

**Athanasios Koutras, PhD**

Electrical & Computer Engineer

Assistant Professor

Electrical & Computer Engineering Department, University of Peloponnese

*Last updated: April 2020*

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## 1. PERSONAL DATA

<b>NAME:</b>	Athanasios Koutras
<b>FATHER'S NAME:</b>	Konstantinos
<b>DATE OF BIRTH</b>	11 November 1973
<b>PLACE OF BIRTH</b>	Athens, Greece
<b>NATIONALITY:</b>	Greek
<b>MARITAL STATUS:</b>	Married, 2 children
<b>POSITION:</b>	Assistant Professor, Department of Electrical & Computer Engineering, University of Peloponnese
<b>ADDRESS:</b>	Department of Electrical & Computer Engineering, University of Peloponnese M. Alexandrou 1, 26334 Patras, Greece
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## 2. ACADEMIC STUDIES

- **Doctor of Philosophy (PhD)**, Department of Electrical & Computer Engineering, Polytechnic School of Patras, University of Patras, Greece (2002).  
PhD Thesis title: «Blind separation and speech recognition in a multi-simultaneous speaker environment»  
Research area: Digital Signal Processing, Digital Sound Processing, Speech Recognition.  
Academic Supervisors: Prof. George Kokkinakis, Assoc. Prof. Evaggelos Dermatas.
- **Diploma**, Department of Electrical & Computer Engineering, Polytechnic School of Patras, University of Patras (1996).  
Diploma thesis title: «POLYMNIA: Design and implementation of a tele-education system», Wired Communications Lab, Department of Electrical & Computer Engineering, University of Patras, Greece.

### 3. BRIEF BIOGRAPH

Athanasios Konstantinos Koutras was born in Athens, Greece, on November 11, 1973.

In September 1991 he enrolled in the Department of Electrical Engineering (later renamed Electrical and Computer Engineering) of the Polytechnic School of the University of Patras after Panhellenic examinations. He completed his diploma thesis at the Wired Telecommunications Laboratory titled "POLYMNIA: Developing a Tele-Education System" with supervisor Professor M. Koukias, in September 1996. In September 1996 he was awarded the Diploma of Electrical and Computer Engineering at the Polytechnic School of the University of Patras.

In March 1997 he began his doctoral thesis, at the Wired Telecommunications Laboratory, Department of Electrical and Computer Engineering at the Polytechnic School of the University of Patras. The title of his doctoral dissertation is: "Blind Separation and Recognition of Speech in a multi-simultaneous speaker environment" and Supervisor Professor Kokkinakis George.

His doctoral dissertation was successfully defended in December 2001, when he was awarded the title of Doctor of Philosophy of the Department of Electrical and Computer Engineering at the Polytechnic School of the University of Patras.

During his Ph.D. dissertation preparation (March 1997 - December 2001) Mr. Koutras participated in several Research & Development Programs, funded by the European Union as well as Hellenic Organizations. During the same period, he worked as a teaching assistant at the WTT (undergraduate faculty) in undergraduate courses of general and special subjects. During this period, he also supervised more than 10 undergraduate courses, which were successfully completed.

Athanasios Koutras served his military service from May 2002 to July 2003 as a Specialist Scientist in the Greek Army, in the Research and Informatics Corps, with Specialty "Computer Programmer" and the subject of Information Systems Management and Systems Support in War Gaming Simulations. During his service, he was placed at the Hellenic Army Corps Headquarters in Xanthi, Greece, and the Hellenic Army Support Center (KEYPES) of the Ministry of National Defense in Pentagon, Athens.

After completing his military service, he worked as a postdoctoral researcher at the Wired Telecommunications Laboratory of the Department of Electrical & Computer Engineering of the University of Patras, and Professor Nikolaos Fakotakis since May 2003 on the management, development and design of software within the framework of research and development projects funded by the European Union until the end of January of 2004.

At the same time, 2003-2004 he started his collaboration with the Technological Educational Institute of Patras as an Adjunct member of the Department of Civil Works of Infrastructure, in which he remained as a Laboratory Associate until the year 2004-2005. Since the beginning of the ac. 2003-2004 he has worked as a Lab Associate and later as a Scientific Associate at the Department of Informatics and Mass Media of the TEI of Patras in Pyrgos, in year 2007-2008.

