

CURRICULUM VITAE

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Name: GIUSEPPE CIABURRO, M.D., Ph.D.

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Education:

Ph.D. Università degli Studi della Campania - Italy (Environmental Technical Physics)

M.D. Seconda Università di Napoli – Italy (Acoustics and Noise Control)

M.D. Università degli Studi di Napoli “Federico II” – Italy (Chemical Engineering)

Career:

2021- 2031 National Scientific Habilitation (ASN) for Associate Professor

2001- present Research Engineer, Dept. of Architecture and Industrial Design, Università degli Studi della Campania, Italy

2022 – present Distinguished Adjunct Faculty in the Department of Sustainable Engineering, Saveetha School of Engineering, India

2019- present Lecturer for the master’s degree in Informatics, Pegaso International Higher Education Institution, Malta (Artificial Intelligence, Software Engineering, Web Technologies, Human Computer Interaction)
<http://pegasointernational.eu/>

2017- present Book Author, Packt Publishing, Birmingham, United Kingdom

2023 Visiting Professor – Hindustan institute of Technology & Science – Department of Electronics and Communication Engineering – Chennai - India

Journal Board Service:

2022- present Associate Editor of Computational Intelligence in Robotics section for Frontier in Robotics and AI journal – ISSN: 2296-9144, Scopus covered

2021-present Editor of Acoustic section for “Current Physics” - <http://currentphysics.net/>

2022-present Editorial Board Member, Data – ISSN: 2306-5729, Scopus covered

2022-present Guest Editor of Special Issue "Data-driven Approach on Urban Planning and Smart Cities", *Data* – ISSN: 2306-5729, Scopus covered

2020-2022 Guest Editor of Special Issue "Knowledge Extraction from Data Using Machine Learning", *Data* – ISSN: 2306-5729, Scopus covered

2023-present Editorial Board Member, Sound & Vibration, ISSN: 1541-0161, Scopus covered, <https://www.techscience.com/sv/editors>

2023-present Editorial Advisory Board member, Nature Environment and Pollution Technology, ISSN: 09726268, Scopus covered

2022-present Editorial Board Member, Far East Journal of Experimental and Theoretical Artificial Intelligence - http://www.pphmj.com/journals/etai_editorial_board.htm

2020-present Editorial Board Member, CPQ Medicine
<https://www.cientperiodique.com/journal/editorboard/medicine>

2020-present Topics Board Editor Member, *Fibers* – ISSN: 2079-6439, Scopus covered

2023-present Topics Board Editor Member, Big Data and Cognitive Computing – ISSN: 2504-2289,

- Scopus covered
- 2020-present Reviewer Board Member, *Applied Acoustics* – Elsevier – ISSN: 0003682X, Scopus covered
- 2020-present Reviewer Board Member, *Materials & Design* – Elsevier – ISSN: 02641275, Scopus covered
- 2020-present Reviewer Board Member, *Journal of Non-Crystalline Solids* – Elsevier – ISSN: 0223093, Scopus covered
- 2020-present Reviewer Board Member, *Case Studies in Thermal Engineering* – Elsevier – ISSN: 2214157X, Scopus covered
- 2019-present Reviewer Board Member, *International Journal of Environmental Research and Public Health* - ISSN 1660-460, Scopus covered
- 2019-present Reviewer Board Member, *Sensors* - ISSN 1424-8220, Scopus covered
- 2019-present Reviewer Board Member, *Sustainability* - ISSN 2071-1050, Scopus covered
- 2020-present Reviewer Board Member, *Applied Science* - ISSN 2076-3417, Scopus covered
- 2020-present Reviewer Board Member, *Informatics* - ISSN 2227-9709, Scopus covered
- 2020-present Reviewer Board Member, *Big Data and Cognitive Computing* - ISSN 2504-2289, Scopus covered
- 2020-present Reviewer Board Member, *Data* - ISSN 2306-5729, Scopus covered

Conferences Board Service:

