

## [modsim 2017 full papers](#)

A comparative analysis of precipitation estimation methods for streamflow prediction

<http://www.mssanz.org.au/modsim2017/A1/guo.pdf>

<https://doi.org/10.36334/modsim.2017.A1.Guo>

Sensitivity analysis to configuration option settings in a selection of species distribution modelling algorithms

<http://www.mssanz.org.au/modsim2017/A1/hallgren.pdf>

<https://doi.org/10.36334/modsim.2017.A1.Hallgren>

A comparison of global sensitivity techniques and sampling method

<http://www.mssanz.org.au/modsim2017/A1/sun.pdf>

<https://doi.org/10.36334/modsim.2017.A1.Sun>

Accuracy analysis of the Brownian motion approach for the ballistic resistance estimation: Comparison of numerical and experimental distributions

<http://www.mssanz.org.au/modsim2017/A1/tahenti.pdf>

<https://doi.org/10.36334/modsim.2017.A1.Tahenti>

Graphical diagnostics for classification trees using asymmetric penalties on misclassification

<http://www.mssanz.org.au/modsim2017/A1/vasco.pdf>

<https://doi.org/10.36334/modsim.2017.A1.Vasco>

Estimation of direction of increase of gold mineralisation using pair-copulas

<http://www.mssanz.org.au/modsim2017/A2/addo.pdf>

<https://doi.org/10.36334/modsim.2017.A2.Addo>

Bayesian Gaussian models for interpolating large-dimensional data at misaligned areal units

<http://www.mssanz.org.au/modsim2017/A2/bakar.pdf>

<https://doi.org/10.36334/modsim.2017.A2.Bakar>

Assessment of the effects of the inclusion of poor quality sediment samples on spatial predictions of seabed sediments in the Australian marine margin

<http://www.mssanz.org.au/modsim2017/A2/dunn.pdf>

<https://doi.org/10.36334/modsim.2017.A2.Dunn>

A fuzzy optimisation model with applications to air pollution exposure mitigation

<http://www.mssanz.org.au/modsim2017/A2/schultz.pdf>

<https://doi.org/10.36334/modsim.2017.A2.Schultz>

Effects of Spatial Reference Systems on the accuracy of spatial predictive modelling along a latitudinal gradient

<http://www.mssanz.org.au/modsim2017/A2/turner.pdf>

<https://doi.org/10.36334/modsim.2017.A2.Turner>

A numerical modeling of a natural gas using multistage membrane permeation

<http://www.mssanz.org.au/modsim2017/A4/ahsan.pdf>

<https://doi.org/10.36334/modsim.2017.A4.Ahsan>

The optimal location of ambulance stations in a regional area: The case of Mackay

<http://www.mssanz.org.au/modsim2017/A4/dzator.pdf>

<https://doi.org/10.36334/modsim.2017.A4.Dzator>

Genetic linkage to explain genetic variation

<http://www.mssanz.org.au/modsim2017/A4/mijangos.pdf>

<https://doi.org/10.36334/modsim.2017.A4.Mijangos>

Lattice models of habitat destruction in a prey-predator system

<http://www.mssanz.org.au/modsim2017/A4/nakagiri.pdf>

<https://doi.org/10.36334/modsim.2017.A4.Nakagiri>

Invasive species in a confined environment: Reindeer population in the Pribilof Islands

<http://www.mssanz.org.au/modsim2017/A4/saifuddin.pdf>

<https://doi.org/10.36334/modsim.2017.A4.Saifuddin>

Propagation of travelling waves in a complex system modelling fire spread

<http://www.mssanz.org.au/modsim2017/A4/watt.pdf>

<https://doi.org/10.36334/modsim.2017.A4.Watt>

Population response to environmental change: A model with an alternate stable state

<http://www.mssanz.org.au/modsim2017/A4/watt2.pdf>

<https://doi.org/10.36334/modsim.2017.A4.Watt2>

Impacts of cultural risk factors on project success in the UAE construction industry

<http://www.mssanz.org.au/modsim2017/A5/alhasani.pdf>

<https://doi.org/10.36334/modsim.2017.A5.Alhasani>

Empirical Mode Decomposition and the two-tone separation problem in the presence of noise

<http://www.mssanz.org.au/modsim2017/A5/bahri.pdf>

<https://doi.org/10.36334/modsim.2017.A5.Bahri>

Impact of rainfall fluctuations and temperature variations on people movement in Sub-Saharan Africa: A Time Series Analysis of data from Somalia and Ethiopia

<http://www.mssanz.org.au/modsim2017/A5/hassan.pdf>

<https://doi.org/10.36334/modsim.2017.A5.Hassan>

Time series regression uncovers significant correlation between soil microbial DNA concentration and enzymatic glucose neo-generation