From the ac. 2006-2007 up to the year 2007-2008 he has also worked as a full-time lecturer in courses in the field of Digital Image, Audio and Video Processing at the Department of Management of Cultural Environment and New Technologies of the University of Ioannina at Agrinio .

From January 2004 to December 2006, he has worked as a Postdoctoral researcher at the Medical School, the Physiology Laboratory, at the Neurophysiology Unit and Prof. G. Kostopoulos in various research projects, studying the human brain functionality using non-invasive techniques and digital signal processing methodologies, funded by the RIKEN Institute in Japan. In addition, from January 2007 until May 2007 he was a member of the research team of Applied Neurosciences of the Medical Informatics Laboratory of the Medical School of the Aristotle University of Thessaloniki in research projects funded by the European Union.

From the ac. year 2004-2005 until the academic year 2011-2012 he participated in the Interdisciplinary Program of Postgraduate Studies (ICS) "Life Sciences Informatics" as an invited Lecturer and Coordinator of the course "Digital Signal and Image Processing for the Combined Study of Structure and Functioning of the Human Brain", of the Neuroinformatics course. Also from the ac. year 2012-2013 up to and including 2014-2015 he was also an invited lecturer of the "Neuroinformatics II" course of the same MSc Programme.

In March 2008 he was elected Assistant Professor of the Department of Informatics and Media of the TEI of Patras in Pyrgos, where he worked until October 2018. During his tenure at the Department of Informatics and Media, Mr. Koutras was Deputy Head of the Department (initially) and from 2009-2014 and from 2015-2017 Head of the Department. From November 2018 until May 2019 he was a member of the Academic Staff of the Department of Computer Informatics Engineering of the Technical Educational Institute of Western Greece in Nafpaktos. From May 2019 until today, he is a member of the Academic Staff of the Department of Electrical and Computer Engineering of the University of Peloponnese.

Since 2008, until now he has been teaching courses in the area of Digital Audio Processing, Digital Image Processing, Digital Signal Processing, Audiovisual Production, Multimedia Applications Production and other in the area of Information Technology. Additionally, he has supervised more than 160 completed graduate theses.

Since the spring semester of the academic year 2018-2019, he has been appointed the courses: (a) BIOMEDICAL SIGNAL PROCESSING and (b) MEDICAL IMAGING in the Postgraduate Program BIOMEDICAL ENGINEERING of the Department of Electrical and Computer Engineering of the University of Patras.

A. Koutras is a member of the research team of the Physiology Laboratory at the Department of Neurophysiology of the Medical School of the University of Patras, led by Professor G. Kostopoulos. He has also been assigned the supervision of seven diploma theses of the "Life Sciences Informatics" Master's Programme in the area of his expertise (five of them already completed). Until now he has been a member of the advisory committee in two (2) doctoral theses (one completed) in the Medical School of Patras, and member of the examination committee in two (2) more doctoral theses in the same Department.

Mr. Koutras is also a member of the Pattern Recognition Group, in the Department of Electrical and Computer Engineering of the Polytechnic School of the University of Patras, led by Assist. Professor Evangelos Dermatas, where he has also supervised a number of undergraduate diploma theses in the subject of Digital Signal and Image Processing.

Finally, Mr. Koutras is a member of the research team of the Tourism Management Department of the University of Patras and the Research Laboratory of Information Systems and Forecasting in Tourism led by Professor Alkiviadis Panagopoulos, working in the field of tourism data time series analysis, development of stochastic and computational forecasting models and application of data processing techniques in tourism data time series.

From the start of 2020, he has formed the Signal, Image Processing and Pattern Recognition Research Group (SIPPRE) at the University of Peloponnese, Department of Electrical & Computer Engineering. Although new, SIPPRE has already managed to bring together a number of great value academics from universities and research centers, Post Doc researchers, PhD Students as well as graduate students, in a collaborative workspace, where they can produce high quality research in the field of digital signal processing and pattern recognition.

