieval of multimedia content, extraction and matching of low-level features, context modelling, neural networks, intelligent systems, biomedical data analysis, social network information analysis, human activity understanding, Internet-of-Things

academic positions

- | | | |
|------------|--|---|
| 2019–today | University of Thessaly
Assistant Professor, description: “Semantic Processing and Interpretation of Data with Programming Methods” (FEK 784/B’ 2019) | General Department of Lamia |
| 2018–2019 | TEI of Sterea Ellada
Επίκουρος Καθηγητής, description: “Semantic Processing and Interpretation of Data with Programming Methods” (FEK 1385/C’ 2017) | Department of Computer Engineering T.E. |
| 2018–2019 | TEI of Sterea Ellada
Director of research laboratory “Computational Intelligence, Image and Data Analysis” | Department of Computer Engineering T.E. |
| 2018–today | NCSR - “Demokritos”
Research Associate of “Computational Intelligence Laboratory” | Institute of Informatics and Telecommunications |

education

- | | | |
|-----------|---|--|
| 2004–2009 | PhD Eng.
PhD Thesis: <i>Knowledge-based semantic search of audiovisual content</i> , supervisor: <i>Stefanos Kollias, Professor, NTUA</i> | School of Electrical & Computer Eng., NTUA |
| 1998–2003 | Electrical and Computer Engineer
specialization: <i>Telecommunications</i> , grade: <i>7.62/10 (Very Good)</i> , thesis: <i>Support Vector Machines using Fuzzy Basis Function Kernels</i> , supervisor: <i>Stefanos Kollias, Professor, NTUA</i> | School of Electrical & Computer Eng., NTUA |

research experience

- 2019–today **University of Thessaly** General Department of Lamia
Assistant Professor
2019–σήμε. EPAnEK **MOTIF** – Design and Development of Intelligent Transport System to Ensure Safe Road Transport of Flammable Liquids, **Substitute Scientific Coordinator**
- 2014–today **NCSR - "Demokritos"** Institute of Informatics & Telecommunications
Research Associate (2018-today)/External Collaborator (2014-2018)
2019–σήμε. EPAnEK **ENORASI** – Intelligent Audio-visual System Enhancing Cultural Experience and Accessibility
2018–σήμε. ELIDEK **VISOR** – Virtual coaching Services for Older adults, **Scientific Coordinator**
2018–σήμε. EPAnEK **SYNTELEISIS** – Innovative Technologies and Applications Based on Internet of Things and Cloud Computing
2016–σήμε. H2020-11957/ICT20 **MaTHiSiS** – Managing Affective-learning Through Intelligent atoms and Smart Interactions
2014–2015 EPAN-II **SYNAISTHISI** – Intelligent Networks for Data Collection and Processing for Energy Conservation
- 2014–today **Ionian University** Department of Informatics
External Collaborator
2014–2016 Adriatic IPA-80224 **PACiNNO** – Platform for trans-Academic Cooperation in Innovation
- 2003–2010 **National Technical University of Athens** School of Electrical & Computer Eng.
External Collaborator
2008–2010 FP7-215453/IP **weknowit** – Emerging, Collective Intelligence for Personal, Organisational and Social Use
2006–2010 FP6-26978/IP **X-Media** – Large Scale Knowledge Sharing and Reuse Across Media
2006–2009 FP6-027685/IP **mesh** – Multimedia sEmantic Syndication for enHanced news services
2006–2009 FP6-2005-IST-5/STREP **Imagination** – Image-based Navigation in Multimedia Archives
2008–2010 FP6-027026/NoE **K-Space** – Knowledge Space of Semantic inference for automatic annotation and retrieval of multimedia content
2006–2007 EP KtP-84-**DELtIO** – Analysis of Multimedia Content using Evolutionary Ontologies and Application to Television News Bulletins
2005–2009 EPAN-03ED475 **Ontomedia** – Semantic Analysis of Multimedia Content Using Knowledge Technologies
2005–2008 EPAN-**AKMON** – Development of Intelligents Systems for Unified Access to Multimedia Information
2004–2008 FP6-001765/IP **aceMedia** – Integrating Knowledge, Semantics and Content for User-Centred Intelligent Media Services

