

**PERSONAL INFORMATION**

Name (Surname, First name)	<b>DR. POTAMITIS ILYAS</b>
Work Address	Hellenic Mediterranean University (HMU), Dept. of Music Technology & Acoustics, 71500 Rethymno, Crete, Greece
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E-mail	<a href="mailto:potamitis@hmu.gr">potamitis@hmu.gr</a>
Nationality	Greek
Date of birth	11 <sup>TH</sup> September, 1972
Gender	Male
Marital status	Married, 1 child
URL	<a href="https://www.hmu.gr/mta/node/1396">https://www.hmu.gr/mta/node/1396</a>
Scholar	<a href="https://scholar.google.gr/citations?user=gWZ4dTUAAAAJ&amp;hl=en">https://scholar.google.gr/citations?user=gWZ4dTUAAAAJ&amp;hl=en</a>

**RESEARCH INTERESTS**

Dr. Potamitis' research area is signal processing and pattern recognition on bioacoustic signals. His current areas of interest include automatic insect recognition through wingbeats, bird/cetaceans/bats vocalisations recognition and the challenges that arise with the wider adoption of ambient intelligence/ubiquitous bioacoustic applications. Such challenges also include the general concept of the soundscape and automatic biodiversity monitoring. He applies deep learning techniques and embeds them in specialized hardware to be compatible with IoT technology.

**EDUCATION**

2002	PhD in Electrical and Computer Engineering University of Patras, Greece Polytechnic School Electrical and Computer Engineering Department
1995	Diploma in Electrical and Computer Engineering (5 years degree) Accepted 4 <sup>th</sup> /148 (National level). Graduation with grade 8.03 / 10 (2 <sup>nd</sup> in class)

**TEACHING EXPERIENCE**

Nov 2017 onwards	Full Professor Hellenic Mediterranean University (HMU) Dept. of Music Technology & Acoustics Heraklion, Crete, Greece <a href="http://www.hmu.gr/">http://www.hmu.gr/</a>
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Teaching:

- Digital Signal Processing
- Calculus I
- Applied Mathematics II
- Computer Programming (Python)

September 2005 – July 2011  
(6 Academic Terms)

Open University [ Education Institute ]  
Computer Science Dept.  
Patras, Greece  
[http://www.eap.gr/index\\_en.php](http://www.eap.gr/index_en.php)  
Teaching: Computer Science

## RESEARCH EXPERIENCE

August 2007 onwards

Hellenic Mediterranean University (HMU) [ Research & Development ]  
<http://www.teicrete.gr/en>

### European funded projects. Technical Project Manager, Senior Researcher

- IoBee (760342) – Beehive health IoT application to fight Honey Bee Colony Mortality, H2020-FTIPilot-2016-1, 1,834,351 (total cost), 1,436,178 (EC), HMU 301,510 Euros. 1/11/2017-31/04/2020.
- REMOSIS (691131) – A novel smart trap station as an Internet of Things surveillance solution to remotely count and identify the species of disease-carrying mosquitoes, H2020-FTIPilot-2015-1, 1,598,836 (total cost), 1,193,873(EC), TEIC 248,958 Euros. 1/02/2016-31/01/2018.
- ENTOMATIC - Novel automatic and stand-alone integrated pest management tool for remote count and bioacoustic identification of the Olive Fly (*Bactrocera oleae*) in the field, FP7-SME-605073, (2014-2017), (total cost) 3,042,970 Euros, TEIC 616,122 Euros.
- AMIBIO – Automatic Monitoring of Biodiversity (1/2/2010-30/6/2013), FP7 Life+. (total cost) 1,684,000 Euros, TEIC 300,000 Euros.
- PROMETHEUS - Prediction and interpretation of human behaviour based on probabilistic structures and heterogeneous sensors (2007-2010), ICT Call 1, FP7-ICT-2007-1. (total cost) 2,150,000 Euros, TEIC 70,000 Euros.
- Bio-ecological and molecular study of Red palm weevil *Rhynchophorus ferrugineus* and palm borer *Paysandisia archon* and their integrated management”, Research Promotion Foundation of Cyprus. The project got the first position (Grade 8.67/10), in the Action “Natural Environment” and Thematic Area “Terrestrial Ecosystems”, (total cost) 100,000 Euros, TEIC 8,395 Euros.

