Special Issue

Recent Trends in Time-Frequency Signal Analysis: Sustainable Applications and Systems

Message from the Guest Editors

TF-analysis-based and S/SF-analysis-based approaches are widely adopted because they provide accurate and robust solutions in the processing of nonstationary signals encountered in numerous fields, including radar, speech, seismology, communications, medicine, biomedicine, optics, civil engineering, power systems, high-rate dynamic systems etc. Sustainable TF/S/SF applications imply fast, accurate and robust solutions, while preserving runtime, memory usage, and energy consumption at low levels. Further development of advanced methods and algorithms of TF/S/SF analysis can help in facilitating the development of new sustainable applications in practice. The execution time of TF-analysis- and S/SF-analysis-based solutions is critical, since they entail repeated computations in a great number of TF/S/SF points. This computation overload limits the applicability of those solutions in practice. Hardware implementations can significantly help in overcoming this limitation. Therefore, the development of sustainable systems that implement TF/S/SF-analysis-based solutions on proper hardware platforms, in as green programming languages as possible, is of paramount importance.

Guest Editors

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Deadline for manuscript submissions

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Editor-in-Chief

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