teaching experience

higher education

- 2019–tod. **University of Thessaly** Undergraduate Curriculum of Computer Eng. T.E.
Assistant Professor – teaching of courses:
- Data Structures (Theory)
 - Human-Machine Interaction (Theory, Lab)
 - Artificial Intelligence (Theory)
 - Design and Analysis of Algorithm (Theory, Lab)
 - Graphics (Lab)
- 2019–tod. **University of Thessaly** Department of Informatics and Telecommunications
Assistant Professor – teaching of course:
- Graphics
- 2018–2019 **TEI of Sterea Ellada** Department of Computer Eng. T.E.
Assistant Professor – teaching of courses:
- Data Structures (Theory, Lab)
 - Design & Analysis of Algorithms (Theory, Lab)
 - Graphics (Theory, Lab)
 - Human-Machine Interaction (Theory, Lab)
- 2016–2019 **University of Thessaly** Department of Informatics
Lecturer, PD 407/80 – teaching of courses:
- Introduction to Programming (Lab)
 - Graphics
 - Data Structures (Lab)
 - Supervision of BSc Theses (2 ongoing)
- 2016–today **Ionian University** Department of Informatics
Invited Lecturer – Lectures in the Master’s Degree Program in Computer Science and in particular in the course:
- Informatics and New Media
- 2011–2017 **TEI of Sterea Ellada** Department of Computer Eng. T.E.
Scientific Associate/Lab Instructor – teaching of courses:
- Data Structures (Theory, Lab)
 - Programming II (Theory, Lab)
 - Design & Analysis of Algorithms (Theory, Lab)
 - Software Engineering (Theory, Lab)
 - Programming III (Lab)
 - Digital Signal Processing (Lab)
 - Computer Networks II (Lab)
 - Telecommunications (Lab)
 - Human-Machine Interaction (Theory, Lab)
 - Digital Image Processing (Theory, Lab)
 - Informatics in Education (Lab)
 - Graphics (Theory, Lab)
 - Supervision of BSc Theses (20 completed, 12 ongoing)
- 2011–2012 **University of Western Macedonia** Department of Computer Eng. & Telecommunications
Lecturer, PD 407/80 – teacher of courses:
- Computer Graphics
 - Artificial Vision

- 2004–2009 **National Technical University of Athens** School of Electrical & Computer Eng.
Lab Instructor
- Computer Graphics
 - Technology & Analysis of Images & Videos
 - Neural Networks & Intelligent Computer Systems
 - Co-supervision of Dipl. Theses (2 completed)

military schools

- 2014–2015 **Department of National Defence** School of Computer Programmers (SPHY)
Advisor
- Programming Language JAVA
 - Supervision of Diploma Theses (5 completed)

other teaching experience in higher education

- 2014–today **NCSR - "Demokritos"** Institute of Informatics & Telecommunications
Research Associate
- Co-supervision of Diploma/Bachelor Theses of several Universities
 - University of Thessaly, dept. of Electrical and Computer Engineering
 - University of Thessaly, dept. of Informatics
 - National Technical University of Athens, dept. of Electrical and Computer Engineering
 - Ionian University, dept. of Informatics
 - University of Athens, dept. of Informatics and Telecommunications
 - Supervision of Internships of University Students
 - National Technical University of Athens, dept. of Electrical and Computer Engineering
 - Technological Educational Institute of Sterea Ellada, dept. of Computer Engineering T.E.
 - University of Thessaly, dept. of Electrical and Computer Engineering
 - Ionian University, dept. of Informatics
 - University of Thessaly, dept. of Computer Science and Biomedical Informatics
 - University of Thessaly, dept. of Informatics
 - Co-supervision of MSc Theses
 - University of Athens, dept. of Informatics and Telecommunications, program "Information Technologies in Medicine and Biology"
 - University of Athens, dept. of Informatics and Telecommunications, program "Signal and Information Processing and Learning"
 - Harokopio University of Athens, dept. of Geography, program " Applied Geography and Spatial Planning"