### Domestic Projects

- «ΕΡΕΥΝΩ – ΔΗΜΙΟΥΡΓΩ – ΚΑΙΝΟΤΟΜΩ, Β-ΚΥΚΛΟΣ» (ΕΣΠΑ 2014-2020) Τ2ΕΔΚ-00431 Development of novel technologies for monitoring viral diseases-vectors of citrus and evaluation of defense mechanism activation by commercial products 1/2/2020-. (total cost) 736,083,10 E, HMU 80,000 Eur.
- Bioacoustic surveillance in Crete of the palm pest *Rhynchophorus ferrugineus*” (2007-2010), Itanos-Crete, Greece. TEIC 50,000 Euros.
- “A distributed environment for live music performance - DIAMOUSES” (2006-2008), GSRT. 638,332 Euros.
- “New techniques for time-frequency analysis as applied to the classification of birds’ vocalizations” (2006-2008), Bilateral cooperation Greece-Mavrovounio. 11,740 Euros.

**OTHER ACADEMIC/RESEARCH  
ACTIVITIES**

1/01/2012-31/8/2012

Head of Department Music Technology & Acoustics  
 CFP Program Committee  
 17TH INTERNATIONAL CONFERENCE ON SPEECH AND COMPUTER SPECOM  
 2015, 20-24 SEPTEMBER, 2015 | GREECE | ATHENS-Greece (<http://specom.nw.ru/>)

**PhD reviewer**

- Andre Holzapfel, currently teaching in KTH Sweden (<https://www.kth.se/profile/holzap>).

**PERSONAL SKILLS  
AND COMPETENCES**

MOTHER TONGUE

OTHER LANGUAGES

**GREEK****ENGLISH** - Proficiency in English Degree – Cambridge University

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user

**FRENCH** - Certificat de Langue Francaise – Institut Francais d' Athenes

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B1	Medium user	B1	Medium user	B1	Medium user	B1	Proficient user	B1	Medium user

**RUSSIAN** - Pushkin State Institute of Russian Language

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
A2	Basic user	A2	Basic user	A2	Basic user	A2	Basic user	A2	Basic user

**TECHNICAL SKILLS  
AND COMPETENCES**

Signal processing, pattern recognition, bioacoustics, deep-learning techniques (Keras, Caffe2, PyTorch), machine learning techniques, data processing, big-data, IoT, soundscapes, monitoring of biodiversity, insects/cetaceans/bird/mice/bats recognition, Bayesian statistics, applied probability, optoacoustic signals, Python, Matlab, HTK.

**ADDITIONAL INFORMATION**

**Military Service**

August 2003 to August 2004

Served army's Telecommunications.

**References**

Supplied on request.

