Europass
Curriculum Vitae

Personal information

First name(s) / Surname(s)	**Margarita Kotti**
Address(es)	16 Vlaxava Street GR-54634 Thessaloniki Greece
Telephone(s)	+30 2310 207068 Mobile +30 6972535613 +30 23860 23337
E-mail(s)	mkotti@it.teithe.gr; margarita.kotti@isti.cnr.it; cs01702@cc.uoi.gr
Nationality	Greek
Date of birth	28 October 1982
Gender	Female
Webpage	http://users.uoi.gr/cs01702/MargaritaKotti

Work experience

Dates	01 July 2004 - 31 August 2004
Occupation	Junior research staff at Artificial Intelligence and Information Analysis Laboratory
Main activities and responsibilities	Project Management Support
Name of employer	Professor Ioannis Pitas, Department of Computer Science, Aristotle University of Thessaloniki, Greece

Dates	22 July 2005 – 31 July 2005
Occupation	Researcher
Main activities	Participation in the project MUSCLE (multimedia data mining and machine learning)
Name and address of employer	Professor Ioannis Pitas, Department of Computer Science, Aristotle University of Thessaloniki, Greece

Dates	01 August 2005 – 14 September 2005
Occupation	Research assistant
Main activities	Research on feature extraction and speaker segmentation
Name of employer	Associate Professor Constantine Kotropoulos, Department of Computer Science, Aristotle University of Thessaloniki, Greece

Dates	15 September 2005 – 30 November 2005
Occupation	Researcher
Main activities	Participation in the project VISNET (Networked Audiovisual Media Technologies)
Name of employer	Professor Ioannis Pitas, Department of Computer Science, Aristotle University of Thessaloniki, Greece

Dates	01 December 2005 – 31 December 2005
Occupation	Researcher
Main activities	Participation in the project Pythagoras II (Efficient Organizing, Browsing, and Retrieval Techniques in Multimedia)
Name of employer	Professor Ioannis Pitas, Department of Computer Science, Aristotle University of Thessaloniki, Greece

Dates	01 January 2006 – 31 December 2008
Occupation	Researcher
Main activities	Participation in the project PENED03 (Multimodal Affect Recognition in Call-Centers)
Name of employer	Associate Professor Constantine Kotropoulos, Department of Computer Science, Aristotle University of Thessaloniki, Greece

Dates	01 January 2009 – 30 September 2010
Occupation	Researcher
Main activities	Research services for information technology companies

Name of employer	ISOSOFT Ltd, Motive Ltd
Dates	School years 2005-2006, 2006-2007, 2007-2008, 2008-2009
Occupation	High School Teacher
Main activities	Reinforcement of students that face learning difficulties
Name of employer	Ministry of education and religious affairs
Dates	Academic years 2005-2006, 2006-2007, 2007-2008
Occupation	Teaching assistant
Main activities	Correcting papers and giving lectures for the courses of Signals and Systems and Stochastic Signal Processing
Name of employer	Associate Professor Constantine Kotropoulos, Department of Computer Science, Aristotle University of Thessaloniki, Greece
Dates	01 October 2009 – 30 June 2010
Occupation	Post-doc researcher
Main activities	Development of speech interfaces for web applications, speech emotion recognition
Name of employer	Dr. Fabio Paternò, Human Interfaces in Information Systems, National Research Council, Pisa, Italy
Dates	01 March 2011 – 30 September 2011
Occupation	Adjunct assistant professor at Department of Information Technology
Main activities	Teaching Operating Systems II
Name of employer	Alexander Technological Educational Institute of Thessaloniki, Greece
Dates	13 July 2010 – 15 October 2011
Occupation	Digital data expert
Main activities	Cybercrime investigation expert
Name of employer	Hellenic Ministry of Citizen Protection, Thessaloniki, Greece
Dates	01 March 2012 – today (contract ends on 30 September 2012)
Occupation	Adjunct assistant professor at Department of Vehicle Technology
Main activities	Teaching Process Simulation using MATLAB
Name of employer	Alexander Technological Educational Institute of Thessaloniki, Greece
Dates	1 February 2012 – today
Occupation	Research associate for Thalis project
Main activities	Machine Learning Classification for Forecasting
Name of employer	Research Committee of Alexander Technological Educational Institute of Thessaloniki, Greece
Dates	16 October 2011 – today
Occupation	Digital data expert
Main activities	Audio/computer forensics expert
Name of employer	Hellenic Ministry of Citizen Protection, Thessaloniki, Greece

