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Music information retrieval with nonlinear time series analysis and complex networks

The application of concepts from nonlinear and network science to real-word data has proven useful for the understanding of the structure and dynamics of the underlying complex systems. Within the field of music information retrieval, there is a wide range of applications and tasks for which both frameworks can bring new insights. Do networks derived from songs of different composers differ? How do we develop better stochastic algorithms to generate music imitating a specific style? How can nonlinear time series analysis help in the task of singing voice identification? Individual projects will address these and many other interesting questions and develop strategies to connect the different areas of research.