**Driving License**

Category B driving license

## PUBLICATIONS

## Journal Papers

- [1] Saradopoulos, I.; Potamitis, I.; Ntalampiras, S.; Konstantaras, A.I.; Antonidakis, E.N. Edge Computing for Vision-Based, Urban-Insects Traps in the Context of Smart Cities. *Sensors* 2022, 22, 2006. <https://doi.org/10.3390/s22052006>
- [2] Ntalampiras, S., Potamitis, I. Few-shot learning for modeling cyber physical systems in non-stationary environments. *Neural Comput & Applic* (2022). <https://doi.org/10.1007/s00521-022-07903-0>, Oct. 2022
- [3] Hassall Kirsty, Dye Alex, Potamitis Ilyas, Bell James. Resolving the identification of weak-flying insects during flight: a coupling between rigorous data processing and biology, *Agricultural and Forest Entomology*, Royal Entomological Society Journal, May 2021.
- [4] Iraklis I. Rigakis, Kiki N. Varikou, Antonis E. Nikolakakis, Zacharias D. Skarakis, Nikolaos A. Tatlas, Ilyas G. Potamitis, The e-funnel trap: Automatic monitoring of lepidoptera; a case study of tomato leaf miner, *Computers and Electronics in Agriculture*, Volume 185, 2021, 106154, ISSN 0168-1699, <https://doi.org/10.1016/j.compag.2021.106154>.
- [5] Rigakis, I.; Potamitis, I.; Tatlas, N.-A.; Potirakis, S.M.; Ntalampiras, S. TreeVibes: Modern Tools for Global Monitoring of Trees for Borers. *Smart Cities* 2021, 4, 271-285. <https://doi.org/10.3390/smartcities4010017>
- [6] Ntalampiras, S., Potamitis, I. Acoustic detection of unknown bird species and individuals, *Transactions of Intelligence Technology*, Wiley, <https://ietresearch.onlinelibrary.wiley.com/doi/full/10.1049/cit2.12007>, March 2021.
- [7] Ntalampiras, S., Potamitis, I. Automatic acoustic identification of respiratory diseases. *Evolving Systems An Interdisciplinary Journal for Advanced Science and Technology* (2020), pp. 1-9, Springer, <https://link.springer.com/article/10.1007/s12530-020-09339-0>
- [8] Ntalampiras, S. and Potamitis I. "A Concept Drift-Aware DAG-Based Classification Scheme for Acoustic Monitoring of Farms." *IJERTCS* 11.1 (2020): 62-75, 13 May. 2020. doi:10.4018/IJERTCS.2020010104
- [9] S. Ntalampiras and I. Potamitis, "A Statistical Inference Framework for Understanding Music-Related Brain Activity," in *IEEE Journal of Selected Topics in Signal Processing*. doi: 10.1109/JSTSP.2019.2905431, 2019.
- [10] E. Chrysocheris, I. Rigakis, I. Potamitis, E. Papakitsos, A Low Power Internet of Things (IoT) Communication System for Agricultural Applications, DOI: 10.31058/j.as.2019.33001, PP: 34-48, Pub.Date: Dec 10, 2019
- [11] Rigakis, I.; Potamitis, I.; Tatlas, N.-A.; Livadaras, I.; Ntalampiras, S. A Multispectral Backscattered Light Recorder of Insects' Wingbeats. *Electronics* 2019, 8, 277.
- [12] Potamitis, I.; Rigakis, I.; Tatlas, N.-A.; Potirakis, S. In-Vivo Vibroacoustic Surveillance of Trees in the Context of the IoT. *Sensors* 2019, 19, 1366.
- [13] Ntalampiras, S.; Potamitis, I. Transfer Learning for Improved Audio-Based Human Activity Recognition. *Biosensors* 2018, 8, 60.
- [14] Eliopoulos, P.; Tatlas, N.-A.; Rigakis, I.; Potamitis, I. A "Smart" Trap Device for Detection of Crawling Insects and Other Arthropods in Urban Environments. *Electronics* 2018, 7, 161.
- [15] I. Potamitis, I. Rigakis, N. Vidakis, M. Petousis, and Michael Weber, "Affordable Bimodal Optical Sensors to Spread the Use of Automated Insect Monitoring," *Journal of Sensors*, vol. 2018, Article ID 3949415, 25 pages, 2018. <https://doi.org/10.1155/2018/3949415>.
- [16] Potamitis, I.; Eliopoulos, P.; Rigakis, I. Automated Remote Insect Surveillance at a Global Scale and the Internet of Things. *Robotics* 2017, 6, 19.
- [17] P. Psirofonia, V. Samaritakis, P. Eliopoulos, I. Potamitis, Use of Unmanned Aerial Vehicles for Agricultural Applications with emphasis on crop protection: three Novel Case-studies, *International Journal of Agricultural Science and Technology (IJAST)*, 2017.
- [18] I. Potamitis, I. Rigakis, N-A. Tatlas, Automated Surveillance of Fruit Flies. *Sensors* 2017, 17, 110.

