

# Dimitrios E. Mylonas, PhD




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## Education

- 2019 – 2024  **Ph.D., School of Mechanical Engineering, NTUA.**  
Thesis title: *Local and Global Active Noise Control Systems in Vehicle Cabins.*  
DOI: 10.12681/eadd/57305
- 2017 – 2019  **M.Sc. Automation Systems, NTUA.**  
Thesis title: *Active Control of Low Frequency Acoustic Disturbances in Vehicles.*  
DOI: 10.26240/heal.ntua.17397
- 2004 – 2012  **Diploma, School of Electrical and Computer Engineering, NTUA.**  
Thesis title: *CO-Sensing Properties of CuxO-Based Nanostructured Thin Films Grown by Reactive Pulsed Laser Deposition.*

## Career Summary




- 2019 – . . .  **Researcher in Laboratory of Dynamics and Acoustics, NTUA.**
- 2017 – 2020  **Educator of Educational Robotics, Municipality of Nea Smyrni, Athens.**
- 2015 – 2017  **Educator in Greek Vocational High School.**
- 2013 – 2014  **IT Assistant and Network Administrator (During Military Service), Greek Army.**
- 2012 – 2013  **Electromechanical Installations, Freelancer.**

## Research Experience



- 2023 – . . .  **Green Intelligence,**  
An AI Based framework for unsupervised monitoring of large swarms of identical objects.
- 2019 – 2021  **PIANO (Path Identification for Active Noise Control),**  
Horizon 2020- Clean Sky 2 undertaking project.  
<https://cordis.europa.eu/project/id/885976>
- 2021 – 2022  **TRANVIC (Distributed smart material arrays for low frequency broadband active noise and vibration suppression in vehicles and light structures),**  
NSRF 2014-2020.
- 2018 – 2019  **TAVAC (Technologies of Active Vibration and Acoustic Comfort,**  
Horizon 2020- Clean Sky undertaking project.  
<https://cordis.europa.eu/project/id/717089>

## Research Publications

### Journal Articles

- 1 D. Mylonas, A. Erspamer, C. Yiakopoulos, and I. Antoniadis, "A virtual sensing active noise control system based on a functional link neural network for an aircraft seat headrest," *Journal of Vibration Engineering and Technologies*, vol. 12, pp. 3857–3872, 2024.  DOI: 10.1007/s42417-023-01090-5.
- 2 D. Mylonas, A. Erspamer, C. Yiakopoulos, and I. Antoniadis, "Global control of propeller-induced aircraft cabin noise using active sound absorbers," *Journal of Sound and Vibration*, vol. 573, p. 118 213, 2024, ISSN: 0022-460X.  DOI: <https://doi.org/10.1016/j.jsv.2023.118213>.
- 3 D. Mylonas, A. Erspamer, C. Yiakopoulos, and I. Antoniadis, "An extrapolation-based virtual sensing technique of improving the control performance of the fxlms algorithm in a maritime environment," *Applied Acoustics*, vol. 193, p. 108 756, 2022, ISSN: 0003-682X.  DOI: <https://doi.org/10.1016/j.apacoust.2022.108756>.

## Conference Proceedings

- 1 D. Mylonas, A. Erspamer, C. Yiakopoulos, and I. Antoniadis, "A reservoir computing approach in active noise control for vehicle applications," in *Proceedings of INTER-NOISE24*, Nantes, Greece, Aug. 2024, pp. 8923–8929.  DOI: 10.3397/IN\_2024\_4160.
- 2 D. Mylonas, A. Erspamer, C. Yiakopoulos, and I. Antoniadis, "Experimental evaluation of an active noise cancellation system for low frequency acoustic disturbances," in *Proceedings of the Acoustics 2024*, Rethymno, Greece, Oct. 2024.
- 3 D. Mylonas, A. Erspamer, C. Yiakopoulos, and I. Antoniadis, "A low computational complexity local active noise control system for adjacent aircraft seats," in *Proceedings of the Forum Acusticum 2023 (FA2023) Conference*, Torino, Italy, Sep. 2023.  DOI: 10.61782/fa.2023.0022.
- 4 D. Mylonas, A. Erspamer, C. Yiakopoulos, and I. Antoniadis, "Global active noise attenuation by combining local active noise control systems for noise attenuation in an aircraft cabin," in *Proceedings of the 29<sup>th</sup> International Congress on Sound and Vibration (ICSV29)*, Prague, Czech Republic, Jul. 2023.
- 5 D. Mylonas, A. Erspamer, C. Yiakopoulos, and I. Antoniadis, "A non-linear anc system for an aircraft's seat headrest," in *Proceedings of the Acoustics 2022*, Thessaloniki, Greece, Oct. 2022, pp. 486–493.
- 6 A. Erspamer, D. Mylonas, C. Yiakopoulos, and I. Antoniadis, "A narrowband virtual sensing active noise control system using esprit for an aircraft interior," in *Proceedings of the Euronoise 2021*, Madeira, Portugal (online), Oct. 2021.
- 7 D. Mylonas, A. Erspamer, A. Paradisiotis, C. Yiakopoulos, and I. Antoniadis, "A local active noise control system based on a nonlinear sensing technique for yacht applications," in *Proceedings of the EURO DYN 2020*, Athens, Greece (online), Jun. 2020.

# Skills

<b>Languages</b>	
Greek:	● ● ● ● ●
English, Spanish:	● ● ● ● ○
French, Russian:	● ● ○ ○ ○
<b>Coding</b>	
Python, Matlab:	● ● ● ● ○
C, Labview:	● ● ● ○ ○
<b>ML Frameworks</b>	
Tensorflow, Keras:	● ● ● ● ○
Pytorch:	● ● ● ○ ○
<b>Acoustic Simulations</b>	
Comsol Acoustics:	● ● ● ● ○

# Professional Memberships

- Technical Chamber of Greece, Member
- European Acoustics Association, Member
- Hellenic Institute of Acoustics, Member