A. Koutras has been the Institutional Responsible for the Innovation and Entrepreneurship Unit, implemented under the Operational Program "Education and Lifelong Learning" and co-funded by the European Union (European Social Fund - ESF) and national funds organized and implemented by the TEI of Patras. In addition from 2013, until October 2018 he was the Erasmus Coordinator of the Department of Informatics and Mass Media.

He is the author of a number of research papers on international scientific journals, book chapters and international conference proceedings in scientific areas of his expertise. His published work has been cited in more than 300 scientific papers published in journals and international conferences (google scholar).

He is also a member of the Technical Chamber of Greece, IEEE, the European Neural Network Society (ENNS) and the International Speech Communication Association (ISCA).

#### 4. FOREIGN LANGUAGES

##### ENGLISH

Certificate of Proficiency in English (CPE) University of Cambridge.

Certificate of Proficiency in English (CPE) University of Michigan.

##### DEUTSCH

Zertifikat Deutsch als Fremdsprache (ZdaF), Goethe Institut.

#### 5. RESEARCH INTERESTS

- Digital sound processing and analysis
- Digital image processing and analysis.
- Blind source and speech separation.
- Biomedical signal processing and analysis
- Computer Aided Diagnosis Systems.
- EEG/MEG brain signal analysis.
- Pattern Recognition.

- Machine Learning
- Deep Learning, Artificial Neural Networks.
- Music information retrieval
- Emotion recognition
- Time-series forecasting

## 6. TEACHING EXPERIENCE

- Assistant Professor, Department of Electrical & Computer Engineering, School of Engineering, University of Peloponnese (current position)
- Assistant Professor Department of Computer Informatics Engineering, TEI of Western Greece (November 2018 - May 2019)
- Assistant Professor Department of Informatics and Mass Media, TEI of Western Greece (2008 – 2018)
- Adjunct Professor, Department of Cultural Environment Management and New Technologies, University of Ioannina (2006 - 2008), Master's Programme
- Visiting Lecturer, Medical School, University of Patras, Greece (2004 – 2015).
- Visiting Lecturer, Department of Electrical & Computer Engineering, University of Patras, Greece (2019), Master's Programme

### Graduate level courses:

- Digital Image, Sound, Video and Text technology,
- Digital Signal Processing
- Digital Sound Processing,
- Digital Image Processing
- Computer Graphics
- Advance topics in Computer Graphics
- Web programming
- Audio-Visual Production
- Multimedia production,
- Computer Programming
- Databases
- Educational Multimedia Systems.

### Post Graduate level courses:

- BIOMEDICAL SIGNAL PROCESSING, Master's Programme BIOMEDICAL ENGINEERING, Department of Electrical & Computer Engineering, University of Patras, Greece
- MEDICAL IMAGING, Master's Programme BIOMEDICAL ENGINEERING, Department of Electrical & Computer Engineering, University of Patras, Greece .
- NEUROINFORMATICS I & II, Master's Programme INFORMATICS IN LIFE SCIENCES, Medical School, University of Patras, Greece
- DIGITAL SIGNAL AND IMAGE PROCESSING FOR COMBINED STUDY OF HUMAN BRAIN DYNAMICS, Master's Programme INFORMATICS IN LIFE SCIENCES, Medical School, University of Patras, Greece

## 7. R&D PROJECTS

- ARCHIMEDES III, Predicting tourist demand in the Western Region of Greece, Department of Tourism Management, TEI of Western Greece
- HRAKLEITOS II, Studying human brain rhythmical activity during sleep and epileptically syndroms, Medical School of Patras, University of Patras.
- Innovation & Entrepreneurship Unit, TEI of Western Greece
- Advancing medical education in IT and social medicine using multimedia and web technologies, Department of Medicine, Aristotle University of Thessaloniki.
- Studying human emotions using brain signal analysis, Department of Medicine, Aristotle University of Thessaloniki.
- “EEG/MEG Combination: Theory, practical limits and implications for locating brain source generators”, Medical School, University of Patras & RIKEN Brain Science Institute Japan.
- Noninvasive source localization using human brain signal analysis, Medical School, University of Patras & RIKEN Brain Science Institute Japan.
- “INSPIRE: Infotainment management with speech interaction via Remote-microphones and telephone interfaces”, Department of Electrical & Computer Engineering, University of Patras
- Advance method development for critical decision making in complex systems: Application to medical problems, Department of Electrical & Computer Engineering, University of Patras
- KORAI5 A novel electronic dictionary 100.000 lemas, Department of Electrical & Computer Engineering, University of Patras
- “Electronic Dictionary of pronunciation and usage of the Grecanic Dialect of South Italy”, Department of Electrical & Computer Engineering, University of Patras
- ACCeSS, Department of Electrical & Computer Engineering, University of Patras