<http://www.mssanz.org.au/modsim2017/A5/ives.pdf>

<https://doi.org/10.36334/modsim.2017.A5.Ives>

An analysis of the relationships between ownership structure and capital structure of the global water industry

<http://www.mssanz.org.au/modsim2017/A5/reza.pdf>

<https://doi.org/10.36334/modsim.2017.A5.Reza>

Change-point detection in time series data via the Cross-Entropy method

<http://www.mssanz.org.au/modsim2017/A5/sofronov.pdf>

<https://doi.org/10.36334/modsim.2017.A5.Sofronov>

Electricity consumption, Peak load and GDP in Saudi Arabia: A time series analysis

<http://www.mssanz.org.au/modsim2017/A5/tularam.pdf>

<https://doi.org/10.36334/modsim.2017.A5.Tularam>

Modelling the spatial spread risk of plant pests and pathogens for strategic management decisions

<http://www.mssanz.org.au/modsim2017/B1/baxter.pdf>

<https://doi.org/10.36334/modsim.2017.B1.Baxter>

Modelling complex insect invasions: European House Borer as a case study

<http://www.mssanz.org.au/modsim2017/B1/cacho.pdf>

<https://doi.org/10.36334/modsim.2017.B1.Cacho>

Calibration and validation of AquaCrop for irrigated peanut (*Arachis hypogaea*) in lowland rice systems of southern Laos

<http://www.mssanz.org.au/modsim2017/B1/khov.pdf>

<https://doi.org/10.36334/modsim.2017.B1.Khov>

Misuse of coefficient of determination for empirical validation of models

<http://www.mssanz.org.au/modsim2017/B1/mcphee.pdf>

<https://doi.org/10.36334/modsim.2017.B1.McPhee>

A functional-structural coral model

<http://www.mssanz.org.au/modsim2017/B2/cresswell.pdf>

<https://doi.org/10.36334/modsim.2017.B2.Cresswell>

Sensitivity of simulated yield of dryland wheat to uncertainty in estimated plant-available water capacity

<http://www.mssanz.org.au/modsim2017/B3/chen.pdf>

<https://doi.org/10.36334/modsim.2017.B3.Chen>

Determination of BMPs to reduce soil and water pollution in tile-drained watersheds in Southern Ontario, Canada under changing climate

<http://www.mssanz.org.au/modsim2017/B3/golmohammadi.pdf>

<https://doi.org/10.36334/modsim.2017.B3.Golmohammadi>

Stochastic sensitivity analysis of glyphosate biochemical degradation

<http://www.mssanz.org.au/modsim2017/B3/lacecelia.pdf>

<https://doi.org/10.36334/modsim.2017.B3.Lacecelia>

Simulation of the progression of yellow spot on wheat using a functional-structural plant model (FSPM):

Model concepts

<http://www.mssanz.org.au/modsim2017/B3/streit.pdf>

<https://doi.org/10.36334/modsim.2017.B3.Streit>

A simulation model for exploring the effects of plant-soil feedbacks on the resilience of plant

communitiesInvited Paper

<http://www.mssanz.org.au/modsim2017/B3/trevenen.pdf>

<https://doi.org/10.36334/modsim.2017.B3.Trevenen>

Voice-based protocols for mobile ad hoc networks: Challenges, design principles, and implementations

<http://www.mssanz.org.au/modsim2017/C1/aburumman.pdf>

<https://doi.org/10.36334/modsim.2017.C1.Aburumman>

Process improvement based on an integrated approach to DMAIC and multi-method simulation

<http://www.mssanz.org.au/modsim2017/C1/ahmed.pdf>

<https://doi.org/10.36334/modsim.2017.C1.Ahmed>

A hybrid simulation model of individual and team performance in software project environment

<http://www.mssanz.org.au/modsim2017/C1/alshammri.pdf>

<https://doi.org/10.36334/modsim.2017.C1.Alshammri>

A Virtual Element Model for the prediction of long-term salt marsh dynamics

<http://www.mssanz.org.au/modsim2017/C1/ferronato.pdf>

<https://doi.org/10.36334/modsim.2017.C1.Ferronato>

Using wind shock-waves and turbulence as a soft attrition capability against a smart adversary team of UAVs

<http://www.mssanz.org.au/modsim2017/C1/ivancevic.pdf>

<https://doi.org/10.36334/modsim.2017.C1.Ivancevic>

Boundary layer approximation for melt film dynamics in laser fusion cutting

<http://www.mssanz.org.au/modsim2017/C1/jansen.pdf>

<https://doi.org/10.36334/modsim.2017.C1.Jansen>

Dynamic modelling of complex systems under deep uncertainty using an exploratory multi-method approach

<http://www.mssanz.org.au/modsim2017/C1/moallemi.pdf>

<https://doi.org/10.36334/modsim.2017.C1.Moallemi>

A new Benders decomposition acceleration procedure for large scale multiple allocation hub location problems

