List of Publications (Peer-Reviewed)

○ A Virtual Tube Delay Effect.
Simionato Riccardo, Liski Juho, Välimäki, Vesa, & Avanzini Federico. In: *Proceedings of the 21th International Conference on Digital Audio Effects (DAFx18), Aveiro, Portugal.*

○ A Transformer and LSTM models for automatic counterpoint generation using raw audio.
Bentsen Lars Ødegaard & **Simionato Riccardo** & Wallace Benedikte & Krzyzaniak, Michael Joseph. In: *Proceedings of the 17th Sound and Music Computing Conference (SMC22), Saint-Étienne, France*, doi: `10.5281/zenodo.6572847`.

○ Deep Learning Conditioned Modeling of Optical Compression.
Simionato Riccardo & Fasciani Stefano. In: *Proceedings of the 25th International Conference on Digital Audio Effects (DAFx20in22), Vienna, Austria.* `https://dafx2020.mdw.ac.at/proceedings/papers/DAFx20in22_paper_6.pdf`

○ Fully Conditioned and Low-latency Black-box Modeling of Analog Compression.
Simionato Riccardo & Fasciani Stefano. In: *Proceedings of the 26th International Conference on Digital Audio Effects (DAFx20in23), Copenaghen, Denmark.* `https://www.dafx.de/paper-archive/2023/DAFx23_paper_10.pdf`

○ A Comparative Computational Approach to Piano Modeling Analysis.
Simionato Riccardo & Fasciani Stefano. In: *Proceedings of the Sound and Music Computing Conference (SMC23), Stockholm, Sweden*, doi: `10.5281/zenodo.10061285`.

○ Conditioning Methods for Neural Audio Effects.
Simionato Riccardo & Fasciani Stefano. In: *Proceedings of the 19th Sound and Music Computing Conference (SMC24), Porto, Portugal*, doi: `10.5281/zenodo.14361772`.

○ Hybrid Neural Audio Effects.
Simionato Riccardo & Fasciani Stefano. In: *Proceedings of the 19th Sound and Music Computing Conference (SMC24), Porto, Portugal*, doi: `10.5281/zenodo.14361818`.

○ A Universal Tool for Generating Datasets from Audio Effects.
Fasciani Stefano & **Simionato Riccardo** & Tidemann Aleksander. In: *Proceedings of the 19th Sound and Music Computing Conference (SMC24), Porto, Portugal*, doi: `10.5281/zenodo.14362474`.

○ Physics-informed Differentiable Method for Piano Modeling.
Simionato Riccardo & Fasciani Stefano & Holm Sverre. In: *Frontiers in Signal Processing, volume 3, 2024*, doi: `10.3389/frsip.2023.1276748`.

○ Comparative Study of State-based Neural Networks for Virtual Analog Audio Effects Modeling.
Simionato Riccardo & Fasciani Stefano. *EURASIP Journal on Audio, Speech, and Music Processing, 2025*, doi: `10.1186/s13636-025-00416-3`.

○ Modeling Time-Variant Responses of Optical Compressors with Selective State Space Models.
Simionato Riccardo & Fasciani Stefano. In: *Journal of Audio Engineering Society, vol. 73, no. 3, p. 144–165, 2025.* `https://aes2.org/publications/elibrary-page/?id=22808`

○ Sine, Transient, Noise Neural Modeling of Piano Notes.
Simionato Riccardo & Fasciani Stefano. In: *Frontiers in Signal Processing, volume 3, 2025*, doi: `10.3389/frsip.2024.1494864`.

○ Neural Sampled-based Piano Synthesis.
Simionato Riccardo & Fasciani Stefano. *Proceedings of the 28th International Conference on Digital Audio Effects (DAFx25), Ancona, Italy.* `https://dafx25.dii.univpm.it/wp-content/uploads/2025/09/DAFx25_paper_32.pdf`

○ Towards Neural Emulation of Voltage-Controlled Oscillators.
Simionato Riccardo & Fasciani Stefano. *Proceedings of the 28th International Conference on Digital Audio Effects (DAFx25), Ancona, Italy.* `https://dafx.de/paper-archive/2025/DAFx25_paper_33.pdf`

○ Compressing Neural Network Models of Audio Distortion Effects Using Knowledge Distillation Techniques.
Simionato Riccardo & Aleksander Tidemann. *Proceedings of the AES International Conference on Artificial Intelligence and Machine Learning for Audio, London, UK.*