Education and training

Dates	01 October 2001 - 21 July 2005
Title of qualification awarded	Degree in Computer Science with distinction and honours
Area of specialty	Information and communication technologies in Education
Level in national classification	1st among the classmates of year 2005 in the Department of Computer Science, grade 9.62/10
	1st among the graduates in the Department of Computer Science since its foundation (1992)
Dates	09 November 2005 – 9 June 2009
Title of qualification	PhD degree with honors
Subject	Digital Speech Processing with Application to Emotional Speech Recognition (available at http://phdtheses.ekt.gr/eadd/handle/10442/20565 in Greek)
Supervisor	Associate Professor Constantine Kotropoulos
Dates	15 July 2010 – 01 September 2010
Title of qualification	Police Expert Training
Subject	Training focused on legal issues, cybercrime, and digital forensics

Personal skills and competences

Mother tongue(s)	**Greek**

Other language(s)

Self-assessment
European level (*)

	Understanding				Speaking				Writing	
	Listening		Reading		Spoken interaction		Spoken production			
English	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
German	A2	Basic user	A2	Basic user	A2	Basic user	A2	Basic user	A2	Basic user

(*) [Common European Framework of Reference (CEF) level](#)

Social skills and competences	Participation in 1999 Euroscola meeting
Technical skills and competences	Line, engineering, and electrical circuits drawing
Artistic skills and competences	Cinema and theatre viewing
Other skills and competences	Technical support to the webpage and document management system of Artificial Intelligence and Information Analysis Laboratory
Driving licence(s)	Car driving licence
	Sailing licence (master captain)
Certificates	Informatics Certificate by Stratigakis Group, SA, May 1995
	First Certificate in Computing, University of Oxford, July 1996
	Certificate of Proficiency in English, University of Michigan, March 2004

Scholarships, Awards, Distinctions and Honors

Scholarship of excellence in Computer Science by the State Scholarship Foundation for the academic year 2001-2002

Scholarship of excellence in Computer Science by the State Scholarship Foundation for the academic year 2002-2003

Scholarship of excellence in Computer Science by the State Scholarship Foundation for the academic year 2003-2004

Excellence award in Computer Science by the State Scholarship Foundation for the academic year 2001-2002

Excellence award in Computer Science by the State Scholarship Foundation for the academic year 2002-2003

Distinction and award for achieving the highest grade in Computer Science department of Aristotle University of Thessaloniki by the State Scholarship Foundation, July 2005

Scholarship by the Propondis Public Welfare Foundation for graduate studies in Computer Science

Award from IBM Watson chosen as **1 of the 12 top senior PhD students in multimedia research, worldwide selection;** participation in Watson Emerging Leaders in Multimedia Research Workshop 2008

ERCIM post-doc fellow at the National Research Council of Italy, Institute of Informatics Science and Technology and French National Institute for Research in Computer Science and Control

Curriculum Vitae published in Marquis Who's Who in the World, 2010

Reviewer

15th European Signal Processing Conference

16th European Signal Processing Conference

5th International Symposium on Parallel and Distributed Processing and Applications

2009 IEEE International Symposium on Circuits and Systems

2009 QMUL IEEE Student Paper Contest

18th European Signal Processing Conference

	2012 IEEE Symposium on Industrial Electronics & Applications
	IET Signal Processing Journal
	International Journal of AI Tools
	IEEE Signal Processing Letters
	2012 IEEE Symposium on Industrial Electronics and Applications
Program Committee	6th Iberian Conference on Pattern Recognition and Image Analysis
Member of Scientific Societies and fellowships	Affiliate member of the IEEE Technical Committee on Machine Learning for Signal Processing
	Affiliate member of the IEEE Technical Committee on Information Forensics and Security
	Member of the Greek Computer Scientists Association
	Member of the Hellenic Association of Female Academics
	Fellow of the National Research Council of Italy, Institute of Informatics Science and Technology
	Member of EUCogII (2nd European network for the advancement of artificial cognitive systems, interaction and robotics)
	Contributor to the Bayes and the Law network
	Member of EUCogIII (3rd European network for the advancement of artificial cognitive systems, interaction and robotics)

