

Student research project/thesis

Detection and classification of birds' vocalisations in urban scenes

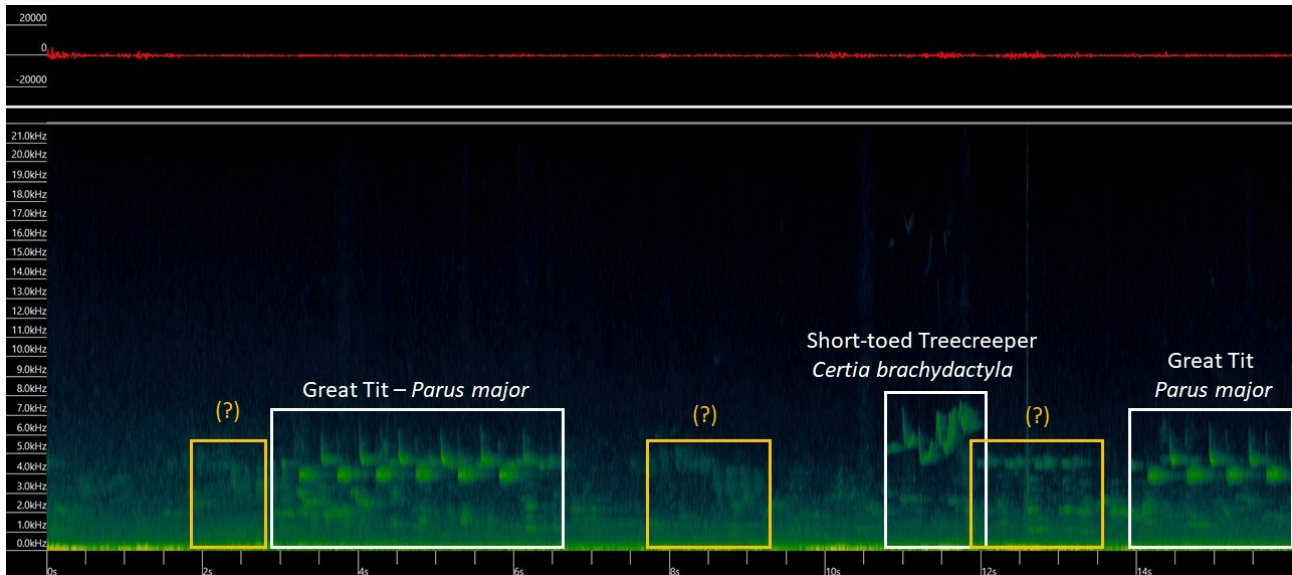


Figure 1 – Detection of bird species using AI (Engel et al., 2023)

Urban soundscapes are composed of wanted and unwanted sounds. Wanted sounds are usually related to natural sources, such as animals, water, wind, etc. Birds' vocalisations are the most representative natural sounds in a sonic environment. Their detection and classification can occur through different methods, e.g. signal-to-noise ratio, template-matching, and deep learning. This study aims to verify the accuracy and abundance of bird species detection and classification in urban scenes from Dresden through different methods. This critical step will help construct urban scenes for soundscape studies.

If you are interested in the development of this project, please get in touch.

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