## 8. ADMINISTRATIVE POSITIONS

- Head of the Department of Informatics and Mass Media (2015-2017)
- Member of the Board, School of Business Administration and Economy, TEI of Western Greece (2015-2017)
- Member of the Senate, TEI of Western Greece (2015-2017)
- Head of the Department of Informatics and Mass Media (2010-2014)
- Member of the Board, School of Business Administration and Economy, TEI of Western Greece (2013-2014)
- Deputy Head of the Informatics and Mass Media Department, TEI of Western Greece (2009)
- Deputy Head of the Mouseiology, Mouseiography and Exhibition Design Department, TEI of Western Greece (2009-2013)

- Member of the Board, Tourism Administration Department, TEI of Western Greece (2016-2018)
- Member of the Research Committee of TEI Patras (2009-2013)
- Member of the Research Committee of TEI Western Greece (2008-2018)
- Member of the Board, Department of Computer Informatics Engineering, TEI of Western Greece (2018-2019)
- Member of the Board, Department of Electrical & Computer Engineering, Engineering School, University of Peloponnese (2019-today)
- Erasmus Coordinator, Department of Informatics and Mass Media, TEI of Western Greece (2013-2018)

#### Summer School (co) Organizer

- Co-organizer of «ATHENA», 2011, 2012 Summer Schools, Pyrgos, Greece

### 9. REVIEWER IN JOURNALS

1. Journal of Health and Technology, Springer
2. IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS
3. International Journal of Advanced Computer Science and Applications, The Science and Information (SAI) Organization
4. International Journal of Advanced Research in Artificial Intelligence, The Science and Information (SAI) Organization
5. IEE Electronics Letters
6. Medical and Biological Engineering and Computing, Springer
7. Health and Technology, Springer

### 10. EDITOR IN JOURNALS

1. Advances in Signal Processing, Horizon Research Publishing Corporation, Editor in Chief

### 11. EDITOR / CHAIRPERSON IN INTERNATIONAL CONFERENCES

- 21st International Conference on Engineering Applications of Neural Networks (EANN), 2020
- 16<sup>th</sup> International Conference on Artificial Intelligence Applications and Innovations (AIAI), 2020
- 28<sup>th</sup> International Conference on Artificial Neural Networks (ICANN), 2019
- 27<sup>th</sup> International Conference on Artificial Neural Networks (ICANN), 2018
- Conference IACuDIT, Cultural Tourism in a Digital Era, 2014-2017
- 5<sup>th</sup> International Symposium on Communication Systems, Networks and Digital Signal Processing, Patras, Greece, 2006
- 13th World Multi-Conference on Systemics, Cybernetics and Informatics, Orlando, Florida, USA, 2009
- 12th World Multi-Conference on Systemics, Cybernetics and Informatics, Orlando, Florida, USA, 2008
- 11th World Multi-Conference on Systemics, Cybernetics and Informatics, Orlando, Florida, USA, 2007
- 10th World Multi-Conference on Systemics, Cybernetics and Informatics, Orlando, Florida, USA, 2006



- 9th World Multi-Conference on Systemics, Cybernetics and Informatics, Orlando, Florida, USA, 2005
- International Conference on Computing, Communications and Control Technologies, Austin, Texas, USA, 2005
- IEEE 2005 Workshop on Signal Processing Systems (SIPS'05), Athens, Greece, November 2005
- 8th World Multi-Conference on Systemics, Cybernetics and Informatics, Orlando, Florida, USA, 2004
- International Conference on Computing, Communications and Control Technologies, Austin, Texas, USA, 2004
- 14<sup>th</sup> International Conference on Digital Signal Processing, Santorini, Greece, 2002
- 4<sup>th</sup> World Multiconference on Circuits, Systems, Communications & Computers, Athens, Greece, 2000.

