

CURRICULUM VITAE

Nicolas Alexander K. Tatlas

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1. PERSONAL INFORMATION

Name: Nicolas-Alexander Tatlas
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2. STUDIES AND RESEARCH INTERESTS

2.1 STUDIES

2001-2006: PhD in Electrical and Computer Engineering, Department of Electrical and Computer Engineering, University of Patras, Greece.
1996-2001: Diploma of Electrical and Computer Engineering, Department of Electrical and Computer Engineering, University of Patras, Greece.

2.2 RESEARCH INTEREST AREAS

- Analysis, Processing and Conversion of digital audiovisual signals
- Digital amplification of audio signals
- Coding and distribution of audiovisual signals
- Digital audio and image applications for communication networks
- Embedded audiovisual systems for consumer and professional applications
- Wireless audiovisual transmission technologies
- Open and closed space acoustics study, measurements and simulation.
- Measurement of acoustic quality, intelligibility and fidelity of audio signals
- Wireless Acoustic Sensor Networks

3. TEACHING EXPERIENCE

2009 –2011 **Adjunct Professor**, Dept. of Electronics, TEI of Piraeus
«**Radio and Television Systems**», Lectures and Lab exercises
«**Design of RF Electronic Circuits**», Lab exercises.
«**Sound Systems** », Lab exercises.

2011 – 2015 **Lecturer**, Dept. of Electronics, TEI of Piraeus
«**Radio and Television Systems**», Lectures and Lab exercises
«**Sound Systems**», Lab exercises.
«**Logic Circuit Design**», Lab exercises.
«**Introduction to Telecommunications**», Lab exercises.

2015 –2018 **Assistant Professor**, Dept. of Electronics Engineering, Piraeus University of Applied Sciences
«**Radio and Television Systems**», Lectures and Lab exercises
«**Microelectronics – VLSI**», Lectures and Lab exercises
«**Sound Systems**», Lab exercises.
«**Logic Circuit Design**», Lab exercises.
«**Introduction to Telecommunications**», Lab exercises.

2018 – 2019 **Assistant Professor**, Dept. of Electrical and Electronics Engineering, University of West Attica
«**Digital Radio and Television Systems**», Lectures and Lab exercises

«**Computer Networks**», Lectures and Lab exercises

«**Speech and Audio Digital Technologies**», Lectures and Lab exercises

2019 – today **Associate Professor**, Dept. of Electrical and Electronics Engineering, University of West Attica

4. RESEARCH ACTIVITY - PROFESSIONAL EXPERIENCE

4.1 PARTICIPATION IN RESEARCH AND DEVELOPMENT PROGRAMS

2002 – 2004 Infotainment management with speech interaction via remote microphone interfaces, IST

2004 – 2006 Wireless Networked Loudspeakers, GSRT

2006 – 2007 «General architecture for a speech recognition system targeted at commercial applications», GSRT

2007 The potential labor market in the Mediterranean basin (MAVITRA)

2007 – 2008 Interactive Environment of the New Corfu Fortress

2009 «Z-PHONE: Novel low-powered headsets based on Zigbee technology», Eurostars/GSRT.

2009 – 2013 «Design of a prototype frame for multimedia reproduction», Corallia Phase II.

2009 – 2013 «MEMSense: Development of Innovative sensor systems offering distributed intelligence», Corallia Phase II. Technical leader for the “smart microphone” system.

2011 – 2014 High-fidelity online multimedia download and playback system with smart customization features, GSRT

2012 – 2015 A distributed microelectronic system for environmental monitoring with emphasis on sound mapping (ESOUNDMAPS)

2012 – 2015 Open Source Platform for Wireless Sensor Network Training and Research

2013 – 2015 Energy autonomous smart greenhouse, GSRT

2015 – 2017 Novel automatic and stand-alone integrated pest management tool for remote count and bioacoustics identification of the Olive Fly (*Bactrocera oleae*) in the field

2015 – 2016 “Improving aural cultural links between different lingual communities in Thrace” (EOX GR07/3768)

2016 – 2019: STORM - Safeguarding Cultural Heritage through Technical and Organisational Resources Management.