post-secondary

- 2013–2014 **Manpower Employment Organization (O.A.E.D)** EPAS of Neo Iraklio, Attica
Trainer
- Specialty: Computer Support Technician
- 2012–2013 **Youth and Lifelong Learning Foundation** Public IEK, Lamia
Trainer
- Specialty: Computer, Communications & Networking
- 2011–2014 **Manpower Employment Organization (O.A.E.D)** IEK of Neo Iraklio, Attica
Trainer
- Specialty: of Systems Management & Service Technicians
 - Specialty: Multimedia Computer Applications

other professional experience

2011	Delphis <i>External Collaborator</i>	D. Daskalopoulos A.E.
2010–2011	Ministry of National Defense <i>Programmer/Analyst (obligatory military service)</i>	Department of Communication Systems

languages

1994	English University of Cambridge - <i>Certificate of Proficiency in English</i>	Excellent
1994	French Institut Francais d'Athenes - <i>Certificat de Langue Francaise</i>	Very good
1996	Italian Centro Linguistico Italiano Dante Alighieri - <i>Certificato della Lingua Italiana - Livello Soglia</i>	Good

seminar training

2008	Seminar for Young Researchers Topics on Information-Knowledge Society	PENED-2003
2008	Summer School on Multimedia Semantics Programme for Researchers	SSMS'08
2005	Human Network of Research and Technological Training in Multimedia Mining and Knowledge Management Technologies seminar: "The Semantic Web"	Multi-Mine

other academic activities

guest editor in scientific journals

2018	Special Issue on Image Based Information Retrieval from the Web Ph. Mylonas, E. Spyrou (eds.), Journal of Imaging (ISSN: 1999-4893) Editorial: https://doi.org/10.3390/jimaging5070062	MDPI
2018	Special Focus on Optical Measurement Methods for Health and Related Applications D. Iakovidis, E. Spyrou (eds.), Measurement Science and Technology	IOPScience
2020	Computer Vision for Biomedical Image Applications S. Karkanis, E. Spyrou, M. Savelonas (eds.), Information	MDPI
2020	Social and Semantic Trends: Tools and Applications E. Spyrou and Ph. Mylonas (eds.), Information	MDPI
2020	Pattern Recognition in Multimedia Signal Analysis Th. Giannakopoulos and E. Spyrou (eds.), Applied Sciences	MDPI

member in conference committees

2020	15th International Workshop on Semantic and Social Media Adaptation & Personalization general chair	SMAP2020
2019	20th Engineering Applications of Neural Networks conference workshop chair: "International Workshop on Pervasive Intelligence"	EANN2019
2019	11th International Conference on Pervasive Technologies Related to Assistive Environments workshop chair: "Behave: Workshop on Affective and Cognitive Modeling for Personalization in Intelligent Interactive Systems (IIS)"	PETRA2018
2018	IEEE Computational Intelligence and Games special session chair: "Integrating IoT technologies with serious games"	CIG2018
2017	12th International Workshop on Semantic and Social Media Adaptation and Personalization special session chair: "Multimodal affective analysis for human-machine interfaces and learning environments"	SMAP2017
2016	9th Hellenic Conference on Artificial Intelligence workshop chair: "Artificial Intelligence and the Internet of Things"	SETN2016
2014	Free and Open Source Software Communities Meeting local arrangements	FOSSCOM2014
2012	7th Hellenic Conference on Artificial Intelligence workshop chair: "Unified Multimedia Knowledge Representation and Processing"	SETN2012
2006	1st Int'l Conference on Semantic and Digital Media Technologies local arrangements	SAMT2006
2006	16th Int'l Conference on Artificial Neural Networks local arrangements	ICANN2006

committee member in scientific conferences

2020	International Conference on Internet and Web Applications and Services program committee member	ICIW
2020	International Conference on Social Media Technologies, Communication, and Informatics program committee member	SOTICS
2020	Hellenic Conference of Artificial Intelligence program committee member	SETN
2020	South-East Europe Design Automation, Computer Engineering, Computer Networks and Social Media Conference program committee member	SEEDA-CECNM2020
2020	Pervasive Technologies Related to Assistive Environments program committee member	PETRA2020
2020	Pervasive Technologies Related to Assistive Environments program committee member	PETRA2020
2020	21st International Conference on Engineering Applications of Neural Networks program committee member	EANN2020