#### Chairperson in the following international Conferences:

- 27<sup>th</sup> International Conference on Artificial Neural Networks (ICANN), Rhodes, Greece, 2018. Session title: "Recurrent Neural Networks"
- 14<sup>th</sup> International Conference on Digital Signal Processing, Santorini, Greece, 2002. Session title: "DSP in Communication II"

## 12. MEMBERSHIPS

- Member of IEEE. 2007 - today
- Member of European Neural Network Society (ENNS). 2001 - today
- Member of International Speech Communication Association (ISCA). 1997 - today
- Technical Chamber of Greece, (TEE). February 1997 - today

## 13. SPECIALIZED SKILLS

1. MATLAB / SIMULINK
2. Perl
3. Python
4. Deep Learning (Tensorflow, Keras)
5. OpenGL / OpenCV
6. Game Design using UNITY
7. NLE - Digital Video Editing Adobe Premier, Adobe After Effects
8. DAW – Adobe Audition
9. Linux

## 14. LIST OF PUBLICATIONS

### Theses (in Greek)

- [Δ1] **A. Κούτρας**, «Διαχωρισμός και Αναγνώριση Ομιλίας σε Περιβάλλον Πολλαπλών Ομιλιών», Διδακτορική Διατριβή, Πανεπιστήμιο Πατρών, Τμήμα Ηλεκτρολόγων Μηχανικών και Τεχνολογίες Υπολογιστών, 2002
- [Δ2] **A. Κούτρας**, Ι. Χριστογιάννη, Η. Αθανασάκης, «ΠΟΛΥΜΝΙΑ: Ανάπτυξη Συστήματος Τηλε-εκπαίδευσης», Διπλωματική Εργασία, Πανεπιστήμιο Πατρών, Τμήμα Ηλεκτρολόγων Μηχανικών και Τεχνολογίας Υπολογιστών, 1996

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**International Journal publications**

- [J1] **A. Koutras**, A. Panagopoulos, I. Nikas, "Forecasting Tourism Demand Using Linear and Nonlinear Prediction Models", *Academica Turistica*, Vol 9, no 1, pp. 85-98, 2016.
- [J2] **A. Koutras**, G.K. Kostopoulos and A.I. Ioannides, "Exploring the variability of Single Trials in Somatosensory Evoked Responses Using Constrained Source Extraction and Random Matrix Theory", *IEEE Trans. on Biomedical Signal Processing*, Vol 55, no 3, pp 957-969, 2008.
- [J3] **A. Koutras**, E. Dermatas and G. Kokkinakis: "Blind speech separation of non-linear convolutive mixtures for robust speech recognition", *International Journal of Control and Intelligent Systems*, ACTA Press, Vol 30, no 2, pp. 83-90, 2002.
- [J4] Christoyianni, **A. Koutras**, E. Dermatas, G. Kokkinakis, "Computer Aided Diagnosis of breast cancer in digitized mammograms", *Computerized Medical Imaging and Graphics*, Elsevier, Vol 26, no 5, pp. 309-319, 2002.
- [J5] A. Koutras, E. Dermatas: "Blind Speech separation for solving the cocktail party problem in real room environments", *Journal of Information Technology and Multimedia Systems (Info-M Journal) – επιλεγμένη εργασία από επιτροπή συνεδρίου για μετάφραση και δημοσίευση σε τοπικό περιοδικό -*, Vol. 1(2), pp. 29-32, 2002
- [J6] **A. Koutras**, E. Dermatas and G. Kokkinakis: "Blind separation of speakers in noisy environments: A neural network approach", *Neural Network World Journal*, Vol 10, No 4, pp. 619-630, 2000.