2018 – 2019: Interconnected Smart Infrastructures and Applications for Protection and Security, "RESEARCH - CREATE - INNOVATE"

2018 – today: Integrated Heterogeneous Vehicle Cost Operation and Maintenance Monitoring System Using Automated Data Collection Procedures and Smart Prediction Techniques, "RESEARCH - CREATE - INNOVATE"

2018 – today: Automatic Application for Pre-Hospital In-Home Sleep Apnea Examination, "RESEARCH - CREATE - INNOVATE"

4.2 OTHER PROFESSIONAL EXPERIENCE

2001 – 2002 System Engineer, ATMEL Hellas S.A.

2008 – 2009 R&D, inAccess Networks AE.

2009 – 2011 R&D, BLUEdev

4.3 SCIENTIFIC JOURNAL REVIEWER

1. Journal of the Audio Engineering Society (IF:0,774)
2. Journal of Sensors (IF: 2,057)
3. International Journal of Electronics (IF: 0,939)
4. Ad Hoc Networks (IF: 3,15)
5. Electronics (IF: 2,110)

5. PARTICIPATION IN SCIENTIFIC BOARDS

1. Member of the Institute of Electrical and Electronic Engineering (IEEE)
2. Member of the Audio Engineering Society (AES)
3. Member of the Technical Chamber of Greece (TEE)

6. FOREIGN LANGUAGES

- English (Fluent)
- French (Good)

7. SCIENTIFIC PUBLICATIONS

7.1 DISSERTATIONS (2)

- [Δ1] **N. A. Tatlas**, “Design and Development of an All-Digital Audio Signal Amplifier”, Department of Electrical and Computer Engineering, University of Patras, Greece 2001.
- [Δ2] **N. A. Tatlas**, “Electroacoustic systems technologies for direct reproduction and wireless transmission of digital sound signals”, Ph.D. Thesis, Department of Electrical and Computer Engineering, University of Patras, Greece 2006, Thesis Number: 180.

7.2 JOURNAL PUBLICATIONS (23)

- [II1] T. Giannakopoulos, **N. A. Tatlas**, T. Ganchev, I. Potamitis, “A practical, real-time speech-driven home automation front-end”, IEEE Transactions on Consumer Electronics, Volume 51, No.2, May 2005, p. 514-523.
- [II2] A. Floros, **N. A. Tatlas** and J. N. Mourjopoulos, “BlueBox: A cable-free Digital Jukebox for compressed-quality Audio Delivery”, IEEE Transactions on Consumer Electronics, Vol. 51, No. 2, May 2005, pp. 534 – 539.
- [II3] A. Floros, **N. A. Tatlas** and J. Mourjopoulos, “A High-quality Digital Audio Delivery Bluetooth Platform”, IEEE Transactions on Consumer Electronics, Vol. 52, No.3, Aug. 2006, pp. 909-916.
- [II4] **N. A. Tatlas**, A. Floros, T. Zarouchas and J. Mourjopoulos, “Perceptually-optimized Error Concealment for Audio over WLANs”, Mediterranean Journal of Electronics and Communications, Vol. 3, No. 3, July 2007, pp. 77 - 86.
- [II5] **N. A. Tatlas**, A. Floros, T. Zarouchas and J. Mourjopoulos, “WLAN Technologies for Audio Delivery”, Advances on Multimedia Journal, Special Issue “Multimedia Transmission over Emerging Wireless Technologies”, Volume 2007, Article ID 12308, December 2007.
- [II6] **N. A. Tatlas**, F. Kontomichos and J. Mourjopoulos, “Design and Performance of a Sigma-Delta Digital Loudspeaker Array Prototype”, Journal of the Audio Engineering Society, Vol. 57, No. 1/2, 2009 January/February.