- 2024 Program Committee Member - 9th International Conference on Mechanical Structures and Smart Materials (ICMSSM2024) - <https://icmssm.org>
- 2024 Program Committee Member – 5th International conference on Advanced Natural Language Processing (AdNLP 2024) - <https://icaita2024.org/adnlp/index>
- 2024 Technical Program Committee Member – International Conference on Computer Science and Artificial Intelligence Applications (CSAIA 2024) - <https://www.iccsaia.org/>
- 2024 Technical Program Committee Member – International Conference on Artificial Intelligence and Smart Transportation Systems Technology (AISTS 2024) – <https://aists.easyaca.com.cn/>
- 2024 Technical Program Committee Member – International Conference on Bioengineering and Computer Aided Systems (BCAS 2024) - <https://bcas.easyaca.com.cn/>
- 2023 Organizing Committee Member - 3rd Global Summit on Civil, Architectural and Environmental Engineering (GSCAEE2023) – London - August 28-30, 2023 <https://www.thescientistt.com/2023/civil-structural-environmental-engineering>
- 2023 Program Committee Member - International Conference on Advanced Mechanical and Power Engineering (CAMPE-2023) - <https://campe.ipmach.kharkov.ua/>
- 2023 International Program Committees Member - 10th International Conference On Mechanical Engineering, Materials Science And Civil Engineering (ICMEMSCE) – <http://www.icmemsce.org/>
- 2023 Scientific Committee Member-2nd International Meet & Expo on Robot Intelligence Technology And Applications - ROBOTMEET2023 – <https://www.albedomeetings.com/2023/robotmeet>
- 2023 Program Committee Member - 11th Conference on Information and Communication Technologies of Ecuador (TICEC 2023) - <https://ticec2023.cedia.edu.ec/>
- 2023 Technical Program Committee Member – 5th International Conference on Communication and Intelligent Systems (ICCIS 2023) – <https://scrs.in/public/conference/iccis2023>
- 2023 Technical Program Committee Member – International Symposium on Green Technologies and Applications (ISGTA 2023) - <https://isgta-conf.org/>

- 2023 Technical Program Committee Member – MSEE2023 - 11th annual International Conference on Material Science and Environmental Engineering – <http://www.msee2023.com/>
- 2023 Technical Program Committee Member – ACCESS2023 - The 2nd International Conference On Advanced Civil Engineering and Smart Structures – <https://www.icaccess.org/>
- 2023 Technical Program Committee Member - CCSET2023 - Second International conference on Cybersecurity, Cybercrimes, and Smart Emerging Technologies <https://fedetcybex.org/>
- 2023 Technical Program Committees - The 2nd International Conference On Advanced Civil Engineering And Smart Structures - <https://icaccess.org/pages/committee.html>
- 2023 Technical Program Committee Member - International Conference on Mechanics, Electronics, Automation and Automatic Control (MEAAC 2023) - <http://www.meaac.org/>
- 2023 Technical Program Committee Member - ICPem2023 – The 4rd International Conference on Physics and Engineering Mathematics - <https://www.icpem.cn/>
- 2023 Technical Program Committee Member - International Conference on Intelligent Systems for Cyber Threat Intelligence (ICISCTI'23) - <https://iciscti.com/>
- 2023 Technical Program Committee Member – CEII2023 - 6th Asia Conference on Cognitive Engineering and Intelligent Interaction - <https://www.ceii.asia/>
- 2023 Technical Program Committee Member - International Conference on Advanced Computing & Next-Generation Communication - ICACNGC 2023 - <https://icacnc.org/>
- 2022 Steering Committee Chair - International Conference on Green Building and Environmental Protection (GBEP2022) - <http://www.icgbep.org/>
- 2022 Technical Program Chair - International Conference on Clean Energy Storage and Power Engineering (CESPE2022) - <http://www.cespe.org/>
- 2022 Technical Program Committee Member - International Conference on Advanced Computing & Next-Generation Communication ICACNGC 2022 - <https://icacnc.org/>
- 2022 Technical Program Committee Member - 10th annual International Conference on Material Science and Environmental Engineering [MSEE2022] – <http://www.msee2022.com/>
- 2022 Technical Program Committee Member - ICPem2022 - 3rd International Conference on Physics and Engineering Mathematics - <https://www.icpem.cn/>
- 2022 Technical Program Committee Member - CYBERCPS'22 - The 2nd International Conference on Cybersecurity & Cyber Physical Systems - <https://cybercps.org/>
- 2022 International Scientific Committees Member - 2022 International Conference on Computer, Communication, Control, Automation and Robotics (March 29-30, 2022 | Shanghai, China) - <http://www.cccar2022.org/com.html>
- 2022 Scientific Program Committee Member - 10th Conference on Information and Communication Technologies of Ecuador (TICEC 2022) <https://ticec2022.cedia.edu.ec/program-committee/>
- 2022 Technical Program Committee Member - ICCSET2022: International conference on Cybersecurity, Cybercrimes, and Smart Emerging Technologies <https://fedetcybex.org/committees/>
- 2022 Technical Program Committee Member – HMAS2022: International conference on Hydrology , Marine and Atmospheric Sciences Wuhan, China, at May 13-15, 2022 <http://www.hmas2022.com/>
- 2022 Technical Program Committee Member - 2022 International Conference on Electronics, Electrical and Control System (EECS 2022) - https://www.aconf.org/conf_187023.html
- 2021 Technical Program Committee Member – ICAIA2021 - International Conference on