**Articles in Books publications**

- [B1] **Koutras A.**, Kostopoulos G. K., "EEG-based Person Identification Using Rhythmic Brain Activity During Sleep". Kúrková, V., Manolopoulos, Y., Hammer, B., Iliadis, L., Maglogiannis, I. (Eds.) *ICANN 2018. Lecture Notes in Computer Science*, vol 11139-11141, pp. 682-692, Springer, (2018)
- [B2] **Koutras A.**, Panagopoulos A., Nikas I.A., "Towards developing smart cities: Evidence from GIS analysis on tourist's behavior using social network data in the city of Athens", Katsoni V., Stratigea A. (eds) *Tourism and Culture in the Age of Innovation. Springer Proceedings in Business and Economics*, pp.XX-XX (to be published), Springer, Cham, (2018)
- [B3] **Koutras A.**, "Song Emotion Recognition Using Music Genre Information", Karpov A., Potapova R., Mporas I. (eds) *Speech and Computer. SPECOM 2017. Lecture Notes in Computer Science*, vol 10458, pp. 669-679, Springer, Cham, (2017)
- [B4] **Koutras A.**, Panagopoulos A., Nikas I.A., "Predicting Tourism Demand in the Western Greece Region Using Independent Component Analysis", Katsoni V., Stratigea A. (eds) *Tourism and Culture in the Age of Innovation. Springer Proceedings in Business and Economics*, pp.361-375, Springer, Cham, (2016)
- [B5] **Koutras A.**, Panagopoulos A., Nikas I.A., "Evaluating the Performance of Linear and Nonlinear Models in Forecasting Tourist Occupancy in the Region of Western Greece", Katsoni V., Stratigea A. (eds) *Tourism and Culture in the Age of Innovation. Springer Proceedings in Business and Economics*, Springer, pp. 377-391, Cham, (2016)
- [B6] Apostolopoulos G., **Koutras A.**, Christoyianni I., Dermatas E. "Computer Aided Diagnosis of Mammographic Tissue Using Shapelets in Quaternionic Representation", Kyriacou E., Christofides S., Pattichis C. (eds) *XIV Mediterranean Conference on Medical and Biological*

Engineering and Computing 2016. IFMBE Proceedings, vol 57, pp. 222-227, Springer, Cham, (2016)

- [B7] Apostolopoulos G., **Koutras A.**, Christoyianni I., Dermatas E., “Computer Aided Classification of Mammographic Tissue Using Shapelets and Support Vector Machines”, Likas A., Blekas K., Kalles D. (eds) Artificial Intelligence: Methods and Applications, SETN 2014, Lecture Notes in Computer Science, vol 8445, pp. 510-520, Springer, Cham, (2014)
- [B8] **Koutras A.**, Christoyianni I., Georgoulas G., Dermatas E. (2006) “Computer Aided Classification of Mammographic Tissue Using Independent Component Analysis and Support Vector Machines”, Kollias S., Stafylopatis A., Duch W., Oja E. (eds) Artificial Neural Networks – ICANN 2006. ICANN 2006, Lecture Notes in Computer Science, vol 4132, pp 568-577, Springer, Berlin, Heidelberg, (2006)
- [B9] **Koutras A.**, Dermatas E., Kokkinakis G., “Neural Network Based Blind Source Separation of Non-linear Mixtures”, Dorffner G., Bischof H., Hornik K. (eds) Artificial Neural Networks — ICANN 2001, ICANN 2001, Lecture Notes in Computer Science, vol 2130, pp.561-567, Springer, Berlin, Heidelberg, (2001)
- [B10] Christoyianni I., **Koutras A.**, Dermatas E., Kokkinakis G. (2001), “Breast Tissue Classification in Mammograms Using ICA Mixture Models”, Dorffner G., Bischof H., Hornik K. (eds) Artificial Neural Networks — ICANN 2001, ICANN 2001, Lecture Notes in Computer Science, vol 2130, pp.554-560, Springer, Berlin, Heidelberg, (2001).
- [B11] **Koutras A.**, Christoyianni I., Dermatas E., Kokkinakis G. (2001), “Feature Extraction in Digital Mammography: An Independent Component Analysis Approach”, Mira J., Prieto A. (eds) Bio-Inspired Applications of Connectionism, IWANN 2001, Lecture Notes in Computer Science, vol 2085, pp.794-801, Springer, Berlin, Heidelberg, (2001).