- [II7] S. Psarras, P. Hatziantoniou, M. Kountouras, **N. A. Tatlas**, J. Mourjopoulos and D. Skarlatos, “Measurements and analysis of the Epidaurus ancient theater acoustics”, *Acta Acustica united with Acustica*, Volume 99, Number 1, January/February 2013.
- [II8] S. Potirakis, **N.A. Tatlas**, N. Zafeiropoulos, T. Ganchev and M. Rangoussi, “Assessment of military intercom headsets for maximum voice reproduction level in high noise conditions”, *Applied Acoustics*, Volume 74, Issue 6, June 2013, Pages 870–881.
- [II9] T. Ganchev, S. M. Potirakis, G. Tuna, **N. A. Tatlas**, R. Zogo, «Design considerations of an interactive robotic agent for public libraries», *Journal of Balkan Libraries Union* 1(1), 1-6, 2013 (<http://bkdb.trakya.edu.tr/index.php/bluj/article/view/3>).
- [II10] S. M. Potirakis, B. Nefzi, **N. A. Tatlas**, G. Tuna, and M. Rangoussi, «A Wireless Network of Acoustic Sensors for Environmental Monitoring», *Key Engineering Materials* 605, 43-46, 2014, doi: 10.4028/www.scientific.net/KEM.605.43.
- [II11] S. M. Potirakis, B. Nefzi, **N. A. Tatlas**, G. Tuna, and M. Rangoussi, “Design Considerations for an Environmental Monitoring Wireless Acoustic Sensor Network”, *Sensor Letters*, 2014, doi: 10.1166/sl.2014.3333..
- [II12] **N. A. Tatlas**, S. M. Potirakis, S. A. Mitilineos, M. Rangoussi, «On the effect of compression on the complexity characteristics of wireless acoustic sensor network signals», *Signal Processing*, 2015, doi: 10.1016/j.sigpro.2014.08.012.
- [II13] **N. A. Tatlas**, D. Ballios, S. Potirakis, C. Charitou, S. Koutroubinas, M. Rangoussi, “A smart sensor platform for Greenhouse applications”, *Key Engineering Materials Vol 644* (2015) pp 92-95, doi: 10.4028/www.scientific.net/KEM.644.92
- [II14] S. A. Mitilineos, S. M. Potirakis, **N.A. Tatlas**, and M. Rangoussi, “High-Level Sound Classification in the ESOUNDMAPS Project”, *Key Engineering Materials Vol 644* (2015) pp 83-86, doi:10.4028/www.scientific.net/KEM.644.83
- [II15] Potamitis I, Rigakis I, **Tatlas N-A**, «Automated Surveillance of Fruit Flies», *MDPI Sensors*. 2017; 17(1):110, doi:10.3390/s17010110
- [II16] S. A. Mitilineos, S. M. Potirakis, **N.-A. Tatlas**, M. Rangoussi, “A two-level sound classification platform for environmental monitoring”, *J.Sensors*, 2018, 5828074 (1-13), doi: 10.1155/2018/5828074
- [II17] P. Eliopoulos, **N.A. Tatlas**, I. Rigakis and I. Potamitis, “A “Smart” Trap Device for Detection of Crawling Insects and Other Arthropods in Urban Environments”, *MDPI Electronics* 2018, doi:10.3390/electronics7090161
- [II18] Giannakopoulos, G., **Tatlas, N. A.**, Giannakopoulos, V., Floros, A. and Katsoulis, P., «Accessible electronic games for blind children and young people», 2018, *Br J Educ Technol*, 49: 608-619. doi:10.1111/bjet.12628
- [II19] T. Jacques, G. Korres, **N. Tatlas**, S. Potirakis, B. Kotecha, Use of a contact microphone for high-quality recording of snoring during natural or drug-induced sleep, *Rhinology Online*, 1, 201-203, 2018, doi: 10.4193/RHINOL/18.029.
- [II20] S. A. Mitilineos, **N.-A. Tatlas**, S. M. Potirakis, M. Rangoussi. «Neural Network Fusion and Selection Techniques for Noise-Efficient Sound Classification», *Journal of the Audio Engineering Society* Volume 67 Issue 1/2 pp. 27-37; January 2019
- [II21] Rigakis, I.; Potamitis, I.; **Tatlas, N.-A.**; Livadaras, I.; Ntalampiras, S. “A Multispectral Backscattered Light Recorder of Insects’ Wingbeats”, *MDPI Electronics* 2019, 8, 277. doi:10.3390/electronics8030277
- [II22] Potamitis, I.; Rigakis, I.; **Tatlas, N.-A.**; Potirakis, S. M “In-vivo acoustic surveillance of trees in the context of IoT”, *MDPI Sensors* 2019, 19, 1366. doi:10.3390/s19061366
- [II23] P.Kasnesis, **N.A. Tatlas**, S. Mitilineos, C. Patrikakis and S. Potirakis, “Acoustic sensors data flow for cultural heritage monitoring and safeguarding”, *Sensors* 2019, 19, 1629. doi: 10.3390/s19071629

