

Outline Intro Schroeder reverb and delay networks Convolution algorithms • Modal reverberation architecture Velvet noise based reverberation algorithms • Scattering delay networks & Waveguide web • Main references for this talk: ✓ V. Välimäki, J. D. Parker, L. Savioja, J. O. Smith, and J. S. Abel, "Fifty years of artificial reverberation," IEEE Trans. Audio, Speech, and Language Processing, vol. 20, no. 5, pp. 1421–1448, July 2012. ✓ V. Välimäki, J. D. Parker, L. Savioja, J. O. Smith, and J. S. Abel, "More than 50 years of artificial reverberation," in Proc. AES DREAMS Conference, Leuven, Belgium, Feb. 2016. Aalto University School of Electrical Engineering © Vesa Välimäki January 22, 2019





































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