



Photo: Sally Mayman © Tourism NSW

7th Workshop on High-Dimensional Approximation

February 13 – 17, 2017

The University of New South Wales
Sydney, Australia

Josef Dick (UNSW, Australia)
Frances Kuo (UNSW, Australia)
Dirk Nuyens (KU Leuven, Belgium)

HDA2017

Topics

The scope of the seventh workshop ranges from high-dimensional approximation theory over computational methods to engineering and scientific applications. Topics include, but are not limited to,

- Sparse grid methods
- Quasi-Monte Carlo methods
- Tensor decompositions
- Polynomial chaos expansions
- Sparse approximations
- Reduced basis methods
- Multi-level methods
- Bayesian inversion
- Uncertainty quantification
- Manifold learning
- Nonlinear dimensionality reduction

Scientific Committee

Jonathan Borwein (Australia)
Albert Cohen (France)
Hans De Sterck (Australia)
Josef Dick (Australia)
Jochen Garcke (Germany)
Michael Griebel (Germany)
Wolfgang Hackbusch (Germany)
Markus Hegland (Australia)
Frances Kuo (Australia)
Dirk Nuyens (Belgium)
Stephen Roberts (Australia)
Christoph Schwab (Switzerland)
Ian Sloan (Australia)
Raul Tempone (Saudi Arabia)
Ian Turner (Australia)
Clayton Webster (USA)
Henryk Wozniakowski (USA & Poland)
Harry Yserentant (Germany)

We will celebrate the 65th birthday of Markus Hegland during the workshop.
We will also mark the tragic loss of Scientific Committee member Jonathan Borwein.