2020	16th International Conference on Artificial Intelligence Applications and Innovations program committee member	AIAI2020
2018	IEEE International Conference on e-Health Networking, Applications and Services reviewer	Healthcom2018
2018	3rd World Congress on Genetics, Geriatrics and Neurodegenerative Diseases Research program committee member of Special Session on Humanistic Healthcare Informatics	GeNeDis 2018
2018	27th International Joint Conference on Artificial Intelligence and 23rd European Conference on Artificial Intelligence program committee member of workshop "Workshop on AI for Internet of Things - AI4IoT18"	IJCAI2018 & ECAI2018
2017	21th Panhellenic Conference on Informatics program committee member of special session "Home Emerging Technologies for the Internet-of-Things"	PCI2018
2017	15th International Workshop on Content-Based Multimedia Indexing reviewer	CBMI
2017	30th International Symposium on Computer-Based Medical Systems program committee member of Special Track on Computer – Aided and Robotic Endoscopy Systems	CBMS
2017	IEEE Conference on Advanced Video and Signal Based Surveillance program committee member of Smart Indoor Event and Activity Recognition Workshop (SIEARW)	AVSS
2016	European Conference on Artificial Intelligence program committee member of 2nd Workshop on Artificial Intelligence and Internet-of-Things (AI-IoT)	ECAI
2016	IEEE Computational Intelligence and Games reviewer	CIG2016
2016	Genetics, Geriatrics and Neurodegenerative Diseases Research program committee member of special session "Intelligent Humanistic Healthcare Technologies"	GeNeDis
2016–today	Mining Humanistic Data Workshop program committee member	MHDW
2015	IEEE 17th International Conference on e-Health Networking, Applications and Services reviewer	Healthcom2015
2015	19th Panhellenic Conference on Informatics program committee member of special session "Home Emerging Technologies for the Internet-of-Things"	PCI2015
2012–today	International Workshop on Semantic and Social Media Adaptation and Personalization program committee member	SMAP

reviewer in scientific journals

2020–today	Technologies	MDPI
2019–today	Clinical and Experimental Gastroenterology	Dovepress
2018–today	Artificial Intelligence in Medicine	Elsevier

2018–today	Behaviour & Information Technology	Taylor & Francis
2018–today	ICT express	Elsevier
2018–today	Journal of Biomedical and Health Informatics	IEEE
2018–today	Journal of Computational Science	Elsevier
2018–today	Multimedia Information Retrieval	Springer
2017–today	SPRS International Journal of Geo-Information	MDPI
2017–today	Journal of Location Based Services	Taylor & Francis
2017–today	Electronics Letters	IET
2017–today	Journal on Computing and Cultural Heritage	ACM
2016–today	Computers in Biology and Medicine	Elsevier
2016–today	Algorithms	MDPI
2016–today	Computers & Electrical Engineering	Elsevier
2016–today	Transactions of Fuzzy Systems	IEEE
2015–today	Engineering Applications of Artificial Intelligence	Elsevier
2015–today	Digital Signal Processing	Elsevier
2015–today	International Journal of Virtual Communities and Social Networking	IGI Global
2014–today	Sensors	MDPI
2014–today	Biomedical Signal Processing and Control	Elsevier
2014–today	The Scientific World Journal	Hindawi
2014–today	International Journal of Distributed Sensor Networks	Hindawi
2014–today	Transactions on Multimedia	IEEE
2013–today	International Journal On Semantic Web and Information Systems	IGI Global
2013–today	Journal of Real Time Image Processing	Springer
2011–today	Computer Vision and Image Understanding	Elsevier
2009–today	Pattern Recognition	Elsevier
2008–today	Signal, Image and Video Processing	Springer
2007–today	Multimedia Tools and Applications	Springer
2007–today	Neurocomputing	Elsevier
2007–today	ETRI Journal	ETRI

evaluator

2014-today	General Secretariat of Research and Technology evaluator of project proposals	GSRT
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participation in research actions