#### International Conferences publications

- [C1] Zouridis I, Koupparis A, Stavrinou M, Kokkinos V, Sakellariou D, **Koutras A.** and Kostopoulos G, “A High Resolution EEG Human Sleep Dataset”, 27th Meeting of the Hellenic Society for Neuroscience (HSfN 2017), Athens, Greece, 2017. (κρίση σε περίληψη)
- [C2] G. Apostolopoulos, **A. Koutras**, I. Christoyianni, E. Dermatas, “A New Method for Breast Cancer Identification Using Multi-modal Features in Quaternionic Form”, 25th European Signal Processing Conference (EUSIPCO), 28/8-2/9, 2017, Kos Island, Greece, pp. 66-70, 2017 (κρίση σε πλήρες κείμενο)
- [C3] **Koutras A.**, Zouridis I., Giannakopoulou A. and Kostopoulos G., “Comparison of sleep spindles’ characteristics in descending compared to ascending slope of the nrem/rem sleep cycle”, 1st International Conference on Sleep Spindling, Budapest, Hungary, 2016. (κρίση σε περίληψη)
- [C4] I. Zouridis, **A. Koutras**, G. Kostopoulos, “Are sleep spindles and K-complexes related to cardiac activity?”, 6th Panhellenic Conference on Sleep Research, Athens, Greece, 2016 (κρίση σε περίληψη)
- [C5] **A. Koutras**, G.K. Kostopoulos, A.A. Ioannides, “Single trial analysis of somatosensory evoked responses using constrain ICA”, 20th Annual Meeting of the Hellenic Society for Neuroscience, Heraklion, Crete, Greece, 28 September–1 October 2006.(κρίση σε περίληψη)

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- [C6] K. Tsatsou, **A. Koutras**, G.K. Kostopoulos, "Analysing the Dynamic Relations of Sympathetic Skin Response and Somatosensory ERP Activity", 5th European Symposium on Biomedical Engineering (ESBME), Patras, July 2006. (κρίση σε εκτεταμένη περίληψη)
- [C7] **A. Koutras**, G. Georgoulas, "Robust Cardiotocogram Prediction using Independent Component Analysis", 5th European Symposium on Biomedical Engineering (ESBME), Patras, July 2006. (κρίση σε εκτεταμένη περίληψη)
- [C8] **A. Koutras**: "Blind Separation of Non-linear Convolved Speech Mixtures", International Conference in Acoustics, Speech and Signal Processing, Orlando, Florida, Vol. 1, pp. 913-916, May 2002. (κρίση σε πλήρες κείμενο)
- [C9] **A. Koutras**, E. Dermatas: "Robust Speech recognition in a high interference real room environment using blind speech extraction", International Conference on Digital Signal Processing, Santorini, Greece, pp. 167-171, July 2002. (κρίση σε πλήρες κείμενο)
- [C10] I. Christoyianni, **A. Koutras**, E. Dermatas: "Computer Classification of Mammographic Tissue using Independent Component Analysis", International Conference on Digital Signal Processing, Santorini, Greece, pp. 163-166, July 2002. (κρίση σε πλήρες κείμενο)
- [C11] **A. Koutras**, E. Dermatas: "Blind Speech separation for solving the cocktail party problem in real room environments", DOGS 2002, pp. 41-44, Becej, Jugoslavia, May 2002. (διπλή δημοσίευση – σε περιοδικό και συνέδριο) (κρίση σε πλήρες κείμενο)
- [C12] **A. Koutras**, E. Dermatas and G. Kokkinakis: "Blind Speech Separation of Moving Speakers Using Hybrid Neural Networks", EuroSpeech 2001, Aalborg, Denmark, Vol. 2, pp. 997-1000, September 2001. (κρίση σε πλήρες κείμενο)
- [C13] **A. Koutras**, E. Dermatas and G. Kokkinakis: "Improving Simultaneous Speech Recognition in Real-Room Environments Using Overdetermined Blind Source Separation", EuroSpeech 2001, Aalborg, Denmark, Vol. 2, pp. 1009-1012, September 2001. (κρίση σε πλήρες κείμενο)
- [C14] **A. Koutras**, I. Christoyianni, G. Nokas, G. Georgoulas, C. Stylios and P. Groumpos, "Linear and Nonlinear approaches for Cardiotocographic Data Prediction", 5th International Workshop on Mathematical methods in Scattering Theory and Biomedical Technology, Corfu, Greece, pp. 336-344, October 2001. (κρίση σε περίληψη)
- [C15] G. Nokas, **A. Koutras**, I. Christoyianni, G. Georgoulas, C. Stylios and P. Groumpos, "Prediction of Missing data in Cardiotocograms using Expectation Maximization Algorithm", 5th International Workshop on Mathematical methods in Scattering Theory and Biomedical Technology, Corfu, Greece, pp. 354-362, October 2001. (κρίση σε περίληψη)
- [C16] **A. Koutras**, E. Dermatas and G. Kokkinakis: "Blind Speech Separation Using Wavelet Decomposition", 6th International Workshop on Speech and Computers, Moscow, Russia, pp. 146-149, October 2001. (κρίση σε περίληψη)
- [C17] I. Christoyianni, **A. Koutras**, E. Dermatas and G. Kokkinakis: "Neural Classification of Breast Tissue in Mammograms: Linear Analysis in Texture Feature Space", International Conference on Neural Networks and Expert Systems in Medicine and Healthcare, Milos Island, Greece, pp. 69-73, June 2001. (κρίση σε εκτεταμένη περίληψη)