Invited Speaker

1. Invited speaker in [Watson Emerging Leaders in Multimedia Research Workshop 2008](), chosen as 1 of the 12 top senior PhD students in multimedia research (worldwide selection), "Efficient and robust audio archive management: A study on speaker segmentation and movie dialogue detection"; IBM Watson research center, October 2008

2. Invited speaker by Prof. Gonzalo R. Arce in the University of Delaware, department of Electrical and Computer Engineering, "Audio archive management", December 2008

3. Invited speaker by Dr. Fabio Paternò in the CNR-ISTI, "Introduction to machine learning and its applications to world wide web", Pisa, Italy, March 2010

4. Invited speaker by the Parents Association of Oraiokastro Thessalonikis, "Safer Internet for children and teenagers, the case of additction", March 2011

International Journals

1. M. Kotti, E. Benetos, and C. Kotropoulos, "A neural network approach to audio-assisted movie dialogue detection", *Neurocomputing, Special Issue: Advances in Neural Networks,* vol. 71, no. 1-3, pp. 157-166, December 2007

2. M. Kotti, V. Moschou, and C. Kotropoulos, "*Speaker segmentation and clustering*", J. *Signal Processing*, vol. 88, no. 5, pp. 1091-1124, May 2008

3. M. Kotti, E. Benetos, and C. Kotropoulos, "Computationally efficient and robust BIC-based speaker segmentation", *IEEE Trans. Audio, Speech, and Language Processing*, vol. 16, no. 5, pp. 920-933, July 2008

4. M. Kotti, D. Ververidis, G. Evangelopoulos. I. Panagakis, C. Kotropoulos, P. Maragos, and I. Pitas "Audio-assisted movie dialogue detection", *IEEE Trans. Circuits and Systems for Video Technology: Special issue on Event Analysis in Videos*, vol. 18, no. 11, pp. 1618-1627, November 2008

5. G. Almpanidis, M. Kotti, and C. Kotropoulos, "Robust detection of phone segments in continuous speech using model selection criteria", *IEEE Trans. Audio, Speech, and Language Processing*, vol. 17, no. 2, pp. 287-298, February 2009

6. M. Kotti and F. Paterno, "A practical system for speaker-independent emotion recognition exploiting a binary classification schema", *International Journal of Speech Technology*, vol. 15, no 2, pp. 131-150, June 2012

International Conferences

1. E. Benetos, M. Kotti, C. Kotropoulos, J.J. Burred, G. Eisenberg, M. Haller and T. Sikora, "Comparison of subspace analysis-based and statistical model-based algorithms for musical instrument classification", in Proc. *2nd Workshop On Immersive Communication And Broadcast Systems*, Berlin, Germany, October 2005

2. M. Kotti, E. Benetos, C. Kotropoulos, and L. G. Martins, "Speaker change detection using BIC: a comparison on two datasets", in Proc. *Int. Symposium on Communications, Control and Signal Processing*, Marrakech, Morocco, March 2006

3. E. Benetos, M. Kotti, and C. Kotropoulos, "Application of non-negative matrix factorisation to musical instrument classification", in Proc. *2nd Int. Symp. Communications, Control and Signal Processing*, Marrakech, Morocco, March 2006

4. M. Kotti, E. Benetos, and C. Kotropoulos, "Automatic speaker change detection with the Bayesian information criterion using MPEG-7 and a fusion scheme", in Proc. *IEEE Int. Symposium on Circuits & Systems*, Island of Kos, Greece, May 2006

5. E. Benetos, M. Kotti, and C. Kotropoulos, ''Musical instrument classification using non-negative matrix factorization algorithms'', in Proc. *IEEE Int. Symposium on Circuits & Systems*, Island of Kos, Greece, May 2006