2006–2008	Semantic Multimodal Analysis of Digital Media	COST292
2006–2008	TREC Video Retrieval Evaluation	TRECVID

publications

in brief

articles in scientific journals: **19** **419** citations
edited books: **1** **10** h-index
chapters in collective volumes: **7** **10** i10-index
conference proceedings: **94** **12/04/17**: citations' update

Google scholar profile: <http://goo.gl/vSUj1W>
DBLP search: <http://goo.gl/7KjEsp>
Scopus search: <http://goo.gl/F1bGE2>
ResearchGate page: <https://goo.gl/TJDCDB>

journals

- J19. E. Mathe and **E. Spyrou**, *User Evaluation of Low-cost, Non-invasive Methods for Heart-Rate Measurement*. Journal of Usability Studies, vol.15, issue 3, UXPA, **2020**
- J18. G. Paraskevopoulos, **E. Spyrou**, D. Sgouropoulos, Th. Giannakopoulos and Ph. Mylonas, *Real-Time Arm Gesture Recognition using 3D Skeleton Joint Data*. Algorithms, 12(5), 108, **2019**
DOI: <https://doi.org/10.3390/a12050108>
- J17. **E. Spyrou**, R. Nikopoulou, I. Vernikos and Ph. Mylonas, *Emotion Recognition from Speech Using the Bag-of-Visual Words on Audio Segment Spectrograms*. Technologies 2019, 7(1), 20, MDPI, **2019**
DOI: <https://doi.org/10.3390/technologies7010020>
- J16. M. Vasilakakis, D. Iakovidis, **E. Spyrou** and A. Koulaouzidis, *DINOSARC: Color Features based on Selective Aggregation of Chromatic Image Components for Wireless Capsule Endoscopy*. Computational and Mathematical Methods in Medicine, Vol. 2018, Article ID 2026962, Hindawi, **2018**
Impact Factor 2018: **1.563**, DOI: <https://doi.org/10.1155/2018/2026962>
- J15. N. Vretos, P. Daras, S. Asteriadis, E. Hortal, E. Ghaleb, **E. Spyrou**, H. C. Leligou, P. Karkazis, P. Trakadas, K. Assimakopoulos, *Exploiting sensing devices availability in AR/VR deployments to foster engagement*. Virtual Reality, Springer, **2018**
Impact Factor 2018: **2.906**, DOI: <https://doi.org/10.1007/s10055-018-0357-0>
- J14. M. Vasilakakis, D. Diamantis, **E. Spyrou**, A. Koulaouzidis and D. Iakovidis, *Weakly Supervised Multilabel Classification for Semantic Interpretation of Endoscopy Video Frames*. Evolving Systems, Springer, **2018**
DOI: <http://dx.doi.org/10.1007/s12530-018-9236-x>
- J13. Y. Voutos, Ph. Mylonas, **E. Spyrou** and E. Charou, *A Social Environmental Sensor Network Integrated within a Web GIS Platform*. Journal of Sensor and Actuator Networks, 6(4), 27, MDPI, **2017**
DOI: <http://dx.doi.org/10.3390/jsan6040027>
- J12. G. Dimas, **E. Spyrou**, D. Iakovidis, and A. Koulaouzidis, *Intelligent Visual Localization of Wireless Capsule Endoscopes Enhanced by Color Information*. Computers in Biology and Medicine, vol. 89, pp. 429-440, Elsevier, **2017**
Impact Factor 2018: **2.286**, DOI: <https://doi.org/10.1016/j.combiomed.2017.08.029>
- J11. M. Korakakis, **E. Spyrou**, Ph. Mylonas and S.J. Perantonis, *Exploiting social media information towards a context-aware recommendation system*. Social Network Analysis and Mining 7(1), 42, Springer, **2017**
DOI: <http://doi.org/10.1007/s13278-017-0459-9>