- [19] I. Potamitis, I. Rigakis. Large Aperture Optoelectronic Devices to Record and Time-stamp Insects' Wingbeats, *IEEE Sensors Journal*, Volume: 16, Issue: 15, Aug.1, pp. 6053-6061, 2016.
- [20] P. Eliopoulos, I. Potamitis, D. Kontodimas, Estimation of population density of stored grain pests via bioacoustic detection, *Crop Protection*, Volume 85, July 2016, pp. 71-78.
- [21] I. Potamitis, I. Rigakis. Measuring the fundamental frequency and the harmonic properties of the wingbeat of a large number of mosquitoes in flight using 2D optoacoustic sensors, *Applied Acoustics*, 2016, Volume 109, August 2016, Pages 54-60.
- [22] P.A. Eliopoulos, I. Potamitis, D.Ch. Kontodimas, E.G. Givropoulou, Detection of adult beetles inside the stored wheat mass based on their acoustic emissions, *Journal of Economic Entomology*, Aug 2015, DOI: 10.1093/jee/tov231.
- [23] I. Potamitis, I. Rigakis, K. Fysarakis. Insect Biometrics: Optoacoustic signal processing and its applications to remote monitoring of insect traps of the McPhail type, *PLoS ONE* (submitted).
- [24] I. Potamitis, I. Rigakis, " Smart traps for automatic remote monitoring of *Rhynchophorus ferrugineus* (Coleoptera: Curculionidae), *Computers in Agriculture*, 2015 (submitted).
- [25] I. Potamitis, I. Rigakis, "Novel Noise-Robust Optoacoustic Sensors to Identify Insects Through Wingbeats," *IEEE Sensors Journal*, vol.15, no.8, pp. 4621,4631, Aug. 2015, doi: 10.1109/JSEN.2015.2424924
- [26] I. Potamitis, I. Rigakis, K. Fysarakis. The Electronic McPhail Trap. *Sensors* 2014, 14, 22285-22299
- [27] I. Potamitis, S. Ntalampiras, O. Jahn, K. Riede, Automatic bird sound detection in long real-field recordings: Applications and tools, *Applied Acoustics*, Volume 80, 2014, pp. 1-9, ISSN 0003-682X, <http://dx.doi.org/10.1016/j.apacoust.2014.01.001>.
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- [29] I. Potamitis (2014) Automatic Classification of a Taxon-Rich Community Recorded in the Wild. *PLoS ONE* 9(5): e96936. doi:10.1371/journal.pone.0096936
- [30] S. Ntalampiras, I. Potamitis, and N. Fakotakis, "Acoustic detection of human activities in natural environments", *Journal of the Audio Engineering Society*, 2012.
- [31] S. Ntalampiras, I. Potamitis, and N. Fakotakis, "Probabilistic novelty detection for acoustic surveillance under real-world conditions", *IEEE Transactions on Multimedia*, Vol. 13, No. 4, August 2011.
- [32] S. Ntalampiras, I. Potamitis, and N. Fakotakis, "Practical system for acoustic surveillance of hazardous situations", *International Journal of Artificial Intelligence Tolls (IJAIT)*, Vol. No.20, Issue No. 1, pp. 119-137, 2011.
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- [36] T. Ganchev, I. Potamitis, "Automatic Acoustic Identification of Singing Insects", *Bioacoustics*, Vol. 16, pp. 281-327, 2007.
- [37] I. Potamitis et al., "Speech Separation of Multiple Moving Speakers Using Multi-Sensor Multi-Target Techniques", *IEEE Transactions on Systems Man and Cybernetics – A*, Vol. 37, Issue: 1, pp. 72-81, Jan. 2007.
- [38] T. Giannakopoulos, N.A. Tatlas, T. Ganchev, I. Potamitis, "A Practical, Real-Time Speech-Driven Home Automation Front-end", *IEEE Transactions on Consumer Electronics*, Vol. 51, No. 2, pp. 514-523, May 2005.

