

## Focus Issue: CNMAC 2014

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The Brazilian Society of Computational and Applied Mathematics (SBMAC) was founded on November 1, 1978. Since then it has been organizing its most important and biggest scientific meeting: the National Congress of Computational and Applied Mathematics (CNMAC). This annual congress has around 800 participants, including under-graduate and graduate students, researchers, lecturers and professionals from public services and industries. SBMAC prizes and honors are also awarded during CNMAC. In 2014, CNMAC took place in Natal, Rio Grande do Norte, and there the SBMAC Boarding decided to organize a special number of the journal *Computational and Applied Mathematics* by inviting some authors to submit manuscripts connected to the contributed papers presented in the congress.

The present issue of *Computational and Applied Mathematics* contains a selection of refereed papers covering recent developments presented during the event. They are concerned with:

- fractional calculus, where the authors discuss modeling using Caputo fractional derivative and analyse an unexpected behavior of this derivative;
- numerical studies of incompressible fluid using regularization of Navier–Stokes equations;
- numerical simulation of two-dimensional incompressible turbulent flows;
- stable maps between closed orientable surfaces;
- inverse methodology for estimating chlorophyll-*a* concentration in waters.

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