

## Recent Selected Publications (2023-2025)

### Journal Papers:

- Wan-Ho Cho, Jihyun Lee, Chanbeom Kwak, Sunghwa You, Junghee Sagong, Do-Yun Kim, and Young Jo on Seo, "Field survey on the conformity of equipment and environment for audiometric test in South Korean hospital," *Critical Public Health*, vol. 35, 2507231, (2025).
- Dong Hwi Kim, HyunHee Kwon, Wan-Ho Cho, Miso Kim, "Zero Poisson's Ratio Metamaterial and Membrane-inspired Diaphragms for Enhancing Low-frequency Performance in Flat-panel Loudspeaker," *Thin-Walled Structures*, vol. 210, 112943, (2025).
- Hyunhee Kwon, Dong Hwi Kim, Wan-Ho Cho, Miso Kim, "Improved Flat Frequency Response of Conical Shellular Metamaterial Enabled Flat Panel Loudspeaker," *Advanced Materials Technologies*, 2401910, (2025). (featured as a Front Cover article)
- I. Jeong, B. Park, K. Park, A. Lee, I.-J. Jung, S. Lee, "Dual-port conditional invertible neural network for sound intensity compensation in sound source localization," *IEEE Transactions on Instrumentation and Measurement*, vol. 74, 2512312 (2025).
- B. C. F. Elmina, K. Baik, N. Yusof, N. M. Samiudin, I. Doh, Y. T. Kim, "Comprehensive evaluation of lens and planar circular ultrasonic transducer combinations to enhance C-scan imaging: a phantom study at 10 and 15 MHz," *Measurement Science and Technology*, Vol.36, 015438 (2025).
- Junhun Lee, Chul Young Yoon, Jiwon Kim, In-Ki Jin, Michelle J. Suh, Wan-Ho Cho, Hyo-Jeong Lee, Seong Jun Choi, Dongchul Cha, Kyung Ho Park, Soo Hee Oh, Young Joon Seo, and Tae Hoon Kong, "Part 1. Current Status of Hearing Loss Patients in Korea Using National Data: National Health Insurance Service-Database, 2010 to 2020," *Korean J Otorhinolaryngol-Head Neck Surgery*, Vol. 68(1), pp. 7-18, (2025), Invited Special Review by Korean Audiological Society.
- Junhun Lee, Chul Young Yoon, Jiwon Kim, In-Ki Jin, Michelle J. Suh, Wan-Ho Cho, Hyo-Jeong Lee, Seong Jun Choi, Dongchul Cha, Kyung Ho Park, Soo Hee Oh, Young Joon Seo, and Tae Hoon Kong, "Part 2. Current Status of Hearing Disability and Hearing Rehabilitation Devices in Korea Using National Data: N HIS-Database, 2010 to 2020," *Korean J Otorhinolaryngol-Head Neck Surgery*, Vol. 68(3), pp. 94-104, (2025), Invited Special Review by Korean Audiological Society.
- Junhun Lee, Chul Young Yoon, Jiwon Kim, In-Ki Jin, Michelle J. Suh, Wan-Ho Cho, Hyo-Jeong Lee, Seong Jun Choi, Dongchul Cha, Kyung Ho Park, Soo Hee Oh, Young Joon Seo, and Tae Hoon Kong, "Part 3. Research on Analyzing the Current Status and Problems of Implantable Hearing Devices in Patients With Severe Hearing Loss for Hearing Rehabilitation Guidelines in Korea," Accepted to *Korean J Otorhinolaryngol-Head Neck Surgery*, (2025), Invited Special Review by Korean Audiological Society.
- I.-J. Jung, W.-H. Cho, "Single channel sound source localization by using combinations of multiple tubes," *Applied Acoustics*, vol.224, 110116 (2024).
- H. J. Lee, W. Choi, I.-J. Jung, W.-H. Cho, H. M. Seung, M. Kim, "Finite elastic metasurface attachment for flexural vibration amplification," *Mechanical Systems and Signal Processing*, vol. 208, 110996 (2024).
- I.-J. Jung, W.-H. Cho, "A novel visual representation method for multi-dimensional sound scene analysis in source localization problem," *Mechanical Systems and Signal Processing*, vol. 208, 110977 (2024).
- I.-J. Jung, W.-H. Cho, J.-G. Ih, "A method for localization of multiple drones using the acoustic characteristic of the quadcopter," *The Journal of Acoustical Society of Korea*, vol. 43(3), pp.351-360 (2024).
- I. Jeong, H. Huh, I.-J. Jung, S. Lee, "Deep learning-based approach to improve the accuracy of time difference of arrival-based sound source localization," *The Journal of Acoustical Society of Korea*, vol. 43(2), pp. 178-183 (2024).
- I. Jeong, I.-J. Jung, S. Lee, "Application of deep learning for accurate source localization using sound intensity vector," *The Journal of Acoustical Society of Korea*, vol. 43(1), pp.72-77 (2024)
- K. Baik, J. Lee, B. C. F. Elmina, Y. T. Kim, "Calculation of the ultrasonic radiation force acting on a rigid circular cone and the study on the metrology for the acoustic power measurement," *The Journal of the Acoustical Society of Korea*, Vol. 43(3), pp. 335-343 (2024).

