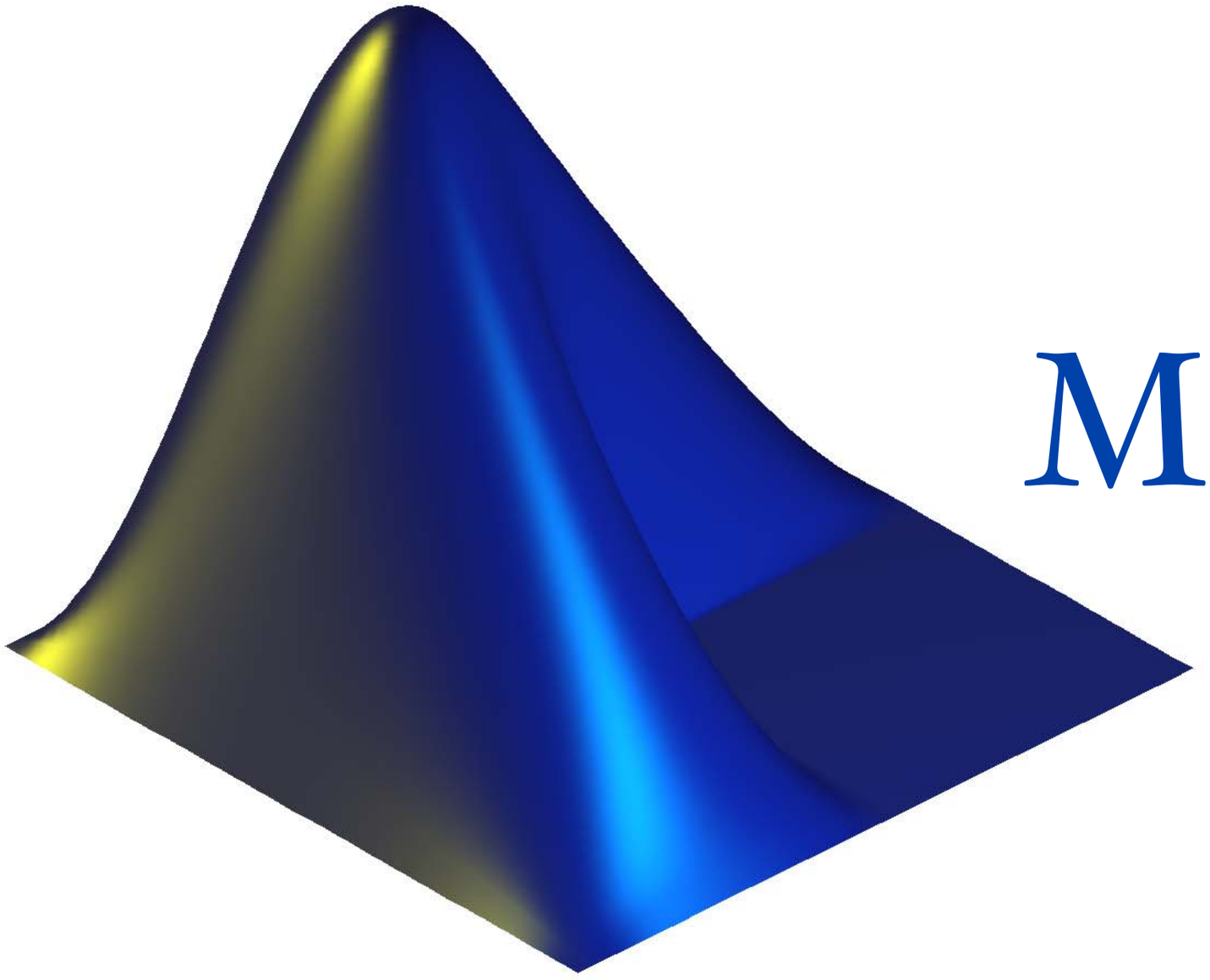
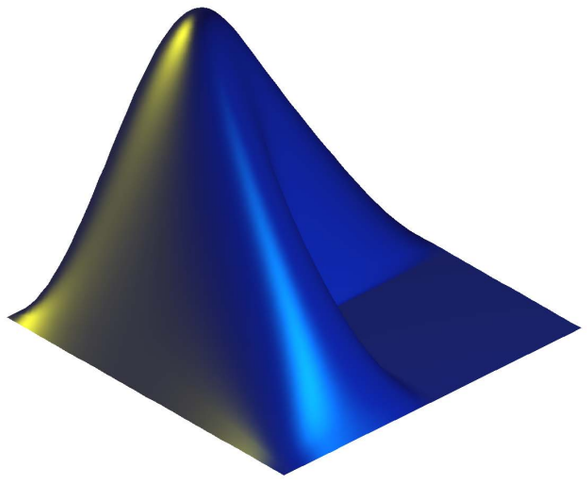
UiO : RITMO Centre for Interdisciplinary Studies in Rhythm, Time and Motion
University of Oslo