- 2021 Artificial Intelligence and Applications - <http://www.icaia2021.com/>
Technical Program Committee Member - The International Conference
on Information, Communication & Cybersecurity ICI2C'21 -
<https://ici2c.org/committee/ttps://ici2c.org/committee/>
- 2021 Technical Program Committee Member - ICPem2021- 2nd International Conference on
Physics and Engineering Mathematics - <https://doi.org/10.1088/1742-6596/2148/1/011002>
- 2021 Program Committee Member - 9th Conference on Information and Communication
Technologies of Ecuador (TICEC 2021)
<https://ticec2021.cedia.edu.ec/index.php/es/organizacion/comite-de-programa>
- 2021 Reviewer Board Member - 4th International Conference on Mechanical, Electric and
Industrial Engineering (MEIE2021) - <http://www.icmeie.com/2021/>
- 2020 International Reviewer Committees member - 2020 International Conference on
Materials, Computer Engineering and Education Technology (MCEET 2020)
<http://www.mceet2020.com/page2.html>

Book Editorial Advisory Board

- 2021 Book Editorial Advisory Board Member - Artificial Intelligence and Blockchain for
Future Cybersecurity Applications - in "Studies in Big Data" - Springer –
ISBN: 978-3-030-74575-2
- 2021 Book Editorial Advisory Board Member - Big Data Intelligence for Smart Applications-
in "Studies in Computational Intelligence" - Springer – ISSN: 1860-949X
- 2021 Book Editorial Advisory Board Member - Combating Fake News with Computational
Intelligence Techniques - in "Studies in Computational Intelligence" - Springer
- 2019 Book Editorial Advisory Board Member - R Machine Learning Projects -
Packt Publishing – ISBN: 978-1-78980-794-3
- 2019 Book Editorial Advisory Board Member - Neural Networks with Keras Cookbook -
Packt Publishing – ISBN: 978-1-78934-664-0
- 2018 Book Editorial Advisory Board Member - Hands-On Machine Learning with C# -
Packt Publishing – ISBN: 978-1-78899-494-1
- 2018 Book Editorial Advisory Board Member - Hands-On Microservices with C# -
Packt Publishing – ISBN: 978-1-78953-368-2

Professional Honors & Recognition

- 2023 World's Top 2% Scientists by Stanford University
- 2023 Applied Sciences 2022 Outstanding Reviewer Award
<https://www.mdpi.com/journal/applsci/awards/1910/download>
- 2022 World's Top 2% Scientists by Stanford University
- 2021 Applied Sciences 2020 Outstanding Reviewer Award
<https://www.mdpi.com/journal/applsci/awards/848/download>
- 2020 Best Keras books of all time: Keras 2.x Projects - ISBN 978-1789536645.
(<https://bookauthority.org/>)
- 2019 Best AI Models books of all time: Neural Networks with R – ISBN 978-1788397872
(<https://bookauthority.org/>)

Invited Speaking Engagements, Presentations, Symposia & Workshops

- 2021 50th International Congress and Exposition on Noise Control Engineering 2021, INTER-
NOISE 2021: 21-24 August 2020 – Glasgow (Scotland)
- 2020 19th Conference on Applied Mathematics, APLIMAT 2019; Bratislava; Slovakia dal 04-

