



## Editorial

## Outstanding reviewers for Environmental Modelling and Software in 2011 and 2012

Environmental Modelling and Software is indebted to all of the reviewers, 960 in total in 2011 and 765 in 2012, who provided their time and expertise to ensure that the articles published in the journal are consistently of high standard. Each year ten reviewers are shortlisted by the Editors in recognition of their exceptional efforts in providing valuable assessments of papers under consideration for publication by the journal. Selection of the 'Outstanding Reviewer Awards' recipients were based on the rigour, constructiveness and timeliness of their reviews and the number of reviews performed. Two reviewers in particular, stood out from their peers for their exceptional contributions to the journal – Tim Oxley and Derek Karsenberg. These two reviewers will receive our highest distinction of 'Reviewer of the Year' for 2011 and 2012, respectively.

Thank you to the awardees and all reviewers for serving to achieve the journal's aims of advancing our capacity to represent, understand, predict or manage the behaviour of environmental systems at all practical scales, and to communicate those improvements to a wide scientific and professional audience.

The awardees for 2011 and their scientific interests are:

*Tim Oxley, Imperial College, UK* has a background in complex systems modelling with focus on human–environment interactions. His research interests include integrated assessment models to support air pollution policy making, tighter integration with the Nitrogen cycle, developing metrics to quantify ecosystem health and services, and identifying potential climate change feedbacks from damage to the natural environment.

*Olaf David, Colorado State University, USA* holds a research position at the Department of Civil and Environmental Engineering and the Department of Computer Science and is associated with the USDA through several research projects. His primary research interests are software systems design for environmental modelling and integrated tools for describing, managing, and applying spatially-distributed hydrological models.

*Sondoss ElSawah, National Centre for Groundwater Research and Training, Australian National University, Australia* has a PhD in applied systems science and a background in operations research and decision support systems. She works on a wide range of water research, including integrated assessment, participatory modelling, social learning, and cognitive decision making models.

*Stefano Galelli, National University of Singapore, Singapore* has a PhD in information technology. His research interests include adaptive modelling and management of water resources systems, with focus on dynamic emulation of large environmental models, feature extraction and selection for input selection problems,

distributed control of large-scale systems, and operational management of urban water reservoirs.

*Jonathan Goodall, University of South Carolina, USA* is a water resource engineer with research interests in hydrology and the application of informatics, computing, and systems analysis to hydrologic systems. He is working on developing and applying information and modelling systems to advance understanding of water resources.

*Rob Knapen, Alterra Wageningen University and Research Centre, The Netherlands* has a background in Computer Science and GIS, with interests in software engineering methodologies, man-machine interfaces and software usability. Recent work focuses on integrated modelling, semantic technologies, linked data, natural language processing and mobile software development, to support environmental decision making.

*Ruediger Schaldach, Center for Environmental Systems Research, Germany* has a background as a geo-ecologist and systems modeller. His research interests include integrated modelling of land-use change and environmental impact assessment. Recent work focuses on questions related to food security, environmental implications of bioenergy production and the sustainable management of land and water resources.

*Athanasios Sfetsos, NCSR Demokritos, Greece* has research interests in (i) integrated atmospheric modelling including weather, emissions and pollution models, with emphasis on the development of operational systems, (ii) environmental management systems and risk analysis, and (iii) application of statistical models for the forecasting of air quality.

*Stefano Tarantola, JRC, Italy* conducts and coordinates methodological work in the field of global sensitivity analysis and statistical work on innovation indicators for EU policy-making. He has experience in numerical modelling and quasi Monte Carlo simulation, and combines sensitivity analysis and participatory methods for the assessment of the robustness of indicators.

*Diego Valbuena, Systemwide Livestock Programme – ILRI, Ethiopia* is interested in understanding and improving the sustainability of human–environmental systems, and uses modelling tools to explore land use/cover change processes. He is currently working on improving the links between different disciplines, and the interaction between farming, development and research in developing countries.

The awardees for 2012 and their scientific interests are:

*Derek Karsenberg, Utrecht University, the Netherlands* is one of the developers of the PCRaster spatio-temporal modelling

software. His research interests include the development of modelling languages for process-based modelling, coupled spatio-temporal systems, and catchment hydrology and geomorphology.

*Lucy Bastin, University of Aston, UK* focuses on applied spatio-temporal analysis in ecological and environmental contexts such as systematic conservation planning and epidemiology. She has a particular interest in the quantification, representation, exchange and propagation of uncertainty information in integrated models, especially in web-based models and workflows.

*Emanuele Borgonovo, Bocconi University, Italy* is an expert in uncertainty and sensitivity analysis methods for decision support. His research focuses on the development and application of new methods for the global sensitivity analysis of complex computer codes, with applications to climate change, environmental modelling and operations research problems.

*Roberto Confalonieri, University of Milan, Italy* is a cropping system modeller and the main author of the WARM model for rice simulations. His main research interests are related to modelling approaches integrating knowledge from different sub-domains, in new metrics for model evaluation, and in developing systems for large-area crop monitoring and yield forecasting.

*David Hill, Thompson Rivers University, Canada* has a background in artificial intelligence and environmental sensing. His research interests centre on the integration of hydrology, computer science, and sensing technology to solve problems that impact public health, safety, and well-being. Recent projects have explored Bayesian inference for real-time forecasting, and spatial statistics for pervasive sensing of the environment.

*Marit Kragt, University of Western Australia, Australia* is interested in integrating economics and environmental modelling. Her research involves integrated modelling, agri-environmental management, and non-market valuation of environmental assets. Through this research, she hopes to contribute to improving

integration of science and economics, and to more efficient environmental policies.

*Ans Mouton, Research Institute for Nature and Forest/Ghent University, Belgium* has a background in aquatic species distribution modelling. His research applies fuzzy models and machine learning techniques to gain insight into the field of river connectivity, fish migration, river restoration and aquatic species conservation.

*Sasa Nesic, IDSIA, Switzerland* has research interests in semantic technologies, knowledge engineering, service-oriented architectures, and environmental modelling. A particular focus of his current research is on the application of semantic technologies to annotation and discovery of environmental resources.

*Avi Ostfeld, Technion – Israel Institute of Technology, Israel* conducts research in water resources systems, hydrology, and water distribution systems optimization. His expertise are in evolutionary computation techniques for water distribution systems security enhancements, optimal design and operation, and integrating water quality and reliability into water supply systems management and control.

*Willem Vervoort, University of Sydney, Australia* is particularly interested in simulating landscape hydrology and behaviour under variable climate to understand opportunities for water sharing. Current research interests are related to groundwater salinity, eco-hydrological modelling and risk and uncertainty in hydrology.

The Editors congratulate these awardees and thank them for their valuable efforts and contributions.

Anthony J. Jakeman  
Andrea E. Rizzoli  
Alexey A. Voinov  
Ioannis N. Athanasiadis

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