Thematic Month *Mathematics for Signals, Images and Structured Data*

CIRM (Marseille, France), 25 January - 26 February 2021

Signal and image processing is a discipline at the interface of several major scientific fields. In particular, mathematics plays a key role in understanding and modeling problems, and developing the algorithms for solving them. Initially, deeply associated with analysis, statistics and probability theory, mathematical approaches to signal processing involve increasingly diverse areas of mathematics, in response to the emergence of new issues and new types of data. The goal of this thematic month is to review the latest advances in mathematics for signal and image processing, their emergence and impact on several application fields (physics, biology, bio-medical, etc.) It will start with a research doctoral school on “Machine learning and signal processing”. The following four weeks will be devoted to international conferences that will focus on more specific themes. For further information please visit the program web site.

**Research school:** candidates are invited to submit their application (including a CV and a short motivation letter) at the CIRM web site. They are also encouraged to submit an extended abstract (template) for the poster sessions of the school at the submission site.

**Conferences:** besides invited talks, the four conferences will include shorter contributed talks and posters. Potential authors are invited to submit two pages extended abstract, using the template, on the following four topics:

- Harmonic Analysis, Multiscale Representations and Applications to Large-Scale Data, Modeling and Numerical Simulations
- Statistical Analysis of Images and their Derived Objects
- Mathematics for Audio and Music Signal Processing
- (Bio-)Medical Imaging, Neuro-Imaging and Related Signals

**Important dates**

- 20/07/2020: opening of submission site (2-page extended abstract for conferences, application for the research school), start of (!!! mandatory !!!) pre-registration at the CIRM web site
- 18/10/2020: submission deadline (no extension will be possible)
- 02/11/2020: author notification
- 15/11/2020: pre-registration deadline

Submit extended abstracts at: [https://msisd2021.sciencesconf.org/](https://msisd2021.sciencesconf.org/)
Pre-register (conferences) at: [https://conferences.cirm-math.fr/2331.html](https://conferences.cirm-math.fr/2331.html)
Apply (research school) at: [https://conferences.cirm-math.fr/2472.html](https://conferences.cirm-math.fr/2472.html)

*If you are interested in receiving updates concerning the program (including updated schedule, call for participation, call for submission, opening of registration,...), please register on the dedicated mailing list cirm2021@listes.math.cnrs.fr, by clicking on “s’abonner” (left menu) on the web site.*