- J10. M. Papakostas, **E. Spyrou**, T. Giannakopoulos, G. Siantikos, D. Sgouropoulos, Ph. Mylonas and F. Makedon, *Deep Visual Attributes vs. Hand-Crafted Audio Features on Multidomain Speech Emotion Recognition*. *Computation* 5(2), 26, MDPI, **2017**
DOI: <http://dx.doi.org/10.3390/computation5020026>
- J09. **E. Spyrou**, M. Korakakis, V. Charalampidis, A. Psallas and Ph. Mylonas, *A Geo-Clustering Approach for the Detection of Areas-of-Interest and their Underlying Semantics*. *Algorithms* 10(1), 35, MDPI, **2017**
DOI: <http://dx.doi.org/10.3390/a10010035>
- J08. **E. Spyrou** and Ph. Mylonas, *A survey on Flickr multimedia research challenges*. *Engineering Applications of Artificial Intelligence*, vol. 51, pp. 71–91 Elsevier, **2016**
Impact Factor 2018: **3.526**, citations: **3**, DOI: <http://dx.doi.org/10.1016/j.engappai.2016.01.006>
- J07. **E. Spyrou** and Ph. Mylonas, *Analyzing Flickr metadata to extract location-based information and semantically organize its photo content*. *Neurocomputing*, vol. 172, pp. 114–133, Elsevier, **2016**
Impact Factor 2018: **4.072**, citations: **4**, DOI: <http://dx.doi.org/10.1016/j.neucom.2014.12.104>
- J06. **E. Spyrou**, D. Iakovidis, S. Niafas and A. Koulaouzidis, *Comparative Assessment of Feature Extraction Methods for Visual Odometry in Wireless Capsule Endoscopy*. *Computers in Biology and Medicine*, vol. 65, pp. 297–307, Elsevier, **2015**
Impact Factor 2018: **2.286**, citations: **2**, DOI: <http://dx.doi.org/10.1016/j.compbiomed.2015.05.013>
- J05. A. Koulaouzidis, D.K. Iakovidis and **E. Spyrou**, *Wireless Capsule Endoscope Localisation Based On Visual Odometry*. *Gut*, BMJ Publishing Group, vol. 63, suppl 1, p. A44, **2014**
Impact Factor 2018: **17.943**, citations: **1**, DOI: <http://dx.doi.org/10.1136/gut.jnl-2014-307263.90>
- J04. **E. Spyrou** and D.K. Iakovidis, *Video-based measurements for wireless capsule endoscope tracking*. *Measurement Science and Technology*, IOP Publishing, vol. 25, issue 1, p.015002, **2014**
Impact Factor 2018: **1.861**, citations: **15**, DOI: <http://dx.doi.org/10.1088/0957-0233/25/1/015002>
- J03. G. Tolia, Y. Kalantidis, M. Phiniketos, **E. Spyrou**, Ph. Mylonas and Y. Avrithis, *VIRaL: Visual Image Retrieval and Localization*. *Multimedia Tools and Applications*, Springer, vol. 51, no 2, pp. 555–592, **2011**
Impact Factor 2018: **2.101**, citations: **45**, DOI: <http://dx.doi.org/10.1007/s11042-010-0651-7>
- J02. **E. Spyrou**, G. Tolia, Ph. Mylonas and Y. Avrithis, *Concept Detection and Keyframe Extraction Using a Visual Thesaurus*. *Multimedia Tools and Applications*, Springer, vol. 41, no 3, pp. 337–373, **2009**
Impact Factor 2018: **2.101**, citations: **17**, DOI: <http://dx.doi.org/10.1007/s11042-008-0237-9>
- J01. Ph. Mylonas, **E. Spyrou**, Y. Avrithis and S. Kollias, *Using Visual Context and Region Semantics for High-Level Concept Detection*. *IEEE Transactions on Multimedia*, vol. 11, no 2, pp. 229–243, **2009**
Impact Factor 2018: **5.452**, citations: **38**, DOI: <http://dx.doi.org/10.1109/TMM.2008.2009681>

edited books

- V01. **E. Spyrou**, D.K. Iakovidis and Ph. Mylonas (eds.), *Semantic Multimedia Analysis and Processing*. Digital Imaging and Computer Vision series - CRC Press - **2014**
citations: **4**, ISBN: **9781466575493**

book chapters

- B07. D. Iakovidis, D. Diamantis, D. Dimas, C. Dakolia and **E. Spyrou**, *Digital Enhancement of Cultural Experience and Accessibility for the Visually Impaired*, Sara Paiva (ed.) *Technological Trends in Improved Mobility of the Visually Impaired*, Springer, **2020**.
DOI: https://doi.org/10.1007/978-3-030-16450-8_10