- [C18] **A. Koutras**, E. Dermatas and G. Kokkinakis: "Overdetermined Blind Speech Separation", International Conference "100 years of Experimental Phonetics in Russia", St. Petersburg, Russia, pp. 117-120, February 2001. (κρίση σε περίληψη)
- [C19] **A. Koutras**, E. Dermatas and G. Kokkinakis: "Blind separation of speakers in noisy environments: A neural network approach", Neural Network World Conference, Prague, Czech Republic, July 2000. (διπλή δημοσίευση – σε περιοδικό και συνέδριο) (κρίση σε πλήρες κείμενο)
- [C20] **A. Koutras**, E. Dermatas and G. Kokkinakis: "Simultaneous speech recognition in noisy reverberant environments", 4th World Multiconference on Circuits, Systems, Communications & Computers, Athens, Greece, pp. 288-292, July 2000. (κρίση σε πλήρες κείμενο)
- [C21] **A. Koutras**, E. Dermatas and G. Kokkinakis: "Blind speech separation of moving speakers in real reverberant environments", International Conference in Acoustics, Speech and Signal Processing, Istanbul, Turkey, Vol. 2, pp. 1133-1136, June 2000. (κρίση σε πλήρες κείμενο)
- [C22] **A. Koutras**, E. Dermatas and G. Kokkinakis: "Blind signal separation and speech recognition in the frequency domain", 6th International Conference on Electronics, Circuits and Systems Pafos, CYPRUS, Vol. 1, pp. 427-430, September 1999. (κρίση σε εκτεταμένη περίληψη)
- [C23] **A. Koutras**, E. Dermatas and G. Kokkinakis: "Recognizing simultaneous speech: A genetic Algorithm approach", EuroSpeech 1999, Budapest, Hungary, Vol. 6, pp. 2551- 2554, September 1999. (κρίση σε περίληψη)
- [C24] **A. Koutras**, E. Dermatas and G. Kokkinakis, "Continuous Speech Recognition in a Multi-simultaneous-speaker environment using decorrelation filtering in the frequency domain", 3rd International Workshop on Speech and Computers, St. Petersburg Russia, pp 253-256, October 1998. (κρίση σε περίληψη)
- [C25] **A. Koutras**, E. Dermatas and G. Kokkinakis, "Speech Recognition in a real room and multi-simultaneous-speaker environment", 1st International Workshop on Text, Speech & Dialogue, Brno, Czech Republic, pp. 251-256, September 1998. (κρίση σε περίληψη)
- [C26] **A. Koutras**, E. Dermatas and G. Kokkinakis, "Speech recognition through an omni-directional microphone in a multi-simultaneous-speaker environment", 2nd International Workshop on Speech and Computers, Cluj-Napoca, Romania, pp 99-104, October 1997. (κρίση σε περίληψη)

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