- [39] I. Potamitis, H. Chen, G. Tremoulis, "Tracking of Multiple Moving Speakers with Multiple Microphone Arrays", *IEEE Transactions on Speech and Audio Processing*, Vol. 12, No. 5, pp. 520-529, September 2004.
- [40] I. Potamitis, E. Fishler, "Speech Activity Detection and Enhancement of a Moving Speaker Based on the Wideband Generalized Likelihood Ratio and Microphone Arrays", *Journal of the Acoustical Society of America*, Vol. 116, No. 4, Pt. 1, pp. 2406-2415, October 2004.
- [41] I. Potamitis, "Estimation of Speech Presence Probability in the field of Microphone Array", *IEEE Signal Processing Letters*, Vol. 11, No. 12, pp. 956-959, December 2004.
- [42] T. Ganchev, I. Potamitis, N. Fakotakis, G. Kokkinakis, "Text-Independent Speaker Verification for Real, Fast-Varying Noisy Environments", *International Journal of Speech Technology*, Kluwer Academic Publishers, 7 (4), pp. 281-292, October 2004.
- [43] I. Potamitis, P. Zervas, N. Fakotakis, "Wideband DOA estimation using complex independent component analysis", *International Transaction on Speech Science and Engineering*, Vol. 1, No. 2, pp. 30-39, December 2004.
- [44] I. Potamitis, N. Fakotakis, G. Kokkinakis, "Speech Enhancement using Band-dependent Spectral Estimators", *Transactions on Information and Systems, IEICE*, Vol. E86-D, No.5, pp. 937-946, May 2003.
- [45] I. Potamitis, N. Fakotakis, G. Kokkinakis, "Independent Component Analysis Applied to Feature Extraction for Robust Automatic Speech Recognition", *Electronics Letters, an International Publication, IEE*, Vol. 36, No. 23, pp. 1977-1978, Nov. 2000.
- [46] I. Potamitis, N. Fakotakis, G. Kokkinakis, "Robust Automatic Speech Recognition in the Presence of Impulsive Noise", *Electronics Letters, an International Publication, IEE*, Vol. 37, No. 12, pp. 799-800, June 2001.
- [47] I. Potamitis, E. Fishler, "Speech Activity Detection of a Moving Speaker Using Microphone Arrays", *Electronics Letters, an International Publication, IEE*, Vol. 39, No. 16, pp. 1223-1225, August 2003.
- [48] I. Potamitis, "Autoregressive Time-Frequency Interpolation for Robust Speech Recognition in the Context of Impulsive Noise", *Signal Processing and Pattern Recognition, A.M.S.E. Periodicals*, Vol. 46, No. 3, pp. 37-48, 2003.
- [49] I. Potamitis, N. Fakotakis, N. Liolios, "Speech Enhancement Based on Combining Perceptual Enhancement and Short-Time Spectral attenuation", *Signal Processing and Pattern Recognition, A.M.S.E. Periodicals*, Vol. 46, No. 7, pp. 53-65, 2003.
- [50] T. Ganchev, I. Potamitis, N. Fakotakis, G. Kokkinakis, "A Model Based Approach for robust text-independent Speaker Verification in adverse Environments", *Signal Processing and Pattern Recognition, A.M.S.E. Periodicals*, Vol. 47 no. 3, pp. 47-66, 2004.

#### Conference Papers

- [51] I. Potamitis, N. Fakotakis, G. Kokkinakis, "Improving the Robustness of Noisy MFCC Features Using Minimal Recurrent Neural Networks", *IJCNN, the IEEE-INNS-ENNS International Joint Conference on Neural Networks*, Vol. 1, pp. 271-278, Como, Italy, July 24-27, 2000.
- [52] I. Potamitis, N. Fakotakis, G. Kokkinakis "Impulsive Noise Removal using Neural Networks", *ICASSP, IEEE International Conference on Acoustic, Speech and Signal Processing*, Vol. 3, pp. 1871-1874, Istanbul, Turkey, May 5-9, 2000.
- [53] I. Potamitis, N. Fakotakis and G. Kokkinakis, "Minimal Recurrent Neural Nets as Applied to the Problem of Car Noise", *EURONOISE, 4th European Conference on Noise Control*, Vol. 1, pp. 514-525, Patras, Greece, Jan. 14-17, 2001.
- [54] I. Potamitis, N. Fakotakis and G. Kokkinakis, "Independent Component Analysis Applied to Speech Denoising", *EURONOISE, 4th European Conference on Noise Control*, Vol. 1, pp. 466-478, Patras, Greece, Jan. 14-17, 2001.

