

FourMal

Online seminars in Fourier Analysis and Machine Learning

Objective

These interactions will allow for a better understanding of recent developments in machine learning and help to produce new mathematical methods and tools to solve open problems in Harmonic Analysis, Approximation theory and other related areas. The goal is to promote the interaction between researchers in Australia and the neighbouring countries, working in the areas of Harmonic Analysis and with those in Data science and Machine Intelligence. Ph.D. students can also join to explore cross disciplinary

research. The objective is to meet once or twice a month and the speaker will be invited to deliver a lecture on the topic of the session from one or related areas from the list.

Topics

- Harmonic Analysis
- Approximation theory
- Machine Learning
- Frames and Wavelets
- Sampling and interpolation

- Gabor and wavelet analysis
- Statistical signal processing
- Partial Differential Equations
- Numerical solvers of very high-dimensional problems
- Functional analysis and operator theory.

Zoom link: to be emailed to the subscribers.

All the talks will be broadcasted via zoom, will be recorded and will be posted on the youtube channel FourMal.

To join FourMal youtube channel follow <https://www.youtube.com/@fourmalmeeting>

If you are interested in sharing a pre-recorded talk on machine learning and related areas, please email it to fourmal.meeting@gmail.com

If you have an interesting in sharing any application of data science for mathematics, please email it to fourmal.meeting@gmail.com

You can sign up to the mailing list for free and/or watch you tube recordings at your convenience.

To sign up, to receive email announcements about upcoming talks, please email fourmal.meeting@gmail.com or geetika.verma@rmit.edu.au. If you are interested in giving a talk, please email jeff.hogan@newcastle.edu.au or geetika.verma@rmit.edu.au