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Dissertations

Postgraduate, 3D PERCEPTUAL SOUNDFIELD RECONSTRUCTION VIA SOUND FIELD EXTRAPOLATION, Middle East Technical University, Graduate School of Informatics, 2020

Research Areas

Computer Sciences, Electrical and Electronics Engineering, Mechanical Engineering, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Middle East Technical University, Graduate School of Informatics, Modeling and Simulation, 2019 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **3D Perceptual Soundfield Reconstruction via Virtual Microphone Synthesis**
ERDEM E., Cvetkovic Z., Hachabiboglu H.
IEEE/ACM Transactions on Audio Speech and Language Processing, vol.31, pp.1305-1317, 2023 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Sound field interpolation via sparse plane wave decomposition for 6DoF immersive audio**
Olgun O., Erdem E., Hacıhabiboğlu H.
2023 Immersive and 3D Audio: from Architecture to Automotive (I3DA), Bologna, Italy, 5 - 07 September 2023, pp.1-11
- II. **Rotation Calibration of Rigid Spherical Microphone Arrays for Multi-perspective 6DoF Audio Recordings**
Olgun O., ERDEM E., HACIHABİBOĞLU H.
2021 Immersive and 3D Audio: from Architecture to Automotive (I3DA), Bologna, Italy, 08 September 2021
- III. **INTERNAL TIME DELAY CALIBRATION OF RIGID SPHERICAL MICROPHONE ARRAYS FOR MULTI-**

PERSPECTIVE 6DOF AUDIO RECORDINGS

ERDEM E., Olgun O., HACIHABİBOĞLU H.

IEEE Workshop on Applications of Signal Processing to Audio and Acoustics (WASPAA), New York, United States Of America, 17 - 20 October 2021, pp.241-245

IV. Yeraltı Metro İstasyonlarında Akustik Tasarım ve Analiz Yöntemleri

Meriç Nursal I., Eşmebaşı M., ERDEM E., SÜ GÜL Z.

Türk Akustik Derneği (TAKDER) 13. Ulusal Akustik Kongresi, Diyarbakır, Turkey, 17 - 18 October 2019

V. Soğutma Grubu Gürültüsü için Gürültü Bariyeri Tasarımı

ERDEM E., SÜ GÜL Z., Çalışkan M.

Türk Akustik Derneği (TAKDER) 13. Ulusal Akustik Kongresi, Diyarbakır, Turkey, 17 - 18 October 2019

VI. PERCEPTUAL SOUNDFIELD RECONSTRUCTION IN THREE DIMENSIONS VIA SOUND FIELD EXTRAPOLATION

Erdem E., De Sena E., HACIHABİBOĞLU H., Cvetkovic Z.

44th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Brighton, United Kingdom, 12 - 17 May 2019, pp.8023-8027

Metrics

Publication: 7

Citation (WoS): 8

Citation (Scopus): 12

H-Index (WoS): 2

H-Index (Scopus): 3