<http://www.mssanz.org.au/modsim2017/C1/mokhtar.pdf>

<https://doi.org/10.36334/modsim.2017.C1.Mokhtar>

Computer modelling and simulation of the mechanical response of composite lattice structures

<http://www.mssanz.org.au/modsim2017/C1/morozov.pdf>

<https://doi.org/10.36334/modsim.2017.C1.Morozov>

Virtual human simulation on memory acquisition and walking with the memory

<http://www.mssanz.org.au/modsim2017/C1/mukai.pdf>

<https://doi.org/10.36334/modsim.2017.C1.Mukai>

The application of simulation (virtual reality) for safety training in the context of mining industry

<http://www.mssanz.org.au/modsim2017/C1/pedram.pdf>

<https://doi.org/10.36334/modsim.2017.C1.Pedram>

Optimal scheduling of distributed energy resources as a virtual power plant in a transactive energy framework

<http://www.mssanz.org.au/modsim2017/C1/qui.pdf>

<https://doi.org/10.36334/modsim.2017.C1.Qui>

On Wavelet Transform: An extension of Fractional Fourier Transform and its applications in optical signal processing

<http://www.mssanz.org.au/modsim2017/C1/sharma.pdf>

<https://doi.org/10.36334/modsim.2017.C1.Sharma>

Bi-criteria scheduling on parallel machines under fuzzy processing time

<http://www.mssanz.org.au/modsim2017/C1/sharma4.pdf>

<https://doi.org/10.36334/modsim.2017.C1.Sharma4>

Modelling a single-blade wind turbine using computational fluid dynamics

<http://www.mssanz.org.au/modsim2017/C1/wakes.pdf>

<https://doi.org/10.36334/modsim.2017.C1.Wakes>

Modelling causes for actions with the Decision and PROV ontologies

<https://www.mssanz.org.au/modsim2017/C2/car.pdf>

<https://doi.org/10.36334/modsim.2017.C2.Car>

PROV ontology supports alignment of observational data (models)

<http://www.mssanz.org.au/modsim2017/C2/cox.pdf>

<https://doi.org/10.36334/modsim.2017.C2.Cox>

Provenance in the next-generation spatial knowledge infrastructure

<http://www.mssanz.org.au/modsim2017/C2/ivanova.pdf>

<https://doi.org/10.36334/modsim.2017.C2.Ivanova>

Documenting provenance of science in a state government agency

<http://www.mssanz.org.au/modsim2017/C2/miles.pdf>

<https://doi.org/10.36334/modsim.2017.C2.Miles>

Uchronia, a software module for efficient handling of multidimensional time series and use in ensemble forecasting

<http://www.mssanz.org.au/modsim2017/C2/perraud.pdf>

<https://doi.org/10.36334/modsim.2017.C2.Perraud>

Dive Mechanic: Bringing 3D virtual experimentation to elite level diving using the Workspace workflow engine

<http://www.mssanz.org.au/modsim2017/C3/cohen.pdf>

<https://doi.org/10.36334/modsim.2017.C3.Cohen>

Senaps: A platform for integrating time-series with modelling systems

<http://www.mssanz.org.au/modsim2017/C3/coombe.pdf>

<https://doi.org/10.36334/modsim.2017.C3.Coombe>

A computational model of arc welding – from a research tool to a software product

<http://www.mssanz.org.au/modsim2017/C3/murphy.pdf>

<https://doi.org/10.36334/modsim.2017.C3.Murphy>

Implementing best practices and a workflow for modelling the geospatial distribution of migratory species

<http://www.mssanz.org.au/modsim2017/C3/santana.pdf>

<https://doi.org/10.36334/modsim.2017.C3.Santana>

Workspace – a scientific workflow system for enabling research impact

<http://www.mssanz.org.au/modsim2017/C3/watkins.pdf>

<https://doi.org/10.36334/modsim.2017.C3.Watkins>

Constrained sampling of Markov Chains

<http://www.mssanz.org.au/modsim2017/C6/bulger.pdf>

<https://doi.org/10.36334/modsim.2017.C6.Bulger>

Comparison learning algorithms for artificial neural network model for flood forecasting, Chiang Mai, Thailand

<http://www.mssanz.org.au/modsim2017/C6/chaipimonplin.pdf>

<https://doi.org/10.36334/modsim.2017.C6.Chaipimonplin>

Robustness of artificial neural network and discrete choice modelling in presence of unobserved variables

<http://www.mssanz.org.au/modsim2017/C6/dumont.pdf>

<https://doi.org/10.36334/modsim.2017.C6.Dumont>

Score function of violations and best cutpoint to identify druggable molecules and associated disease targets

<http://www.mssanz.org.au/modsim2017/C6/hudson.pdf>

<https://doi.org/10.36334/modsim.2017.C6.Hudson>

Analysis of ligand binding to macromolecules using kinetic and polynomial approaches