- 02-2019 al 06-02-2020 dal 04-02-2020 al 06-02-2020
- 2020 49th International Congress and Exposition on Noise Control Engineering 2020, INTER-NOISE 2020: 23-26 August 2020 – Seoul (Korea) dal 23-08-2020 al 26-08-2020
- 2019 18th Conference on Applied Mathematics, APLIMAT 2019; Bratislava; Slovakia dal 05-02-2019 al 07-02-2019 dal 05-02-2019 al 07-02-2019
- 2019 48th International Congress and Exposition on Noise Control Engineering 2019, INTER-NOISE 2019: 16-19 June 2019 – Madrid (SPAIN) dal 16-06-2019 al 19-06-2019
- 2016 45° International Congress and Exposition on Noise Control Engineering 2010, INTER-NOISE 2016: 21-24 August 2016 - Hamburg (Germany) dal 21-08-2016 al 24-08-2016
- 2015 22nd International Congress on Sound and Vibration, 12-16 July - Firenze (Italia) dal 12-07-2015 al 16-07-2015
- 2013 Convegno AIA-DAGA 2013 Conference on Acoustics – EAA Euroregio - EAA Winter School including the 40th Italian (AIA) Annual Conference on Acoustics and the 39th German Annual Conference on Acoustics (DAGA) Merano (Trento) dal 18-03-2013 al 21-03-2013
- 2012 39° Convegno Nazionale dell'Associazione Italiana di Acustica, 4-6 Luglio 2012 - Roma dal 04-07-2012 al 06-07-2012
- 2011 38° Convegno Nazionale dell'Associazione Italiana di Acustica, 8-10 Giugno 2011 – Rimini dal 08-06-2011 al 10-06-2011
- 2010 39 ° International Congress and Exposition on Noise Control Engineering 2010, INTER-NOISE 2010: 13-16 June 2010, Lisbon, Portugal from 13-06-2010 to 16-06-2010
- 2009 36th National Conference of the Italian Acoustics Association, organized by the National Institute of Metrological Research of Turin, from 10 to 12 June 2009 – Turin (Italy)

Bibliography:

Peer-Reviewed Original Research

1. Puyana-Romero, V., Jaramillo Cevallos, W. A., & Ciaburro, G. (2023). Simulation of Acoustic Properties of Plaster Matrix Composite MATERIAL Reinforced with Corn Stem Fibers. *Fibers*, 11(3), 26.
2. Gambardella, C., Moretti, R., Ciaburro, G., Martimucci, D., Marconi, F., & Parente, R. (2023). Thermal features and heat budget of Campi Flegrei unrest caldera from fast, high-resolution airborne mapping (No. EGU23-17477). *Copernicus Meetings*.
3. Ciaburro, G., Padmanabhan, S., Maleh, Y., & Puyana-Romero, V. (2023, February). Fan Fault Diagnosis Using Acoustic Emission and Deep Learning Methods. In *Informatics* (Vol. 10, No. 1, p. 24). MDPI.
4. Puyana-Romero, V., Chuquín, J. S. A., Chicaiza, S. I. M., & Ciaburro, G. (2023). Characterization and Simulation of Acoustic Properties of Sugarcane Bagasse-Based Composite Using Artificial Neural Network Model. *Fibers*, 11(2), 18.
5. Iannace, G., Bevilacqua, A., Ciaburro, G., & Trematerra, A. (2023). Evaluation of the Speech Intelligibility of the Ear of Dionysius in Syracuse. *Acoustics Australia*, 1-11.
6. Gambardella, C., Parente, R., Scotto di Santolo, A., & Ciaburro, G. (2023). New Digital Field of Drawing and Survey for the Automatic Identification of Debris Accumulation in Flooded Areas. *Sustainability*, 15(1), 479.
7. Puyana-Romero, V., Díaz-Márquez, A. M., Ciaburro, G., & Hernández-Molina, R. (2022). The Acoustic Environment and University Students' Satisfaction with the Online Education Method during the COVID-19 Lockdown. *International Journal of Environmental Research and Public Health*, 20(1), 709.