7.3 INTERNATIONAL CONFERENCE PROCEEDINGS – Full Text Review (16)

- [Σ1] P. Hatziantoniou, I. Potamitis, **N. A. Tatlas**, J. Mourjopoulos and N. Fakotakis, “Robust speech recognition in reverberant environments based on complex-smoothed responses”, presented at the 10th International Conference on Speech and Computer, Patras, October 2005
- [Σ2] **N. A. Tatlas**, A. Floros and J. Mourjopoulos, “Wireless Digital Audio Delivery Analysis and Evaluation”, Proceedings of the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) 2006, Toulouse, France, 16 – 19 May 2006, pp. V-201 – V-204.
- [Σ3] **N. A. Tatlas**, A. Floros, T. Zarouchas and J. Mourjopoulos, “An Error – Concealment Technique for Wireless Digital Audio Delivery”, In Proc. of the 5th International Conference on Communication Systems, Networks and Digital Signal Processing (CSNDSP’06), July 19 – 21 2006, Patras, Greece, pp. 181 - 184.
- [Σ4] *K. Agavanakis*, G. Panagakis, **N.A. Tatlas** and S. Koutroubinas, “Hardware Virtualization for Rapid and Secure CE Product Development and Life Cycle Management”, IEEE International Conference on Consumer Electronics (ICCE 2011), January 9-11 2011, Las Vegas.
- [Σ5] A. Floros and **N.A. Tatlas**, “Spatial enhancement for immersive stereo audio applications”, 17th International Conference on Digital Signal Processing (DSP 2011), July 6-8 2011, Corfu, Greece.
- [Σ6] A. Floros, **N.A. Tatlas** and S. Potirakis, “Sonic perceptual crossings: a tic-tac-toe audio game”, Proceedings of the 6th Audio Mostly Conference: A Conference on Interaction with Sound, p. 88-94, 2011.
- [Σ7] S. Vassilantonopoulos, *P. Hatziantoniou*, **N.A. Tatlas**, T. Zakynthinos, D. Skarlatos and J. Mourjopoulos, “Measurements and analysis of the acoustics of the ancient theatre of epidaurus”, presented at The Acoustics of Ancient Theatres Conference, Patras, September 18-21, 2011
- [Σ8] S. M. Potirakis, B. Nefzi, **N.A. Tatlas**, G. Tuna and M. Rangoussi, “A wireless network of acoustic sensors for environmental monitoring”, 3rd International Conference on Materials and Applications for Sensors and Transducers, IC-MAST 2013, September 13-17, 2013, Prague, Czech Republic.
- [Σ9] G. Tuna, S. M. Potirakis, **N. A. Tatlas**, A. Tuna, R. Zogo, G. Gezer and K. Gulez, “Design Considerations of a Robotic Agent for Libraries”, 7th International Advanced Technologies Symposium (IATS’13), Yildiz Technical University, Istanbul, Turkey, 30 October - 1 November, 2013.
- [Σ10] G. Gezer, K. Gulez, B. Nefzi, S. M. Potirakis, **N. A. Tatlas** “Autonomous control of multi-boat group with neural networks”, 7th International Advanced Technologies Symposium (IATS’13), Yildiz Technical University, Istanbul, Turkey, 30 October - 1 November, 2013.
- [Σ11] S. Mtilineos , S. Potirakis , **N. A. Tatlas** , M. Rangoussi, “High-level sound classification in the ESOUNDMAPS project”, in Proceedings of the 4th International Conference on Materials and Applications for Sensors and Transducers, IC-MAST 2014, June 8-11, 2014, Bilbao, Spain.
- [Σ12] **N. A. Tatlas**, D. Ballios, S. Potirakis, C. Charitou, S. Koutroubinas, M. Rangoussi, “A smart sensor platform for Greenhouse applications”, in Proceedings of the 4th International Conference on Materials and Applications for Sensors and Transducers, IC-MAST 2014, June 8-11, 2014, Bilbao, Spain.
- [Σ13] K. Drossos, A. Floros, S. Potirakis, **N. A. Tatlas**, and G. Tuna, “A Socially-Intelligent Multi-Robot Service Team for In-Home Monitoring”, Proceedings of the IISA 2014, The 5th International Conference on Information, Intelligence, Systems and Applications, Chania, Crete, Greece, 7-9 July 2014, 159 – 164, doi: 10.1109/IISA.2014.6878763.
- [Σ14] E. T. Michailidis, J. Liaperdos, **N.-A. Tatlas**, S. M. Potirakis, and M. Rangoussi, “Sound-maps of environmentally sensitive areas constructed from Wireless Acoustic Sensors Network data”, in Proceedings of the IC-MAST 2015, 5th International Conference on Materials and Applications for Sensors and Transducers, September 27-30, 2015, Mykonos, Greece, IOP Conf. Ser.: Mater. Sci. Eng., 108, 012012, 2016, doi: 10.1088/1757-899X/108/1/012012

