

Artificial intelligence may be used to reveal secrets behind traditional folk music dating back thousands of years

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Conservatoire Folk Ensemble, led by Joe Broughton.
Credit: Birmingham City University

The secrets behind traditional folk music from across the globe and dating back thousands of years are likely to be revealed by using artificial intelligence, according to a leading academic expert.

Speaking at Folk Music Analysis UK, a three-day event showcasing cutting edge technological research methods and findings using ethnomusicology and [computational analysis](#) at Birmingham City University, Dr. Islah Ali-MacLachlan highlighted advances in the field which now allow for greater understanding of the cultural data embedded in folk music.

The senior lecturer in audio engineering and acoustics said, "In this era of streaming, music discovery, digitization and algorithms, one of the last bastions of music to be extensively and accurately mapped as well as understood is

traditional folk music from across the globe. Sounds that have taken hundreds, if not thousands, of years to evolve, are full of human, cultural, religious, societal and geographical intricacies that we will benefit from understanding. The Folk Music Analysis workshop is a chance to discuss worldwide folk music traditions and the tools we use to extract information about them."

Twenty-six papers were presented at the event covering a varied range of subjects including a [case study](#) on south Iranian bagpipe music; comparisons of human music, speech and bird song; multimedia recordings of traditional Georgian vocal music; visualization of Hindustani classical music, and the importance of "the beat" for tango dancers.

Tempo, timbre, step changes in melody, pitch, rhythm and other elements of song and music combined with [different approaches](#) to capturing sound through [field research](#) are all markers that researchers and machine learning—a form of [artificial intelligence](#) (AI) – use to define the origin, formation, history and lineage of a particular style of music.

Dr. Ali-MacLachlan said, "Computer analysis is often able to make links that are difficult to hear but offer an insight into [music](#) from the past or how traditions have changed. Imagine being able to understand how a musician from 200 years ago would play a piece that was written last week, or understanding how Scottish, Irish and African styles eventually transformed into Bluegrass. Computational ethnomusicologists are working on tools that will provide the answers to these questions, and many more."

Provided by Birmingham City University

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