【TARA セミナー開催報告】

日時：１/１０（木）14:00～15:00
講師：Laurent Daudet
　　Paris Diderot University, France
題目：How to (compressively) sample an acoustic field ?
場所：生命領域学際研究センターA棟２階セミナー室

概要:

There are a number of applications where one wishes to know the acoustic field within a whole spatial domain, while in most cases, we can only make point measurements (ie, with microphones). Even with few sources, this remains a difficult problem because of the reverberation, which can be difficult to characterize. This can be seen as a sampling / interpolation problem, which raises a number of interesting questions: how many sample points are needed, where to choose the sampling points, etc. In this presentation, we will review some case studies, in 2D (vibrating plates) and 3D (room acoustics), with numerical and experimental data, where we have developed sparse models, possibly with additional 'structures', based on a physical modeling of the acoustic field. These type of models are well suited to reconstruction techniques known as compressive sampling.