8. Ciaburro, G., & Iannace, G. (2022). Machine-learning-based methods for acoustic emission testing: a review. *Applied Sciences*, 12(20), 10476.
9. Ciaburro, G., Iannace, G., & Puyana-Romero, V. (2022, July). Sentiment Analysis-Based Method to Prevent Cyber Bullying. In *Proceeding of 2021 International Conference on Wireless Communications, Networking and Applications* (pp. 721-735). Singapore: Springer Nature Singapore.
10. Ciaburro, G. (2022). Machine fault detection methods based on machine learning algorithms: A review. *Mathematical Biosciences and Engineering*, 19(11), 11453-11490.
11. Ciaburro, G., Parente, R., Iannace, G., & Puyana-Romero, V. (2022). Design Optimization of Three-Layered Metamaterial Acoustic Absorbers Based on PVC Reused Membrane and Metal Washers. *Sustainability*, 14(7), 4218.
12. Puyana-Romero, V., Iannace, G., Cajas-Camacho, L. G., Garzón-Pico, C., & Ciaburro, G. (2022). Acoustic characterization and modeling of silicone-bonded cocoa crop waste using a model based on the gaussian support vector machine. *Fibers*, 10(3), 25.
13. Bevilacqua, A., Sukaj, S., Ciaburro, G., Iannace, G., Lombardi, I., & Trematerra, A. (2022). How a quartet of theatres plays under an acoustic perspective: A comparison between horseshoe shaped plans in Campania. *Building Acoustics*, 1351010X221080769.
14. Ciaburro, G., & Iannace, G. (2022). Membrane-type acoustic metamaterial using cork sheets and attached masses based on reused materials. *Applied Acoustics*, 189, 108605.
15. Bevilacqua, A., Ciaburro, G., Iannace, G., Lombardi, I., & Trematerra, A. (2022). Acoustic design of a new shell to be placed in the Roman amphitheater located in Santa Maria Capua Vetere. *Applied Acoustics*, 187, 108524.
16. Puyana-Romero, V., Cueto, J. L., Ciaburro, G., Bravo-Moncayo, L., & Hernandez-Molina, R. (2022). Community Response to Noise from Hot-Spots at a Major Road in Quito (Ecuador) and Its Application for Identification and Ranking These Areas. *International Journal of Environmental Research and Public Health*, 19(3), 1115.
17. Sukaj, S., Bevilacqua, A., Ciaburro, G., Iannace, G., & Trematerra, A. (2021). Ottoman Mosques in Albania: Building Acoustic Exploration inside Five Case Studies. *Buildings*, 11(10), 430.
18. Iannace, G., Ciaburro, G., & Trematerra, A. (2021). Metamaterials acoustic barrier. *Applied Acoustics*, 181, 108172.
19. Sukaj, S., Berardi, U., Ciaburro, G., Iannace, G., Trematerra, A., & Bevilacqua, A. (2021, September). Two Albanian Mosques: the acoustics discovery inside prayer rooms. In *2021 Immersive and 3D Audio: from Architecture to Automotive (I3DA)* (pp. 1-6). IEEE.
20. Iannace, G., Puyana-Romero, V., & Ciaburro, G. (2021, August). Corn plants as temporary acoustic barrier to limit the effects of noise pollution. In *INTER-NOISE and NOISE-CON Congress and Conference Proceedings* (Vol. 263, No. 4, pp. 2164-2171). Institute of Noise Control Engineering.
21. Sukaj, S., Trematerra, A., Ciaburro, G., & Iannace, G. (2021, August). Use of masks inside the classrooms. In *INTER-NOISE and NOISE-CON Congress and Conference Proceedings* (Vol. 263, No. 2, pp. 4020-4027). Institute of Noise Control Engineering.
22. Ciaburro, G., Iannace, G., Trematerra, A., Lombardi, I., & Abeti, M. (2021). The acoustic characteristics of the “Dives in Misericordia” Church in Rome. *Building Acoustics*, 28(2), 197-206.
23. Iannace, G., Ciaburro, G., & Trematerra, A. (2021). Acoustical unmanned aerial vehicle detection in indoor scenarios using logistic regression model. *Building Acoustics*, 28(1), 77-96.
24. Ciaburro, G., Iannace, G., Puyana-Romero, V., & Trematerra, A. (2021). Machine Learning-Based Tools for Wind Turbine Acoustic Monitoring. *Applied Sciences*, 11(14), 6488.
25. Ciaburro, G., Iannace, G. (2021). Modeling acoustic metamaterials based on reused buttons using data fitting with neural network. *The Journal of the Acoustical Society of America* 150, 51-63. <https://doi.org/10.1121/10.0005479>

