

Details INLA workshop, Montpellier, June 2014

Integrated nested Laplace approximation (INLA) facilitates the fitting of a large range of complex statistical models by dramatically reducing computation time.

This one-day workshop discusses how spatial models may be fitted with INLA using the package R-INLA. We discuss a wide range of different types of spatial models, in particular complex spatial models, spatial point process models and hierarchical models.

Teaching will be a combination of lectures, computer sessions and discussions. Participants are encouraged to discuss their own data sets with the instructors.

The programme (lectures and practicals) will include:

- a general introduction to integrated nested Laplacian approximation (INLA)
- an overview of types of spatial models and examples
- examples of simple spatial models in R-INLA
- more complex spatial models, joint models, marked point patterns, models with multivariate RFs

There will be a practical component to the course with hands-on exercises.

Instructors

- Janine Illian (University of St. Andrews)
- Håvard Rue (NTNU Trondheim)