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Machine Understanding of Music and Sound

Guest Editor:

Dr. Patrick Donnelly
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Deadline for manuscript submissions:
closed (30 June 2022)

Message from the Guest Editor

Dear Colleagues,

In a world interconnected by accessible data and smart applications, the need for intelligent methods to understand music and sound continues to grow. From computational musicology to music information retrieval, and from emotion recognition to bioacoustic understanding, data-driven algorithms are increasingly employed to analyze, interpret, and generate sound.

While new advances in theoretical machine learning continue to be applied to attempt to answer research questions in the domain of non-speech audio, many challenges remain. Some of these challenges include the limited availability of annotated data, complications in the presence of noise, poor generalizability between data sets, difficulties interpreting trained neural network models, and the absence of performance metrics to evaluate creative endeavors.

This Special Issue on “Machine Understanding of Music and Sound” calls for manuscripts proposing novel machine learning and deep learning methods, approaches, and applications that advance a computational understanding of music and sound.

Dr. Patrick Donnelly
Guest Editor

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Editor-in-Chief

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Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

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