MiningSuite

http://bit.ly/miningsuite

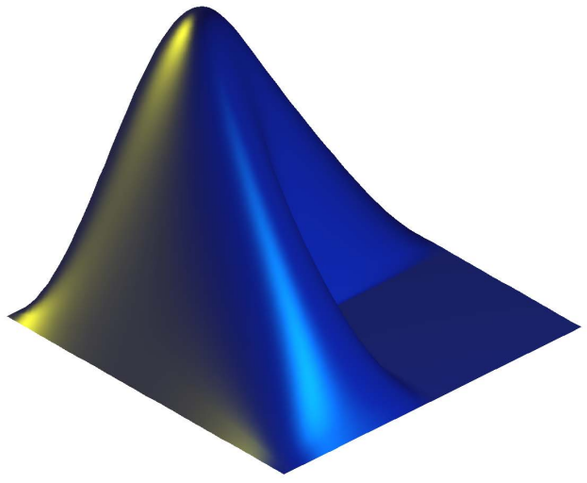
Olivier Lartillot



MiningSuite

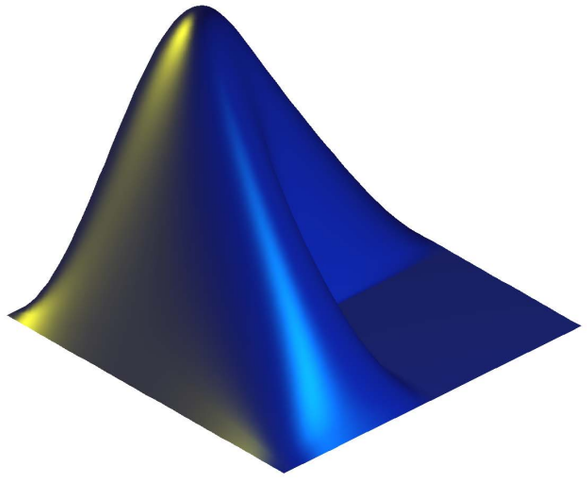
- Complete redesign, extension, of ***MIRtoolbox***

- *MIRtoolbox* focused on audio-based Music Information Retrieval
- Very easy to use
- Powerful modularity: Enables to design and perform complex analyses easily.
- Free, open-source
- Reference tool in the MIR community
    - 10000s of users around the world, 1000+ citations



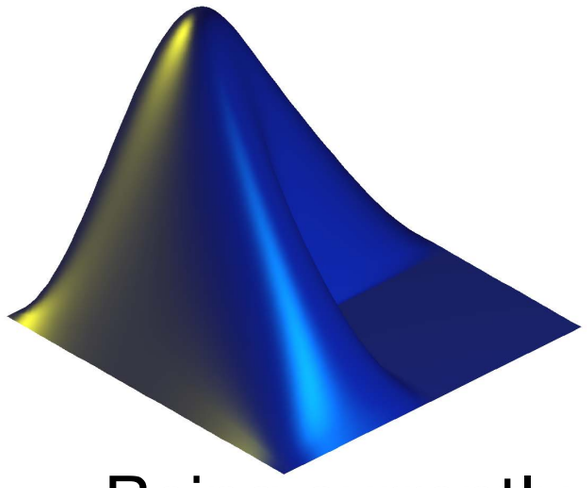
MiningSuite

- Extensive suite of tools to analyse signals, audio recordings, music, gestures, etc.
- Common framework to analyse multiple modalities together
- Simpler architecture, simpler code
  - Additional layer of syntax enabling to write simple code
- Open-source, shared GitHub repository



MiningSuite

- SIGMINR: signal processing
- AUDMINR: audio, auditory modelling
- MUSMINR: music analysis
- VOCMINR: voice analysis
- VIDMINR: video analysis
- PHYMINR: motion, physics
- PSYMINR: brain imaging



