

ACOUSTICS, PSYCHOACOUSTIC AND MUSIC COGNITION

(streda, 09:05-10:35, miestnosť č. 308; P)

1. Introduction and fundamentals
2. The physics of sound
3. Physiology: ear and brain
4. Pitch
5. Loudness
6. Timbre
7. Melody and rhythm
8. Harmony
9. Consonance and dissonance
10. Tonality
11. Gestalt theory and categorical perception
12. Auditory scene analysis

MUSIC STRUCTURE, EXPRESSION AND EMOTION

(streda, 10:50-12:20, miestnosť č. 308; P)

1. Systematic musicology: an overview
2. Qualitative and quantitative research methods in systematic musicology
3. Models for music structure
4. An accent-based approach to music analysis
5. Models for music performance and expression
6. A computer model of immanent accent salience in tonal music (*Director Musices*)
7. Analysis of piano performances (MIR toolboxes, Sonic Visualizer, CQT-transform, perceptual-based studies)
8. Models for music emotion
9. Relationship between immanent emotion, associations and musical structure: A systematic approach
10. Listeners' informal vocabulary for structure, expression, emotions and associations in piano music²
11. Musical gesture and embodied cognition
12. How can music analysis, interpretation and technology work together? Two case-studies in post-tonal music: Messiaen piano Preludes and 'Solo' by Karlheinz Stockhausen