- In-Ki Jin, Donghyeok Lee, Youngchan Jeong, Young Jun Seo, Tae Hoon Kong, Michelle J Suh, Wan-Ho Cho, Hyo-Jeong Lee, Seong Jun Choi, Dongchul Cha, Kyung-Ho Park, Soo Hee Oh\*, "Trends in Distributions of Hearing Threshold Levels by Ages: A Comparison of the ISO 7029 and Newly Available Country-Specific Data," *Journal of Audiology and Otology*, Vol. 28, pp. 1-9, (2024).
- Jae-Gap Suh and Wan-Ho Cho\*, "Development of the calibration procedure of the reference sound source and case study on the uncertainty evaluation," *Journal of the Acoustical Society of Korea*, Vol. 43 (3), pp. 344-350, (2024) (in Korean).
- In-Jee Jung\*, Wan-Ho Cho, and Jeong-Guon Ih, "A method for localization of multiple drones using the acoustic characteristic of the quadcopter," *Journal of the Acoustical Society of Korea*, Vol. 43 (3), pp. 351-360, (2024) (in Korean).
- Wan-Ho Cho, Jihyun Lee, Young Joon Seo, Tae Hoon Kong\*, Michelle J. Suh, In-Ki Jin, Soo Hee Oh, Hyo-Jeong Lee, Seong Jun Choi, Kyung-Ho Park, Dongchul Cha, "Improving Accuracy and Reliability of Hearing Tests: Measurement Standards for Audiometric Devices," *Journal of Audiology and Otology*, Vol. 28, pp. 167-175, (2024).
- Chanbeom Kwak, Yuseon Byun, Sunghwa You, Junghee Sagong, Do-Yun Kim, Wan-Ho Cho, Tae Hoon Kong, Soo Hee Oh, In-Ki Jin, Michelle J. Suh, Hyo-Jeong Lee, Seong Jun Choi, Dongchul Cha, Kyung-Ho Park, and Young Joon Seo, "Understanding Standard Procedure in Auditory Brainstem Response: Importance of Normative Data," *Journal of Audiology and Otology*, Vol. 28, pp. 243-251, (2024).
- Wan-Ho Cho, Jiho Chang, Ookjin Jung, Agustinus Oey, Yong-Hyun Kim, Inkwon Kim, and Youngkey Kim, "Investigation of Signal Characteristics of Airborne Ultrasounds to Obtain Detailed Information Regarding Abnormality Detection," *Journal of the Korean Society for Nondestructive Testing*, Vol. 44, pp. 336-343, (2024).
- S.-H. Go, Y.-G. Chae, S.-J. Chae, E.-J. Kim, H.-M. Yu, W.-H. Cho and S. Nahm, Piezoelectric properties of [001]-textured (K, Na)(Nb, Sb)O<sub>3</sub>-CaZrO<sub>3</sub>-(Ag, Bi)ZrO<sub>3</sub> ceramics and their application in panel loudspeakers, *Journal of Alloys and Compounds*, Vol. 968, 17195 (2023).
- J. Lee, W.-H. Cho, T. H. Kong, S.-S. Jung, W. Han, S. Park and Y. J. Seo, Contralateral bone conducted sound wave propagation on the skull bones in fresh frozen cadaver, *Scientific Reports*, Vol. 13, 7479, (2023).
- S. Y. Lee, C.-S. Park, K. Park, H. J. Lee, S. Lee, A Physics-informed and data-driven deep learning approach for wave propagation and its scattering characteristics, *Engineering with Computers*, Vol. 39, pp. 2609–2625 (2023).
- Michelle J. Suh, Jihyun Lee, Wan-Ho Cho, In-Ki Jin, Tae Hoon Kong, Soo Hee Oh, Hyo-Jeong Lee, Seong Jun Choi, Dongchul Cha, Kyung-Ho Park, and Young Jun Seo, "Improving Accuracy and Reliability of Hearing Tests: An Exploration of International Standards," *Journal of Audiology and Otology*, Vol. 27, pp. 169-180, (2023).