- [Σ15] **N. A. Tatlas**, S. M. Potirakis, S. A. MitiIineos, S. Despotopoulos, D. Nicolaidis, M. Rangoussi, A Wireless Acoustic Sensor Network for environmental monitoring based on flexible hardware nodes, in Proceedings of Audio Mostly 2015, 7-9 October, Thessaloniki - GREECE, ,doi: 10.1145/2814895.2814911.
- [Σ16] I. Potamitis, I. Rigakis, **N.A. Tatlas** and S. Kouzoupis, “A novel electronic gate that identifies and counts bees based on their RGB backscattered light” accepted in the 23rd International Conference on Circuits, Systems, Communications and Computers (CSCC 2019), Athens, July 14-17, 2019`

7.4 INTERNATIONAL CONFERENCE PROCEEDINGS – Extended Abstract Review (16)

- [E1] *A. Floros*, **N. A. Tatlas** and J. Mourjopoulos, “A Distortion-free PWM Coder for All-digital Audio Amplifiers”, presented at the Audio Engineering Society 110th Convention, Amsterdam, May 2001 [preprint 5361]
- [E2] *A. Floros*, M. Koutroubas, **N. A. Tatlas** and J. Mourjopoulos, “A Study of Wireless Compressed Digital-Audio Transmission”, presented at the Audio Engineering Society 112th Convention, Munich, May 2002 [preprint 5516].
- [E3] **N. A. Tatlas**, *A. Floros*, P. Hatziantoniou and J. Mourjopoulos, “Towards The All-Digital Audio/Acoustic Chain: Challenges and Solutions”, 23rd Audio Eng. Soc. Conference on Signal Processing in Audio Recording and Reproduction, Copenhagen, May 2003.
- [E4] **N. A. Tatlas**, J. Mourjopoulos, “Digital Loudspeaker Arrays driven by 1-bit signals”, presented at the Audio Engineering Society 116th Convention, Berlin, May 2004 [preprint 6036].
- [E5] **N. A. Tatlas**, *A. Floros* and J. Mourjopoulos, “An Evaluation Tool for Wireless Digital Audio Applications”, Audio Eng. Soc. 118th Convention, Barcelona, May 2005 [preprint 6386].
- [E6] Ch. Tsakostas, P. Koutsibitis, *A. Floros*, D. Troupis and **N. A. Tatlas**, “Reproduction of audio-visual interactive events in virtual ancient Greek spaces”, Proceedings of the Forum Acusticum 2005, Budapest, Aug. 29 – 2 Sep. 2005.
- [E7] N. Kokkos, *A. Floros*, **N. A. Tatlas** and J. Mourjopoulos, “A Paradigm for Wireless Digital Audio Home Entertainment”, Audio Eng. Soc. 120th Convention, Paris, May 2006 [preprint 6665].
- [E8] *F. Kontomichos*, **N. A. Tatlas** and J. Mourjopoulos, “Alternative Encoding Techniques for Digital Loudspeaker Arrays”, presented at the Audio Engineering Society 122th Convention, Vienna, May 2007 [preprint 7059].
- [E9] P. Alexandridis, **N. A. Tatlas**, P. Hatziantoniou and *J. Mourjopoulos*, “A Wireless PDA-based Acoustics Measurement Platform”, presented at the Audio Engineering Society 122th Convention, Vienna, May 2007 [preprint 7148].
- [E10] *A. Floros*, **N. A. Tatlas**, J. Mourjopoulos and D. Grimanis, “Cable-free Audio Delivery for Home Theater Entertainment Systems”, presented at the Audio Eng. Soc. 124th Convention, Amsterdam. May 2008 [preprint 7394].
- [E11] *S.Potirakis*, **N. A. Tatlas**, and M. Rangoussi, “Electroacoustic measurements for high noise environment intercom headsets”, presented at the Audio Eng. Soc. 128th Convention, London, May 2010 [preprint 8077].
- [E12] M. Rangoussi, *S.Potirakis*, I. Paraskevas and **N. A. Tatlas**, “On the development and use of sound maps for environmental monitoring”, presented at the Audio Eng. Soc. 128th Convention, London, May 2010 [preprint 8113].
- [E13] K. Drossos, *A. Floros*, K. Agavanakis, **N. A. Tatlas**, and N. Kanellopoulos, “Emergency Voice/Stress-level Combined Recognition for Intelligent House Applications”, presented at the Audio Eng. Soc. 132th Convention, Budapest, May 2012.
- [E14] P. Hatziantoniou, **N. A. Tatlas**, and *S. Potirakis*, “Optimizing teaching room acoustics: A comparison of minor structural modifications to dereverberation based on smoothed responses”, presented at the Audio Eng. Soc. 132th Convention, Budapest, May 2012.

- [E15] E. Kokkinis, K. Drossos, **N. A. Tatlas**, A. Floros, A. Tsilfidis and K. Agavanakis “Smart microphone sensor system platform”, presented at the Audio Eng. Soc. 132th Convention, Budapest, May 2012.
- [E16] P. Hatziantoniou, **N. A. Tatlas**, and S. Potirakis, “Optimizing teaching room acoustics: Investigating the exclusive use of a distributed electroacoustic installation to improve the speech intelligibility”, presented at the Audio Eng. Soc. 134th Convention, Rome, May 2013.