- [55] I. Potamitis, N. Fakotakis and G. Kokkinakis, "Speech Enhancement using the Sparse Code Shrinkage Technique", ICASSP, IEEE International Conference on Acoustic Speech and Signal Processing, Vol. 1, pp. 621-624, Salt Lake City, Utah, USA, May 7-11, 2001.
- [56] I. Potamitis, N. Fakotakis, G. Kokkinakis, "Spectral and Cepstral Projection Bases Constructed by Independent Component Analysis", ICSLP, 6th International Conference on Spoken Language Processing, Vol. III, pp. 63-66, Beijing, China, Oct. 16-20, 2000.
- [57] I. Potamitis, N. Fakotakis, G. Kokkinakis, "Reliable ASR based on Unreliable Features", ASR, Automatic Speech Recognition: Challenges for the New Millennium, Vol.1, pp. 53-57, Paris, France, Sept. 18-20, 2000.
- [58] I. Potamitis, N. Fakotakis, G. Kokkinakis, "Bayesian factor analysis as applied to speech enhancement", ASME International, First National Conference on Recent Advances in Mechanical Engineering, Patras, Greece, Sept. 17-20, 2001.
- [59] I. Potamitis, N. Fakotakis, G. Kokkinakis, "Impulsive noise suppression in the context of automatic speech recognition", ASME International, First National Conference on Recent Advances in Mechanical Engineering, Patras, Greece, Sept. 17-20, 2001.
- [60] I. Potamitis, N. Fakotakis, G. Kokkinakis, "Car-noise compensation using neural networks", ASME International, First National Conference on Recent Advances in Mechanical Engineering, Patras, Greece, Sept. 17-20, 2001.
- [61] I. Potamitis, N. Fakotakis, G. Kokkinakis, "Map Estimation for On-line Noise Compensation of Time Trajectories of Spectral Coefficients", EUROSPEECH, 7th European Conference on Speech Communication and Technology, Vol. III, pp. 1899-1902, Aalborg, Denmark, Sept. 3-7, 2001.
- [62] I. Potamitis, N. Fakotakis, G. Kokkinakis, "Autoregressive Time-Frequency Interpolation in the Context of Missing Data Theory for Impulsive Noise Compensation", EUROSPEECH, 7th European Conference on Speech Communication and Technology, Vol. IV, pp. 2475-2478, Aalborg, Denmark, Sept. 3-7, 2001.
- [63] I. Potamitis, N. Fakotakis, G. Kokkinakis, "Feature Extraction with Variable Rate Frequency Sampling for Robust Speech Recognition", SPECOM, Speech and Computer International Workshop, pp. 108-111, Moscow, Russia, Oct. 29-31, 2001.
- [64] I. Potamitis, N. Fakotakis, G. Kokkinakis, "Gender-Dependent and Speaker-Dependent Speech Enhancement", ICASSP, IEEE International Conference on Acoustic Speech and Signal Processing, Vol. I, pp. 249-252, Orlando, Florida, USA, May 7-11, 2002.
- [65] I. Potamitis, N. Fakotakis, G. Kokkinakis, "Model based speech enhancement for time-varying noises", ICPHS, 15th International Congress of Phonetic Sciences, pp. 2197-2200, Barcelona, Spain, August 3-9, 2003.
- [66] T. Ganchev, I. Potamitis, N. Fakotakis, "Noise-source modelling for robust speaker verification in adverse environments", IEEE ISAP, Competitive Environment, Renewable Energy, Distributed Generation, Lemnos, Greece, 31 August-3 September, 2003.
- [67] I. Potamitis, K. Georgila, P. Zervas, N. Fakotakis, G. Kokkinakis, "An electronic assistant for automatic control of home-appliances using natural speech and distant microphones", SPPRA 2003, International Conference on Signal Processing, Pattern Recognition and Applications, pp. 191-195, June 30 - July 2, 2003, Rhodes, Greece.
- [68] P. Zervas, I. Potamitis, N. Fakotakis, G. Kokkinakis, "Fixed-Point DSP Implementation of HVXC encoder/decoder on OakDSPCore platform", SPPRA, International Conference on Signal Processing, Pattern Recognition and Applications, pp. 220-223, June 30 - July 2, 2003, Rhodes, Greece.
- [69] P. Zervas, I. Potamitis, N. Fakotakis, G. Kokkinakis, "HVXC Coder/Decoder Implementation for Mobile Applications", SPECOM, Speech and Computer International Workshop, Moscow, Russia, Oct. 29-31, pp. 162-167, 2003.
- [70] P. Zervas, I. Potamitis, N. Fakotakis, G. Kokkinakis, "A Greek TTS based on Non uniform unit concatenation and the utilization of Festival architecture", First Balkan Conference on Informatics, Thessalonica, Greece, November 21-23, pp. 662-668, 2003.