- B06. G. Tzortzis, C. Akasiadis and **E. Spyrou**, *Semantic Service Composition within an IoT Ecosystem*. R. Armentano, R.S. Bhadoria, P. Chatterjee and G.C. Deka (eds.), *The Internet of Things: Foundation for Smart City, eHealth and Ubiquitous Computing*, Taylor and Francis, **2017**.
DOI: <https://doi.org/10.1201/9781315156026-10>
- B05. D. Sgouropoulos, Th. Giannakopoulos, G. Siantikos, **E. Spyrou** and S. Perantonis, *Detection of Clothes Change Fusing Color, Texture, Edge and Depth Information*. M.S. Obaidat, A. Holzinger and J. Filipe (eds.), *E-Business and Telecommunications*, vol. 554 of *Communications in Computer and Information Science*, pp. 383-392, Springer, **2015**
citations: 1, DOI: http://dx.doi.org/10.1007/978-3-319-25915-4_20
- B04. **E. Spyrou**, Ph. Mylonas and S. Kollias, *Concept-Based Multimedia Processing using Semantic and Contextual Knowledge*. R. Lukac (ed.), *Perceptual Digital Imaging: Methods and Applications*, CRC Press, **2012**
URL: <http://www.crcnetbase.com/doi/abs/10.1201/b13016-13>
- B03. **E. Spyrou** and Y. Avrithis, *Detection of High-Level Concepts in Multimedia*. B. Furht (ed.), *Encyclopedia of Multimedia*, 2nd Edition, Springer, **2008**
citations: 2, DOI: http://dx.doi.org/10.1007/978-0-387-78414-4_16
- B02. **E. Spyrou** and Y. Avrithis, *High-Level Concept Detection in Video Using a Region Thesaurus*. I. Maglogiannis, K. Karpouzis, M. Wallace and J. Soldatos (eds.), *Emerging Artificial Intelligence Applications in Computer Engineering*, Series in *Frontiers in Artificial Intelligence and Applications*, IOS Press, **2007**
citations: 1, URL: <http://ebooks.iospress.nl/volumearticle/3675>
- B01. S. Dasiopoulou, **E. Spyrou**, Y. Avrithis, Y. Kompatsiaris and M.G. Strintzis, *Semantic Processing of Color Images*. R. Lukac and K. N. Plataniotis (eds.), *Color Image Processing: Emerging Applications*, CRC Press, **2006**
citations: 6, DOI: <http://dx.doi.org/10.1201/9781420009781.ch11>

conference proceedings

- C94. S. Karkanis, M. Savelonas, **E. Spyrou**, D. Koulocheris, C. Vossou and Th. Tsiourva, *Smart processing of sensor data set up on heavy vehicles for the evaluation of driving safety during freight transport*, In Proc. of 48th European Transport Conference (ETC), **2020**
- C93. I. Vernikos, **E. Spyrou**, M. Savelonas and S. Karkanis, *An Image-Based Approach for Classification of Driving Behaviour using CNNs*. In Proc. of Conference on Sustainable Urban Mobility - Virtual (CSUM), **2020**
- C92. A. Papadakis, I. Vernikos, E. Mathe and **E. Spyrou**, *Skeleton Geometric Transformation For Human Action Recognition Using Convolutional Neural Networks*. In Proc. of International Conference on Pervasive Technologies Related to Assistive Environments (PETRA), **2020**
- C91. E. Mathe, A. Tranou, **E. Spyrou** and S. Perantonis, *Human Action Recognition with Deep Learning Techniques*. In Proc. of International Conference on Pervasive Technologies Related to Assistive Environments (PETRA), **2020**
- C90. G. Pikramenos, G. Smyrnis, I. Vernikos, T. Konidaris, **E. Spyrou** and S. Perantonis. *Sentiment Analysis from Sound Spectrograms via Soft BoVW and Temporal Structure Modelling*. In Proc. of Int'l Conf. on Pattern Recognition Applications and Methods (ICPRAM), **2020**
DOI: <https://doi.org/10.1145/3316782.3322740>
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