6. E. Benetos, M. Kotti, and C. Kotropoulos, "Musical instrument classification using non-negative matrix factorization and subset feature selection", in Proc. *IEEE Int. Conf. Acoustics, Speech, and Signal Processing*, Toulouse, France, May 2006

7. M. Kotti, E. Benetos, C. Kotropoulos, L. G. Martins, and J. Cardoso, "Automatic speaker segmentation using multiple features and distance measures: a comparison on three approaches", in Proc. *IEEE Int. Conf. Multimedia & Expo*, Ontario, Canada, July 2006

8. E. Benetos, M. Kotti, and C. Kotropoulos, "Applying supervised classifiers on non-negative matrix factorization to musical instrument classification", in Proc. *IEEE Int. Conf. Multimedia & Expo*, Ontario, Canada, July 2006

9. M. Kotti, C. Kotropoulos, B. Ziolko, I. Pitas and V. Moschou, "A framework for dialogue detection in movies", in Proc. *Int. Workshop on Multimedia Content Representation, Classification, and Security*, Istanbul, Turkey, September 2006

10. E. Benetos, M. Kotti, and C. Kotropoulos, "Large scale musical instrument identification", in Proc. *4th Sound and Music Computing Conf.*, Lefkada, Greece, July 2007

11. M. Kotti, E. Benetos and C. Kotropoulos, "Neural network-based movie dialogue detection", in Proc *10th International Conference on Engineering Applications of Neural Networks*, Thessaloniki, Hellas, August 2007

12. V. Moschou, M. Kotti, E. Benetos, and C. Kotropoulos, "Systematic comparison of BIC-based speaker segmentation systems", in Proc. *Int. Workshop Multimedia Signal Processing*, Chania, Hellas, October 2007

13. D. Spachos, A. Zlatintsi, V. Moschou, P. Antonopoulos, E. Benetos, M. Kotti, K. Tzimouli, C. Kotropoulos, N. Nikolaidis, P. Maragos, and I. Pitas, ``MUSCLE movie database: A multimodal corpus with rich annotation for dialogue and saliency detection", in Proc. *6th Int. Conf. Language Resources and Evaluation*, Marrakech, Morocco, May 2008

14. M. Kotti and C. Kotropoulos, "Gender classification in two emotional speech databases", in Proc. *19th International Conference on Pattern Recognition*, Tampa, USA, December 2008

15. M. Kotti, F. Paternò, and C. Kotropoulos, ``Speaker-independent negative emotion recognition", in Proc. *2nd Int. Workshop Cognitive Information Processing,* Elba Island, Italy, June 2010

16. K. Diamantaras and M. Kotti, ``Binary classification by minimizing the mean squared slack", in Proc. *IEEE Int. Conf. Acoustics, Speech, and Signal Processing*, Kyoto, Japan, March 2012

17. *M. Kotti and K. Diamantaras* ``Towards Minimizing the Energy of Slack Variables for Binary Classification", in Proc. *European Signal Processing Conference*, Bucharest, Romania, submitted

18. *M. Kotti and K. Diamantaras* ``Efficient Binary Classification through energy minimazation of slack variables ", in Proc. I*EEE Int. Workshop Machine Learning for Signal Processing, Santander, Spain,* submitted

Citation List (excluding self-citations)

113 (till November 2011 - citation list available upon request)

Attendance of Seminars, Conferences, Summer Schools

1. Computing courses from Stratigakis Educational Group, Grade: 19.53/20 - May 1995

2. First Certificate in Computing – University of Oxford – July 1996

3. 2nd National conference on Artificial Intelligence, by Greek Artificial Intelligence Institution and Aristotle University of Thessaloniki, Thessaloniki, Greece, April 2002

4. 1st International conference on Mathematics and Informatics for Industry, by European program MathIND, Thessaloniki, Greece, April 2003

5. 1st Balkan conference and 9th Panhellenic conference on Informatics, by Greek Computer Society, Thessaloniki, (both attendance and technical support) Greece, November 2003

6. 2nd Panhellenic conference on Informatics and Teaching, by Aristotle University of Thessaloniki, Thessaloniki, Greece, May 2004

7. Summer School 'Speech and Audio coding for telecommunication and multimedia', artificial intelligence and information analysis lab (AIIA), Prof. Antreas Spanias, Thessaloniki, Greece, July 2004.