7.5 CONFERENCE PROCEEDINGS –Abstract Review (21)

- [A1] Α. Φλώρος, **N. A. Τάτλας**, Ε. Λαμαλού, Π. Χατζηαντωνίου, Ι. Μουρτζόπουλος, "Μελέτη και Ανάπτυξη Λογισμικού για την Εξομοίωση Κλειστού Χώρου", Πρακτικά Συνεδρίου ΕΛ.ΙΝ.Α. «Ακουστική 2002», Πάτρα, Οκτώβριος 2002.
- [A2] Α. Φλώρος, **N. A. Τάτλας**, Μ. Κουτρούμπας, Ι. Μουρτζόπουλος, "Μελέτη Ασύρματης Μετάδοσης Συμπιεσμένου Ψηφιακού Ήχου", Πρακτικά Συνεδρίου ΕΛ.ΙΝ.Α. «Ακουστική 2002», Πάτρα, Οκτώβριος 2002.
- [A3] Σ. Κουτσομήτσος, **N. A. Τάτλας** και Ι. Μουρτζόπουλος, "Υλοποίηση πρωτοτύπου πλήρως ψηφιακού ενισχυτή ηχητικών σημάτων", Πρακτικά Συνεδρίου ΕΛ.ΙΝ.Α. «Ακουστική 2004», Θεσσαλονίκη, Οκτώβριος 2004.
- [A4] Σ. Βασιλαντωνόπουλος, Τ. Ζακυνθινός, Π. Χατζηαντωνίου, **N. A. Τάτλας**, Δ. Σκαρλάτος, Ι. Μουρτζόπουλος, "Μέτρηση και Ανάλυση της Ακουστικής του Θεάτρου της Επιδαύρου", Πρακτικά Συνεδρίου ΕΛ.ΙΝ.Α. «Ακουστική 2004», Θεσσαλονίκη, Οκτώβριος 2004.
- [A5] **N. A. Τάτλας**, Φ. Κοντομίχος, Α. Φλώρος, Ι. Μουρτζόπουλος, “Πλήρως Ψηφιακά Ηχεία: μέθοδοι και τεχνικές υλοποίησης”, Πρακτικά Συνεδρίου ΕΛ.ΙΝ.Α «Ακουστική 2006» Ηράκλειο, Σεπτέμβριος 2006.
- [A6] Ν. Κόκκος, Α. Φλώρος, **N. A. Τάτλας**, Ι. Μουρτζόπουλος, “NetSpeaker: Πλατφόρμα ψηφιακών ασύρματων μεγαφώνων”, Πρακτικά Συνεδρίου ΕΛ.ΙΝ.Α «Ακουστική 2006» Ηράκλειο, Σεπτέμβριος 2006.
- [A7] Σ. Ποτηράκης, **N.A. Τάτλας**, “Μη Γραμμική Προτυποποίηση της Εμπέδησης Πρακτικού Ηλεκτροακουστικού Μετατροπέα”, Πρακτικά Συνεδρίου ΕΛ.ΙΝ.Α «Ακουστική 2010» Αθήνα, Οκτώβριος 2010.
- [A8] **N.A. Τάτλας**, Σ. Ποτηράκης, “Μικρής έκτασης τροποποιήσεις βελτιστοποίησης ακουστικής αιθουσών για χρήση ομιλίας.”, Πρακτικά Συνεδρίου ΕΛ.ΙΝ.Α «Ακουστική 2010» Αθήνα, Οκτώβριος 2010.