<http://www.mssanz.org.au/modsim2017/C6/jamal.pdf>

<https://doi.org/10.36334/modsim.2017.C6.Jamal>

Efficient NetCDF processing for big datasets

<http://www.mssanz.org.au/modsim2017/C6/singh.pdf>

<https://doi.org/10.36334/modsim.2017.C6.Singh>

An improved hybrid algorithm for multiple change-point detection in array CGH data

<http://www.mssanz.org.au/modsim2017/C6/sofronov.pdf>

<https://doi.org/10.36334/modsim.2017.C6.Sofronov>

A local sensitivity analysis of Ca<sup>2+</sup>-calmodulin binding and its influence over PP1 activity

<http://www.mssanz.org.au/modsim2017/C6/stevensbullmore.pdf>

<https://doi.org/10.36334/modsim.2017.C6.Stevensbullmore>

Decision intelligence in public health – DIONE

<http://www.mssanz.org.au/modsim2017/C6/stolk.pdf>

https://doi.org/10.36334/modsim.2017.C6.Stolk

Modelling a multi agent system for dairy farms for integrated decision making

<http://www.mssanz.org.au/modsim2017/C6/thangaraj.pdf>

https://doi.org/10.36334/modsim.2017.C6.Thangaraj

Using combat simulation and sensitivity analysis to support evaluation of land combat vehicle configurations

<http://www.mssanz.org.au/modsim2017/D1/chau.pdf>

https://doi.org/10.36334/modsim.2017.D1.Chau

Pragmatic Expert Elicitation for Defence Capability Analysis

<http://www.mssanz.org.au/modsim2017/D1/donohoo.pdf>

https://doi.org/10.36334/modsim.2017.D1.Donohoo

A summary of the analysis of some data from two ABI trials

<http://www.mssanz.org.au/modsim2017/D1/elmahassni.pdf>

https://doi.org/10.36334/modsim.2017.D1.Elmahassni

Obtaining relational data and activity-based social networks from track data: an example from the WASABI project

<http://www.mssanz.org.au/modsim2017/D1/elmahassni2.pdf>

https://doi.org/10.36334/modsim.2017.D1.Elmahassni2

Methods of distributed processing for combat simulation data generation

<http://www.mssanz.org.au/modsim2017/D1/holden.pdf>

https://doi.org/10.36334/modsim.2017.D1.Holden

Data-Driven Joint Force Design

<http://www.mssanz.org.au/modsim2017/D1/jiang.pdf>

https://doi.org/10.36334/modsim.2017.D1.Jiang

Modelling a battle: Looking beyond numbers

<http://www.mssanz.org.au/modsim2017/D1/kravchuk.pdf>

https://doi.org/10.36334/modsim.2017.D1.Kravchuk

A location-based interface approach to developing a systematic event analysis tool

<http://www.mssanz.org.au/modsim2017/D1/madden.pdf>

https://doi.org/10.36334/modsim.2017.D1.Madden

Establishing confidence in combat simulation input data

<http://www.mssanz.org.au/modsim2017/D1/shine.pdf>

https://doi.org/10.36334/modsim.2017.D1.Shine

Scenario design for verification and validation, hardware testing and operations research

<http://www.mssanz.org.au/modsim2017/D1/waugh.pdf>

https://doi.org/10.36334/modsim.2017.D1.Waugh

A critical assessment of a partially-successful analytical campaign

<http://www.mssanz.org.au/modsim2017/D1/williams.pdf>

https://doi.org/10.36334/modsim.2017.D1.Williams

Evaluation of joint fires management process in long range fires

<http://www.mssanz.org.au/modsim2017/D2/au.pdf>

https://doi.org/10.36334/modsim.2017.D2.Au

Integrating spaceborne sensing with airborne maritime surveillance patrols

<http://www.mssanz.org.au/modsim2017/D2/fok.pdf>

https://doi.org/10.36334/modsim.2017.D2.Fok

Automating the design of Battle Rhythms

<http://www.mssanz.org.au/modsim2017/D2/pilling.pdf>

https://doi.org/10.36334/modsim.2017.D2.Pilling

Determining amphibious command and control staffing requirements using business process modelling and simulation

