Human Hearing
Machine Restoration

Auditory Perception, Spectral Priors and the ENOSH Hybrid Architecture for Legacy Film Audio



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ACOUSTICS & SOUND ENGINEERING

Human Hearing, Machine Restoration

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PUBLISHER
ENOSH Science Publisher

SERIES
Acoustics & Sound Engineering

FORMAT
Digital PDF

PAGES
170

YEAR
2026

DOI
10.66661/ENOSH.BOOK.2026.015

About the Book

How can machines learn from the human auditory system to restore damaged sound while preserving the details that matter? This book connects acoustics, cochlear mechanics and auditory masking with spectral estimation and Transformer-based restoration, and examines how the ENOSH hybrid architecture addresses noise, distortion and degradation in historical film soundtracks. It combines established science with engineering practice in the service of preserving the sound of cinematic history.

Cite as: Ibrahim El Noshokaty (2026). Human Hearing, Machine Restoration — Auditory Perception, Spectral Priors and the ENOSH Hybrid Architecture for Legacy Film Audio. ENOSH Science Publisher. **https://doi.org/10.66661/ENOSH.BOOK.2026.015**

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The complete book is available from ENOSH Science Publisher.