8. Summer School 'Enriched multimedia', artificial intelligence and information analysis lab (AIIA), Prof. Panagiotis Nasiopoulos, Thessaloniki, Greece, July 2004.

9. 3rd International students' spring symposium on Internet and Web Technologies, by South-East European Research Centre, ACM Student Chapter of Greece, CITY Open Source Community, and Greek Computer Society, Thessaloniki, Greece, May 2004

10. 4th Panhellenic conference on Teaching Applied Sciences, by Aristotle University of Thessaloniki, Thessaloniki, Greece, May 2008

11. Seminar on Planning Informatics Lessons, by Career Counselling Corp, Thessaloniki, Greece, September 2008

12. Seminar on Applied Teaching, by Career Counselling Corp, Thessaloniki, Greece, October 2008

13. Seminar on Internet as addiction, Aminteo, Greece, March 2009

14. Seminar on using Computer Science in Teaching, Aminteo, Greece, March 2009

15. IEEE International conference on Audio, Speech, and Signal Processing, Taipei, Taiwan, April 2009

16. Summer School: Cognitive Science and Machine Learning by Pascal2, University College London, Cambridge University, UC Berkeley, Manchester University, Max Planck Institute for Biological Cybernetics, and MIT, (both attendance and technical support), Pula, Italy, May 2010

17. Summer School: Special officers training on cybercrime, information analysis, secure communications, organized crime, scientific police, law enforcement, and economic science principals, Hellenic Ministry of Citizen Protection, Athens, July-September 2010

18. Seminar on Informatics applied in Education – Science and Tool, by Greek Association of Computer Scientists, Center of Science Diffusion, November 2010

19. Seminar on Consciousness, David Gamez, Whitehead Lecture, Goldsmiths College, London, December 2010

20. Seminar on Model Checking Networks of Excitable Cells, Ezio Bartocci, AUTH, Thessaloniki, December 2010

21. Workshop on Green ICT by International Hellenic University, Thessaloniki March 2011

22. Workshop on e-Commerce & Digital Entrepreneurship in Greece by International Hellenic University, Thessaloniki March 2011

23. 2nd European Network for the Advancement of Artificial Cognitive Systems, Interaction and Robotics, 4th EUCogII Members Conference "Embodiment - Fad or Future?", Anatolia Collage, Thessaloniki, April 2011

24. IEEE International conference on Audio, Speech, and Signal Processing, Prague Czech Republic, May 2011

25. Seminar by the experts of DEE (DEE is the Greek part of the European Network of Forensic Science Institutes - ENFSI), workshop on forensics sciences (for example DNA, fingerprint, digital forensics, specialist evidence recovery imaging services, chemical and physical analysis of explosives, gunshots, evidence recovery unit etc), Thessaloniki, Greece, June 2011

26. Cepol webinar, The current Cyber threat landscape and its evolution, July 2011

27. Philosophy & Theory of Artificial Intelligence, 2nd European Network for the Advancement of Artificial Cognitive Systems, Interaction and Robotics (Eucog II), Anatolia Collage, Thessaloniki, October 2011

28. 1st Workshop on cybercrime and economic crime for specialized officers, Hellenic police headquarters, Hellenic ministry of citizen protection, Athens, October 2011.
29. Cepol webinar, IPv6, Prof. Dimitris Kalogeras, December 2011
30. Workshop "Challenges for Artificial Cognitive Systems II", 2nd European Network for the Advancement of Artificial Cognitive Systems, Interaction and Robotics (Eucog II), Oxford, 20-22 January 2012
31. Cepol webinar, Cybercrime, February 2012
32. Workshop on ICT: Market Trends and Employment Opportunities by International Hellenic University, Thessaloniki, February 2012
33. 10th International Conference on Latent Variable Analysis and Source Separation, LVA/ICA 2012, Tel-Aviv, Israel, March, 2012.
34. 2nd Greek Signal Processing JAM, European Association for Signal Processing, IEEE Signal Processing Society, and the Department of Informatics, Thessaloniki, Greece, May 2012