PHYMINR

- Being currently integrated to the MiningSuite GitHub repository
- Ongoing research topics:
    - Comparison music / mocap
        - Crossmodal cross-correlation
        - Audio being itself multichannel (filterbank decomposition)
    - Analysis of multidimensional multimodal data
        - Periodicity analysis
        - Dimension reduction

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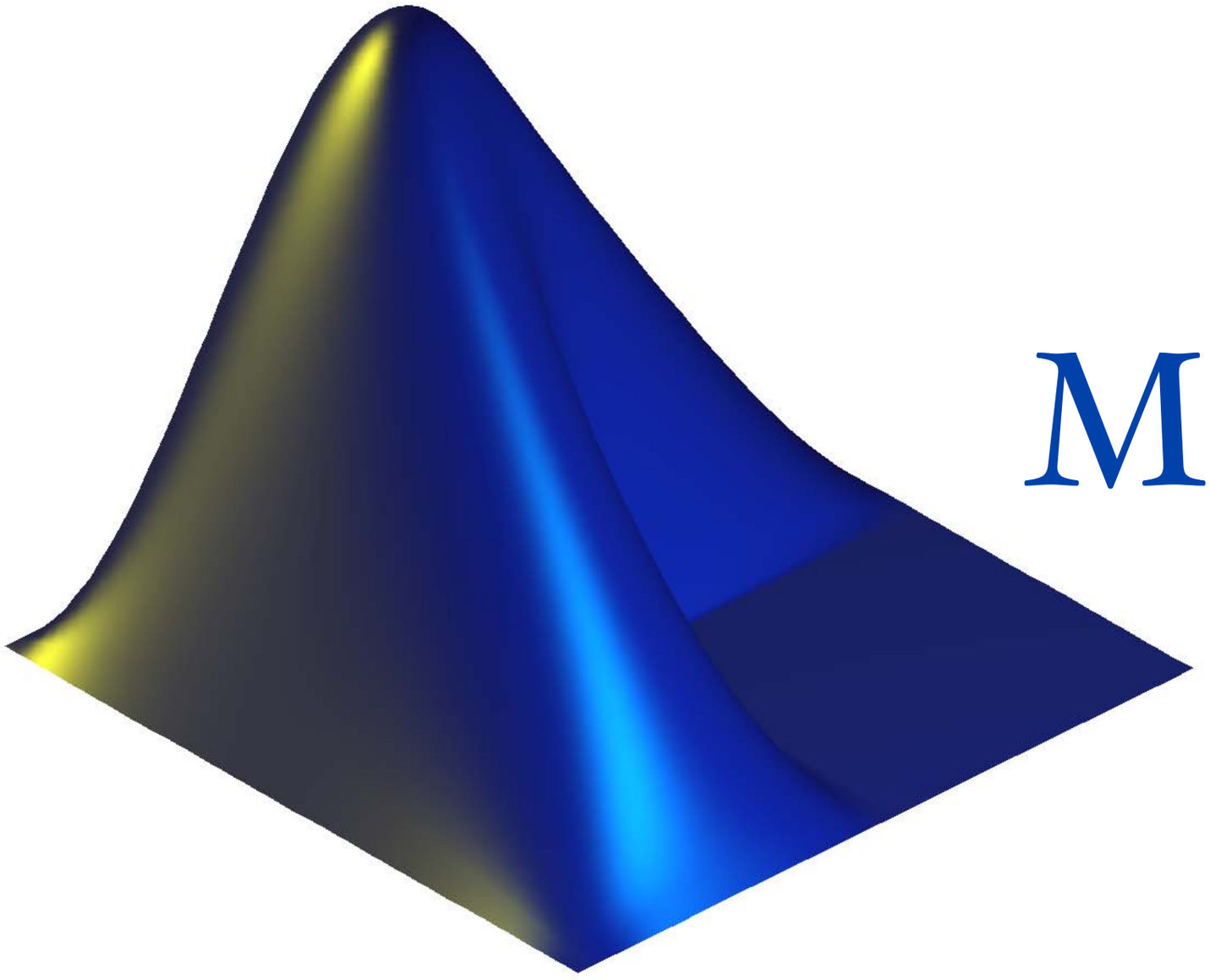

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