

# **Publication List**

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## 1. Journals

- [1] A. Czyżewski, B. Kostek, **S. ZIELIŃSKI**, *Synthesis of Organ Pipe Sound Based on Simplified Physical Models*. Archives of Acoustics, Vol. 21, No. 2, pp. 131-147, 1996.
- [2] **S. ZIELIŃSKI**, F. Rumsey, S. Bech. *Effects of bandwidth limitation on audio quality in consumer multichannel audio-visual delivery systems*. Journal of the Audio Engineering Society. Vol. 51, 6, pp. 475–501, 2003.
- [3] **S. ZIELIŃSKI**, F. Rumsey, S. Bech. *Effects of down-mix algorithms on quality of surround sound*. Journal of the Audio Engineering Society. Vol. 51, 9, pp. 780-798, 2003.
- [4] **S. ZIELIŃSKI**, F. Rumsey, R. Kassier, S. Bech. *Development and Initial Validation of a Multichannel Audio Quality Expert System*. Journal of the Audio Engineering Society. Vol. 53, 1/2, pp. 4-21, January/February, 2005.
- [5] **S. ZIELIŃSKI**, F. Rumsey, R. Kassier, S. Bech. *Comparison of Basic Audio Quality and Timbral and Spatial Fidelity Changes Caused by Limitation of Bandwidth and by Down-mix Algorithms in 5.1 Surround Audio Systems*. Journal of the Audio Engineering Society. Vol 53, 3, pp. 174-192, March, 2005.
- [6] F. Rumsey, **S. ZIELIŃSKI**, R. Kassier, S. Bech. *Relationships between experienced listener ratings of multichannel audio quality and naïve listener preferences*. Journal of the Acoustical Society of America. Vol. 117, 6, pp. 3832-3840, June, 2005.
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- [10] Y. Jiao, **S. ZIELIŃSKI**, F. Rumsey. *Hierarchical Bandwidth Limitation of Surround Sound. Part I: Psychoacoustically Hierarchical Transform*. Journal of the Audio Engineering Society. Vol. 56, 12, pp. 1057-1068, December, 2008.
- [11] Y. Jiao, **S. ZIELIŃSKI**, F. Rumsey. *Hierarchical Bandwidth Limitation of Surround Sound. Part II: Optimisation of Bandwidth Allocation Strategy*. Journal of the Audio Engineering Society. Vol. 57, 1/2, pp. 5-15, January/February, 2009.
- [12] S. George, **S. ZIELIŃSKI**, F. Rumsey, P. Jackson, R. Conetta, M. Dewhirst, D. Meares, S. Bech. *Development and Validation of an Unintrusive Model for Predicting the Sensation of Envelopment Arising from Surround Sound Recordings*. Journal of the Audio Engineering Society. Vol. 58, 12, pp. 1013-1031, December, 2010.

- [13] R. Conetta, T. Brookes, F. Rumsey, **S. ZIELIŃSKI**, M. Dewhurst, P. Jackson, S. Bech, D. Meares, S. George, *Spatial Audio Quality Perception (Part 1): Impact of Commonly Encountered Processes*. Journal of the Audio Engineering Society. Vol. 62, 12, pp. 831-846, December, 2014.
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- [16] **S. ZIELIŃSKI**, *On Some Biases Encountered in Modern Audio Quality Listening Tests (Part 2): Selected Graphical Examples and Discussion*, Vol. 64, 1/2, pp. 55-74, January/February, 2016.
- [17] M. Matocha, **S.K. ZIELIŃSKI**, *Music genre recognition using convolutional neural networks*, Advances in Computer Science Research, Vol. 14, pp. 125-142, 2018.
- [18] **S.K. ZIELIŃSKI**, H. Lee, *Automatic Spatial Audio Scene Classification in Binaural Recordings of Music*, Applied Sciences, Vol. 9, Issue 9, 1724, 2019.
- [19] **S.K. ZIELIŃSKI**, H. Lee, P. Antoniuk, O. Dadan, *A Comparison of Human against Machine-Classification of Spatial Audio Scenes in Binaural Recordings of Music*, Applied Sciences, Vol. 10, Issue 17, 5956, 2020.

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## Patent

F. Rumsey, **S. ZIELIŃSKI**, P. Jackson, M. Dewhirst, R. Conetta, S. George, S. Bech, D. Meares, B. Supper, *System, devices and methods for predicting the perceived spatial quality of sound processing and reproducing equipment*, Patent No. US 8238563 B2, USA, 2012, <http://www.google.com/patents/US8238563>