- [71] I. Potamitis, K. Georgila, N. Fakotakis, G. Kokkinakis, "Towards a User-Friendly Automated Control of Home Appliances based on Speech Recognition and Microphone Arrays", SPECOM, Speech and Computer International Workshop, pp. 226-230, Moscow, Russia, Oct. 29-31, 2003.
- [72] I. Potamitis, G. Tremoulis, N. Fakotakis, "Multi-Speaker DOA Tracking Using Interactive Multiple Models and Data Association Techniques", EUROSPEECH, 8th European Conference on Speech Communication and Technology, September 1-4, 2003, Geneva, Switzerland, Vol. I, pp. 517-520, 2003.
- [73] I. Potamitis, G. Tremoulis, N. Fakotakis, G. Kokkinakis, "Multi-Array fusion for beamforming and localization of moving speakers", EUROSPEECH, 8th European Conference on Speech Communication and Technology, September 1-4, 2003, Geneva, Switzerland, Vol. II, pp. 1721-1724, 2003.
- [74] I. Potamitis, R. Georgilla, N. Fakotakis, G. Kokkinakis, "An integrated system for smart-home control of appliances based on remote speech interaction", EUROSPEECH, 8th European Conference on Speech Communication and Technology, September 1-4, 2003, Geneva, Switzerland, Vol. III, pp. 2197-2200, 2003.
- [75] I. Potamitis, N. Fakotakis, G. Kokkinakis, "A Trainable Speech Enhancement Technique Based on Mixture Models for Speech and Noise", EUROSPEECH, 8th European Conference on Speech Communication and Technology, September 1-4, 2003, Geneva, Switzerland, Vol. I, pp. 573-576, 2003.
- [76] I. Potamitis, E. Fishler, "Microphone Array Voice Activity Detection and Noise Suppression using Wideband Generalized Likelihood Ratio", EUROSPEECH, 8th European Conference on Speech Communication and Technology, September 1-4, 2003, Geneva, Switzerland, Vol. I, pp. 525-529, 2003.
- [77] S. Möller, J. Krebber, A. Raake, P. Smeele, M. Rajman, M. Melichar, G. Tsakou, B. Kladis, A. Vovos, J. Hoonhout, D. Schuchardt, N. Fakotakis, I. Potamitis, "INSPIRE: Evaluation of a Smart-Home System for Infotainment Management and Device Control", LREC, Language Resources and Evaluation conference, Lisbon, Portugal, vol. V., pp. 1603-1607, May 2004.
- [78] I. Potamitis, N. Fakotakis, "Tracking and Voice Separation of Moving Speakers based on IMM-PDA filters", FUSION, 7th International Conference on Information Fusion, Stockholm, Sweden, pp. 442-448, 2004.
- [79] I. Potamitis, P. Zervas, N. Fakotakis, "Voice separation of overlapping speech using tracking techniques and the gating process", EUSIPCO, 12th European Signal Processing Conference, September 7-10, 2004, Vienna, Austria, pp. 1119-1122, 2004.
- [80] I. Potamitis, P. Zervas, N. Fakotakis, "DOA estimation of speech signals using semi-blind source separation techniques", ICSLP, 8th International Conference on Spoken Language Processing, vol. IV, pp. 2857-2860, Beijing, Jeju Island, Korea, Oct. 4-8, 2004.
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