New Directions in Bayesian Statistics: formulation, computation and application to exemplar challenges

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Country

Australia

Title of project or programme

New Directions in Bayesian Statistics: formulation, computation and application to exemplar challenges

Source of funding information

Australian Research Council

Total sum awarded (Euro)

€ 235,570

Start date of award

01/01/2014

Total duration of award in years

3

Keywords
Research Abstract
Bayesian statistics is a fundamental statistical and machine learning approach for density estimation, data analysis and inference. However, there remain open questions regarding the formulation of the model, the likelihood and priors, and efficient computation. This project proposes new approaches that address these issues, and applies them to two exemplar challenges: the impact of climate change on the Great Barrier Reef and better understanding

neurological diseases related aging, in particular Parkinson's Disease.

Further information available at:

Types:
Investments < €500k

Member States:
Australia

Diseases:
N/A

Years:
2016

Database Categories:
N/A

Database Tags:
N/A