<http://www.mssanz.org.au/modsim2017/D2/tavener.pdf>

https://doi.org/10.36334/modsim.2017.D2.Tavener

Using System Dynamics to study Army Reserve deployment sustainability

<http://www.mssanz.org.au/modsim2017/D2/wang.pdf>

https://doi.org/10.36334/modsim.2017.D2.Wang

C2 and the Kuramoto Model: An epistemological retrospective

<http://www.mssanz.org.au/modsim2017/D3/dekker.pdf>

https://doi.org/10.36334/modsim.2017.D3.Dekker

On the set-union budget scenario problem

<http://www.mssanz.org.au/modsim2017/D3/jagiello.pdf>

https://doi.org/10.36334/modsim.2017.D3.Jagiello

Naval gunfire support under uncertainty

<http://www.mssanz.org.au/modsim2017/D3/keever.pdf>

https://doi.org/10.36334/modsim.2017.D3.Keevers

Using column generation to solve an aircrew training timetabling problem

<http://www.mssanz.org.au/modsim2017/D3/kirszenblat.pdf>

https://doi.org/10.36334/modsim.2017.D3.Kirszenblat

An optimal recruitment algorithm based on an efficient tree search policy

<http://www.mssanz.org.au/modsim2017/D3/lalbakhsh.pdf>

https://doi.org/10.36334/modsim.2017.D3.Lalbakhsh

Weighted random sampling for military aircrew timetabling

<http://www.mssanz.org.au/modsim2017/D3/talbot.pdf>

https://doi.org/10.36334/modsim.2017.D3.Talbot

Application of mathematical programming to prioritising interdependent Defence investment programs

<http://www.mssanz.org.au/modsim2017/D3/wang.pdf>

https://doi.org/10.36334/modsim.2017.D3.Wang

Longitudinal models for project expenditure plans

<http://www.mssanz.org.au/modsim2017/D3/weir.pdf>

https://doi.org/10.36334/modsim.2017.D3.Weir

Management by hierarchical control versus mindfulness

<http://www.mssanz.org.au/modsim2017/D4/lintern.pdf>

https://doi.org/10.36334/modsim.2017.D4.Lintern

A conceptual model for the identification of suitable personnel to operate in high-risk, physically demanding environments

<http://www.mssanz.org.au/modsim2017/D4/mouthaan.pdf>

https://doi.org/10.36334/modsim.2017.D4.Mouthaan

Assessing the impact of the bathtub curve failure rate on fleet performance using designed simulation experiments

<http://www.mssanz.org.au/modsim2017/D5/marlow.pdf>

<https://doi.org/10.36334/modsim.2017.D5.Marlow>

Modelling RMB internationalization and impact on capital flow

<http://www.mssanz.org.au/modsim2017/E1/li.pdf>

<https://doi.org/10.36334/modsim.2017.E1.Li>

Modelling MNC's market entry order strategy: evidence from China

<http://www.mssanz.org.au/modsim2017/E1/qi.pdf>

<https://doi.org/10.36334/modsim.2017.E1.Qi>

Separation of R&D Processes in a Biopharmaceutical R&D

<http://www.mssanz.org.au/modsim2017/E2/miyashige.pdf>

<https://doi.org/10.36334/modsim.2017.E2.Miyashige>

Understanding and modelling fluorescent dissolved organic matter probe readings for improved coagulation performance in water treatment plants

<http://www.mssanz.org.au/modsim2017/E3/chang.pdf>

<https://doi.org/10.36334/modsim.2017.E3.Chang>

Volatility spillovers and causality of carbon emissions, oil and coal spot and futures for the EU and USA

<http://www.mssanz.org.au/modsim2017/E3/chang2.pdf>

<https://doi.org/10.36334/modsim.2017.E3.Chang2>

The correct regularity condition and interpretation of asymmetry in EGARCH

<http://www.mssanz.org.au/modsim2017/E3/chang3.pdf>

<https://doi.org/10.36334/modsim.2017.E3.Chang3>

Hedging Barrier Options through a Log-Normal Local Stochastic Volatility model

<http://www.mssanz.org.au/modsim2017/E3/ning.pdf>

<https://doi.org/10.36334/modsim.2017.E3.Ning>

Do socially responsible investments strategies significantly reduce diversification benefits?

<http://www.mssanz.org.au/modsim2017/E4/abidin.pdf>

<https://doi.org/10.36334/modsim.2017.E4.Abidin>

Stochastic global optimization using random forests

<http://www.mssanz.org.au/modsim2017/E5/robertson.pdf>

<https://doi.org/10.36334/modsim.2017.E5.Robertson>

Optimising irrigated agricultural productivity under varying water availability: industry challenges in northern Victoria

<http://www.mssanz.org.au/modsim2017/E6/beverly.pdf>

<https://doi.org/10.36334/modsim.2017.E6.Beverly>

Simulating scalable Long Range Wide Area Networks for very low power monitoring applications

<http://www.mssanz.org.au/modsim2017/F1/accettura.pdf>

<https://doi.org/10.36334/modsim.2017.F1.Accettura>

Getting to work: smart work centers reduce morning peak traffic flow

<http://www.mssanz.org.au/modsim2017/F1/baynes.pdf>

<https://doi.org/10.36334/modsim.2017.F1.Baynes>

Importance of the order of the modules in TransMob

<http://www.mssanz.org.au/modsim2017/F1/dumont.pdf>

<https://doi.org/10.36334/modsim.2017.F1.Dumont>

A Global and Local Learning Model of Transport (GALLM-T)

<http://www.mssanz.org.au/modsim2017/F1/hayward.pdf>

<https://doi.org/10.36334/modsim.2017.F1.Hayward>

Green, affordable housing. Enhancing residential operational utility efficiency for low-income households.  
A integrated systems thinking approach.