26. Ciaburro, G., Puyana-Romero, V., Iannace, G., & Jaramillo-Cevallos, W. A. (2021). Characterization and Modeling of Corn Stalk Fibers tied with Clay using Support Vector Regression Algorithms. *Journal of Natural Fibers*, 1-16.
27. Ciaburro, G. (2021). Recycled Materials for Sound Absorbing Applications. In *Materials Science Forum* (Vol. 1034, pp. 169-175). Trans Tech Publications Ltd.
28. Ciaburro, G., Iannace, G. (2021). Machine Learning-Based Algorithms to Knowledge Extraction from Time Series Data: A Review. *Data* 6, no. 6: 55.
29. Iannace, G., Ciaburro, G., & Trematerra, A. (2021). Metamaterials acoustic barrier. *Applied Acoustics*, 181, 108172.
30. Sukaj, S., Ciaburro, G., Iannace, G., Lombardi, I., & Trematerra, A. (2021). The Acoustics of the Benevento Roman Theatre. *Buildings*, 11(5), 212.
31. Sukaj S, Iannace G, Berardi U, Ciaburro G, Trematerra A. (2021) The Acoustics of the Cassino Roman Theatre. *Canadian Acoustics*.
32. Ciaburro, G., & Iannace, G. (2021). Acoustic Characterization of Rooms Using Reverberation Time Estimation Based on Supervised Learning Algorithm. *Applied Sciences*, 11(4), 1661.
33. Ciaburro, G., & Iannace, G. (2020). Numerical Simulation for the Sound Absorption Properties of Ceramic Resonators. *Fibers*, 8(12), 77.
34. Ciaburro, G., Iannace, G., Trematerra A., Lombardi I. (2020). Acoustic Design of Ancient Buildings: The Odea of Pompeii and Posillipo. *Buildings*, 10(12), 224.
35. Iannace, G., Ali, M., Berardi, U., Ciaburro, G., Alabdulkarem, A., Nuhait, A., & Al-Salem, K. (2020, October). Development and characterization of sound-absorbing materials produced from agricultural wastes in Saudi Arabia. In *INTER-NOISE and NOISE-CON Congress and Conference Proceedings* (Vol. 261, No. 5, pp. 1806-1812). Institute of Noise Control Engineering.
36. Iannace, G., Umberto, B., Luis, B. M., Ciaburro, G., & Puyana-Romero, V. (2020, October). Organic waste as absorbent materials. In *INTER-NOISE and NOISE-CON Congress and Conference Proceedings* (Vol. 261, No. 5, pp. 1821-1830). Institute of Noise Control Engineering.
37. Trematerra, A., Ciaburro, G., & Abeti, M. (2020, October). The acoustics of the "Montevergine" Abbey Church. In *INTER-NOISE and NOISE-CON Congress and Conference Proceedings* (Vol. 261, No. 5, pp. 1556-1565). Institute of Noise Control Engineering.
38. Iannace, G., Berardi, U., Ciaburro, G., & Trematerra, A. (2020, October). Egg cartons used as sound absorbing systems. In *INTER-NOISE and NOISE-CON Congress and Conference Proceedings* (Vol. 261, No. 6, pp. 405-412). Institute of Noise Control Engineering.
39. Berardi U., Ciaburro G., D'orazio D., Trematerra A. (2020). The evolution of the acoustics of a medieval church. *CANADIAN ACOUSTICS*, vol. 48, p. 14-16, ISSN: 0711-6659
40. Iannace G., Berardi U., Ciaburro G., D'orazio D., Trematerra A. (2020). Miniwind turbine noise measured inside near-by houses. *Canadian Acoustics*, vol. 48, p. 18-20, ISSN: 0711- 659
41. Ciaburro G., Berardi U., Iannace G., Trematerra A., Puyana-Romero V. (2020). The acoustics of ancient catacombs in Southern Italy. *Building Acoustics*, ISSN: 1351-010X, doi: 10.1177/1351010X20967571
42. Ciaburro, G., Iannace, G., Puyana-Romero, V., & Trematerra, A. (2020). A Comparison between Numerical Simulation Models for the Prediction of Acoustic Behavior of Giant Reeds Shredded. *Applied Sciences*, 10(19), 6881.
43. Ciaburro, G., Iannace, G., Passaro, J., Bifulco, A., Marano, D., Guida, M., ... & Branda, F. (2020). Artificial neural network-based models for predicting the sound absorption coefficient of electrospun poly (vinyl pyrrolidone)/silica composite. *Applied Acoustics*, 169, 107472.
44. Iannace, G., Ciaburro, G., & Trematerra, A. (2020). Modelling sound absorption properties of broom fibers using artificial neural networks. *Applied Acoustics*, 163, 107239.
45. Ciaburro, G. (2020). Sound Event Detection in Underground Parking Garage Using Convolutional Neural Network. *Big Data and Cognitive Computing*, 4(3), 20.