- [A9] Σ. Ποτηράκης, **N.A. Τάτλας**, :Ανάλυση ηχητικών σημάτων και συναρτήσεων μεταφοράς χώρων σε συνθήκες αντήχησης με όρους εντροπίας και πληροφορίας”, Πρακτικά Συνεδρίου ΕΛ.ΙΝ.Α «Ακουστική 2012» Κέρκυρα, Οκτώβριος 2012.
- [A10] S. M. Potirakis, A. Analytis, **N.-A. Tatlas**, and S. A. Mitilneos, “Identification of anomalies in the Earth’s electromagnetic field by spectral decomposition techniques”, in Proceedings of the the eRA – 7 The SynEnergy Forum, 27- 30 September 2012, Piraeus, GREECE
- [A11] S. Despotopoulos, E. Kyriakis-Bitzaros, I. Liaperdos, D. Nicolaidis, I. Paraskevas, S. M. Potirakis, M. Rangoussi, **N.-A. Tatlas**, “A flexible hardware basis for sensor network nodes with wireless communication capabilities”, in Proceedings of the the eRA – 7 The SynEnergy Forum, 27- 30 September 2012, Piraeus, GREECE.
- [A12] S. Despotopoulos, E. Kyriakis-Bitzaros, I. Liaperdos, D. Nicolaidis, I. Paraskevas, S. M. Potirakis, M. Rangoussi, **N.-A. Tatlas**, “Pattern recognition for the development of Sound Maps for environmentally sensitive areas”, in Proceedings of the the eRA – 7 The SynEnergy Forum, 27- 30 September 2012, Piraeus, GREECE.
- [A13] S. M. Potirakis, D. Mouzakis, D. Dimogianopoulos, S. A. Mitilneos, **N.-A. Tatlas**, M. Rangoussi, K. Eftaxias, “Laboratory investigation of failure processes in heterogeneous media”, in Proceedings of the the 5th International Conference on NDT, MINDT 2013, Athens Greece, Eugenides Foundation, May 20-22, 2013

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