<http://www.mssanz.org.au/modsim2017/F1/macaskill.pdf>

<https://doi.org/10.36334/modsim.2017.F1.Macaskill>

Spatially optimised tree plantings to minimise urban heat

<http://www.mssanz.org.au/modsim2017/F1/marinoni.pdf>

<https://doi.org/10.36334/modsim.2017.F1.Marinoni>

Assessing infrastructure system of systems integrity

<http://www.mssanz.org.au/modsim2017/F1/peculis.pdf>

<https://doi.org/10.36334/modsim.2017.F1.Peculis>

Breaking away from trend-based analysis for regional modelling and planning

<http://www.mssanz.org.au/modsim2017/F1/perez.pdf>

<https://doi.org/10.36334/modsim.2017.F1.Perez>

Modular system approach for modelling socio-technical transitions towards alternative energy infrastructures in urban areas

<http://www.mssanz.org.au/modsim2017/F1/rojas.pdf>

<https://doi.org/10.36334/modsim.2017.F1.Rojas>

How to choose the right planning horizon? Using multi-objective optimization to support urban planning

<http://www.mssanz.org.au/modsim2017/F1/schwaab.pdf>

<https://doi.org/10.36334/modsim.2017.F1.Schwaab>

Role of a 'combination rule' in hybrid short-term prediction of hydrological events

<http://www.mssanz.org.au/modsim2017/G1/erechtchoukova.pdf>

<https://doi.org/10.36334/modsim.2017.G1.Erechtchoukova>

Estimating soil organic carbon stocks using machine learning methods in the semi-arid rangelands of New South Wales

<http://www.mssanz.org.au/modsim2017/G1/wang.pdf>

<https://doi.org/10.36334/modsim.2017.G1.Wang>

Empirical modelling of river water temperature in water scarce European basins

<http://www.mssanz.org.au/modsim2017/G4/vigiak.pdf>

<https://doi.org/10.36334/modsim.2017.G4.Vigiak>

Hydrological flow metrics for ecological impact assessment of river basins in Northern Australia

<http://www.mssanz.org.au/modsim2017/G6/amos.pdf>

<https://doi.org/10.36334/modsim.2017.G6.Amos>

Influence of climate change and hydroclimate variability on the impact of coal resource development on runoff

<http://www.mssanz.org.au/modsim2017/G6/chiew.pdf>

<https://doi.org/10.36334/modsim.2017.G6.Chiew>

Proposed guidance for developing ecohydrological models

<http://www.mssanz.org.au/modsim2017/G6/pollino.pdf>

<https://doi.org/10.36334/modsim.2017.G6.Pollino>

An ecological trajectories architecture for use in the Murray–Darling Basin

<http://www.mssanz.org.au/modsim2017/G6/stratford.pdf>

<https://doi.org/10.36334/modsim.2017.G6.Stratford>

Integrating biological degradation potential into ecological risk assessment

<http://www.mssanz.org.au/modsim2017/G6/tang.pdf>

<https://doi.org/10.36334/modsim.2017.G6.Tang>

Sampling bias and implicit knowledge in ecological niche modelling

<http://www.mssanz.org.au/modsim2017/G8/dekker.pdf>

<https://doi.org/10.36334/modsim.2017.G8.Dekker>

Rapid spatial risk modelling for invasion management under uncertainty

<http://www.mssanz.org.au/modsim2017/G8/froese.pdf>

<https://doi.org/10.36334/modsim.2017.G8.Froese>

Modelling wind erosion for Australia for prioritisation of national Landcare investments

<http://www.mssanz.org.au/modsim2017/G8/leys.pdf>

<https://doi.org/10.36334/modsim.2017.G8.Leys>

Experimenting with modelling via a virtual laboratory: Evaluating pseudo-absence strategies to refine a species distribution model

<http://www.mssanz.org.au/modsim2017/G8/lowchoy.pdf>

<https://doi.org/10.36334/modsim.2017.G8.Lowchoy>

Investigating the potential role of visualisation in natural resource decision-making

<http://www.mssanz.org.au/modsim2017/G8/otinpong.pdf>

<https://doi.org/10.36334/modsim.2017.G8.otinpong>

An alternative method for deriving a USLE nomograph K factor equation

<http://www.mssanz.org.au/modsim2017/G8/schwarzmueller.pdf>

<https://doi.org/10.36334/modsim.2017.G8.schwarzmueller>

Spatially-explicit modelling of ecological processes in complex agricultural landscapes: connecting 'artificial' landscapes with 'reality'

