



Mathematics and Computation in Music

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Deadline for manuscript
submissions:

closed (15 February 2024)

Message from the Guest Editor

The relationship between music and mathematics has been investigated since the dawn of western culture, starting from the thought of the Pythagorean philosophers, deeply influencing the medieval, baroque, and renaissance contrapuntal processes, through the serial music of the twentieth century. In more recent times, the development of mathematical thinking and the advent of computational approaches have profoundly changed the way music is written, analyzed, and performed.

Through this Special Issue, we invite our colleagues to present the most advanced research results and cutting-edge technologies dealing with mathematics and computation in music. Both theoretical and experimental works describing mathematical ideas, methods, techniques, and results are welcome.

The fields of interest include (but are not limited to) mathematical music theory, mathematical approaches to understanding musical objects, computer-based methodologies for composition and score analysis, models for music cognition, and formalisms for the representation of music information, probability, and statistics in musical analysis and composition.





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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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