46. Ciaburro, G., & Iannace, G. (2020, September). Improving Smart Cities Safety Using Sound Events Detection Based on Deep Neural Network Algorithms. In *Informatics* (Vol. 7, No. 3, p. 23). Multidisciplinary Digital Publishing Institute.
47. Ciaburro, G., Iannace, G., Ali, M., Alabdulkarem, A., & Nuhait, A. (2020). An Artificial neural network approach to modelling absorbent asphalts acoustic properties. *Journal of King Saud University-Engineering Sciences*.
48. Ciaburro, G., Iannace, G., & Trematerra, A. (2020). Research for the Presence of Unmanned Aerial Vehicle inside Closed Environments with Acoustic Measurements. *Buildings*, 10(5), 96.
49. Iannace G, Ciaburro G. Modelling sound absorption properties for recycled polyethylene terephthalate-based material using Gaussian regression. *Building Acoustics*. June 2020.
50. Iannace, G., Ciaburro, G., & Trematerra, A. (2020). Using neural networks to detect wind turbine functioning conditions. *International Journal of Automation and Smart Technology*, 10(1), 145-152.
51. Iannace, G., Trematerra, A., & Ciaburro, G. (2020). Case study: Automated recognition of wind farm sound using artificial neural networks. *Noise Control Engineering Journal*, 68(2), 157-167.
52. Iannace, G., Ciaburro, G., Guerriero, L., & Trematerra, A. (2020). Use of cork sheets for room acoustic correction. *Journal of Green Building*, 15(2), 45-55.
53. Iannace, G., Ciaburro, G., & Trematerra, A. (2020). Video games noise exposure in teenagers and young adults. *Noise & Vibration Worldwide*, 51(1-2), 3-11.
54. Iannace, G., Berardi, U., Ciaburro, G., & Trematerra, A. (2019). Sound Attenuation of an Acoustic Barrier Made with Metamaterials. *Canadian Acoustics*, 47(4).
55. Iannace, G., Ciaburro, G., & Trematerra, A. (2019). Wind turbine noise prediction using random forest regression. *Machines*, 7(4), 69.
56. Iannace, G., Ciaburro, G. and Trematerra, A., 2019. Fault Diagnosis for UAV Blades Using Artificial Neural Network. *Robotics*, 8(3), p.59.
57. Iannace, G., Ciaburro, G., Trematerra, A. and Foglia, C., 2019. Acoustic Correction of a Renaissance Period Hall. *Canadian Acoustics*, 47(2), pp.57-66.
58. Iannace, G., Berardi, U., Rossi, F.D., Mazza, S., Trematerra, A. and Ciaburro, G., 2019. Acoustic Enhancement of a Modern Church. *Buildings*, 9(4), p.83.
59. Maffei, L., Masullo, M., Ciaburro, G., Toma, R.A. and Firat, H.B., 2019. Awaking the awareness of the movida noise on residents: measurements, experiments and modelling. In *Internoise 2019-Noise Control for a better environment* (pp. 1-10). International Institute Of Noise Control Engineering (I-Ince).
60. Puyana-Romero, V., Ciaburro, G., Brambilla, G., Garzón, C. and Maffei, L., 2019. Representation of the soundscape quality in urban areas through colours. *Noise Mapping*, 6(1), pp.8-21.
61. Iannace, G., Ciaburro, G. and Trematerra, A., 2019, March. Noise Exposure of PC Video Games Players. In *Audio Engineering Society Convention 146*. Audio Engineering Society.
62. Iannace, G., Ciaburro, G. and Trematerra, A., 2018. Heating, Ventilation, and Air Conditioning (HVAC) Noise Detection in Open-Plan Offices Using Recursive Partitioning. *Buildings*, 8(12), p.169.
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