<http://www.mssanz.org.au/modsim2017/G8/walker.pdf>

<https://doi.org/10.36334/modsim.2017.G8.walker>

Atmospheric correction for a Landsat and Sentinel-2 product over water surfaces

<http://www.mssanz.org.au/modsim2017/G9/li.pdf>

<https://doi.org/10.36334/modsim.2017.G9.li>

Upscaling UAV-borne high resolution vegetation index to satellite resolutions over a vineyard

<http://www.mssanz.org.au/modsim2017/G9/wang.pdf>

<https://doi.org/10.36334/modsim.2017.G9.wang>

Validation of surface water maps in selected Australian floodplains derived from Landsat imagery using hydrodynamic modelling

<http://www.mssanz.org.au/modsim2017/H1/ticehurst.pdf>

<https://doi.org/10.36334/modsim.2017.H1.ticehurst>

Does a fifteen-hour shift make much difference? – Influence of time lag between rainfall and discharge data on model calibration

<http://www.mssanz.org.au/modsim2017/H3/jian.pdf>

<https://doi.org/10.36334/modsim.2017.H3.jian>

Computing the relative land subsidence at Venice, Italy, over the last fifty years

<http://www.mssanz.org.au/modsim2017/H4/dalio.pdf>

<https://doi.org/10.36334/modsim.2017.H4.dalio>

A novel elevation phase elimination method for PSInSAR in urban area with high buildings

<http://www.mssanz.org.au/modsim2017/H4/jiao.pdf>

<https://doi.org/10.36334/modsim.2017.H4.jiao>

Exploring extratropical transition with hybrid idealised models

<http://www.mssanz.org.au/modsim2017/H4/krause.pdf>

<https://doi.org/10.36334/modsim.2017.H4.krause>

Relationship between urban construction and land subsidence in Beijing region

<http://www.mssanz.org.au/modsim2017/H4/yang.pdf>

<https://doi.org/10.36334/modsim.2017.H4.yang>

Research on hierarchical method for extraction ground fissures through high resolution image

<http://www.mssanz.org.au/modsim2017/H4/zhang.pdf>

<https://doi.org/10.36334/modsim.2017.H4.zhang>

Assimilating stream flow, evapotranspiration and soil moisture data in AWRA-L model with particle filter

<http://www.mssanz.org.au/modsim2017/H5/pham.pdf>

<https://doi.org/10.36334/modsim.2017.H5.pham>

Enhancement of water storage estimates using GRACE data assimilation with particle filter framework

<http://www.mssanz.org.au/modsim2017/H5/tangdamrongsub.pdf>

<https://doi.org/10.36334/modsim.2017.H5.tangdamrongsub>

Global operational data services for storm surge and fluvial flood forecasting

<http://www.mssanz.org.au/modsim2017/H6/dekleermaeker.pdf>

<https://doi.org/10.36334/modsim.2017.H6.dekleermaeker>

Downscaling SMAP and SMOS soil moisture retrievals over the Goulburn River Catchment, Australia

<http://www.mssanz.org.au/modsim2017/H6/senanayake.pdf>

<https://doi.org/10.36334/modsim.2017.H6.senanayake>

Characterizing change-points in climate series with a severe approach

<http://www.mssanz.org.au/modsim2017/H7/ricketts.pdf>

<https://doi.org/10.36334/modsim.2017.H7.ricketts>

Designing elicitation of expert knowledge into conditional probability tables in Bayesian networks: choosing scenario

<http://www.mssanz.org.au/modsim2017/H8/alkhairy.pdf>

<https://doi.org/10.36334/modsim.2017.H8.alkhairy>

Interpreting transition and emission probabilities from a Hidden Markov Model of remotely sensed snow cover in a Himalayan Basin

<http://www.mssanz.org.au/modsim2017/H9/chua.pdf>

<https://doi.org/10.36334/modsim.2017.H9.chua>

Farm-scale minimum temperature mapping for strategic and tactical frost management

<http://www.mssanz.org.au/modsim2017/H9/gobbett.pdf>

<https://doi.org/10.36334/modsim.2017.H9.gobbett>

The role of deep flaming in violent pyroconvection

<http://www.mssanz.org.au/modsim2017/H10/badlan.pdf>

<https://doi.org/10.36334/modsim.2017.H10.badlan>

Exploring the future of fuel loads in Tasmania. Shifts in vegetation in response to changing fire weather, productivity, and fire frequency. Invited Paper

<http://www.mssanz.org.au/modsim2017/H10/harris.pdf>

<https://doi.org/10.36334/modsim.2017.H10.harris>

Dynamic modelling of radiant heat from wildfires

<http://www.mssanz.org.au/modsim2017/H10/hilton.pdf>

<https://doi.org/10.36334/modsim.2017.H10.hilton>

Simulation of spot fire coalescence with dynamic feedback

<http://www.mssanz.org.au/modsim2017/H10/hilton2.pdf>

<https://doi.org/10.36334/modsim.2017.H10.hilton2>

Polynomial Chaos for sensitivity analysis in wildfire modelling

<http://www.mssanz.org.au/modsim2017/H10/hilton3.pdf>

<https://doi.org/10.36334/modsim.2017.H10.hilton3>

What are the safety implications of dynamic fire behaviours?

