



# IAMM ISfAM

The Future of Music and Arts in Medicine and Health  
**BERLIN, GERMANY - SEPTEMBER 18-21, 2024**



## Certificate of Attendance

presented to

**Ivan Moría**

for attending the congress

**“The Future of Music and Arts in Medicine and Health”**

September 18-21, 2024 in Berlin.

And for presenting the papers with the title:

“The use of MIDI data for music therapy research”

and

“Music therapeutical perspective on social cognition and music:  
interactive musical improvisation”

Congress administration

*Margit See*





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The Future of Music and Arts in Medicine and Health  
BERLIN, GERMANY - SEPTEMBER 18-21, 2024



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We herewith confirm the receipt of the payment.

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Best regards



## Researching ways to extract precise results

- Music Information Retrieval (MIR):

Focuses on the development of efficient and effective methods and technology for extracting useful information from music data.

Many MIR approaches have focused on the analysis of audio signals, but visualizations can also be obtained from other time series data, such as MIDI and motion data (Agres et al., 2022).

- Musical Instrument Digital Interface (MIDI):

There are MIDI drum pads, wind controllers, guitar, and other string controllers, as well as pitch-to-MIDI conversion systems designed to take input from a microphone and convert the signal into MIDI information (Clarke, 2004).

- Music Therapy Toolbox (MTTB):

Analyzes MIDI data from music therapy improvisation for quantitative analysis. However, it uses expensive software such as MATLAB (MathWorks Inc.), which is mainly inaccessible to most music therapists who usually do not have technical training in these tools (Clarke, 2007).





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# Ivan Moriá Borges