<http://www.mssanz.org.au/modsim2017/H10/lahaye.pdf>

<https://doi.org/10.36334/modsim.2017.H10.lahaye>

The use of spectrum width radar data for bushfire model verification

<http://www.mssanz.org.au/modsim2017/H10/mccarthy.pdf>

<https://doi.org/10.36334/modsim.2017.H10.mccarthy>

Physics based modelling of tree fires and fires transitioning from the forest floor to the canopy

<http://www.mssanz.org.au/modsim2017/H10/moinuddin.pdf>

<https://doi.org/10.36334/modsim.2017.H10.moinuddin>

Incorporating ember attack in bushfire risk assessment: a case study of the Ginninderry region

<http://www.mssanz.org.au/modsim2017/H10/roberts.pdf>

<https://doi.org/10.36334/modsim.2017.H10.roberts>

A stochastic differential equation approach to modelling the growth phase of fire spread

<http://www.mssanz.org.au/modsim2017/H10/sanni.pdf>

<https://doi.org/10.36334/modsim.2017.H10.sanni>

Dynamic simulation of the Cape Barren Island fire using the Spark framework

<http://www.mssanz.org.au/modsim2017/H10/sharples.pdf>

<https://doi.org/10.36334/modsim.2017.H10.sharples>

Modelling the dynamic behaviour of small scale junction fires using curvature flows

<http://www.mssanz.org.au/modsim2017/H10/sharples2.pdf>

<https://doi.org/10.36334/modsim.2017.H10.sharples2>

Reassessing the validity of AS3959 in the presence of dynamic bushfire propagation

<http://www.mssanz.org.au/modsim2017/H10/sharples3.pdf>

<https://doi.org/10.36334/modsim.2017.H10.sharples3>

Modelling firebreaks in a two-dimensional dynamic fire spread simulator

<http://www.mssanz.org.au/modsim2017/H10/swedosh.pdf>

<https://doi.org/10.36334/modsim.2017.H10.swedosh>

Evaluating the terminal-velocity assumption in simulations of long-range inert ember transport

<http://www.mssanz.org.au/modsim2017/H10/thomas.pdf>

<https://doi.org/10.36334/modsim.2017.H10.thomas>

Incorporating environmental uncertainty in fire spread modelling

<http://www.mssanz.org.au/modsim2017/H10/zazali.pdf>

<https://doi.org/10.36334/modsim.2017.H10.zazali>

Toward a stochastic precipitation generator conditioned on ENSO phase for eastern Australia

<http://www.mssanz.org.au/modsim2017/H11/anvo.pdf>

<https://doi.org/10.36334/modsim.2017.H11.anvo>

Future heatwaves in NSW from the NARCliM ensemble

<http://www.mssanz.org.au/modsim2017/H11/evans.pdf>

<https://doi.org/10.36334/modsim.2017.H11.evans>

Projected changes in frequency of suitable snowmaking conditions for the Australian Alps

<http://www.mssanz.org.au/modsim2017/H11/ji.pdf>

<https://doi.org/10.36334/modsim.2017.H11.ji>

High resolution regional climate model simulations available through the ACECRC Climate Futures team:  
What we have and how they can be used

<http://www.mssanz.org.au/modsim2017/H11/remenyi.pdf>

<https://doi.org/10.36334/modsim.2017.H11.remenyi>

Modelling hydrological changes in coastal catchments of New South Wales under future climate change

<http://www.mssanz.org.au/modsim2017/H11/young.pdf>

<https://doi.org/10.36334/modsim.2017.H11.young>

Advances in multi-sensor in situ remote sensing of forest canopy processes

<http://www.mssanz.org.au/modsim2017/H13/hughes.pdf>

<https://doi.org/10.36334/modsim.2017.H13.harris>

Method comparison for interrater reliability of an image processing technique in epilepsy subjects

<http://www.mssanz.org.au/modsim2017/I1/bartolucci.pdf>

<https://doi.org/10.36334/modsim.2017.I1.bartolucci>

Effective removal of air pollutions by the electrical discharge

<http://www.mssanz.org.au/modsim2017/I1/kim.pdf>

<https://doi.org/10.36334/modsim.2017.I1.kim>

Optimising the service of emergency department in a hospital

<http://www.mssanz.org.au/modsim2017/I2/allihaibi.pdf>

<https://doi.org/10.36334/modsim.2017.I2.allihaibi>

Automated Wrist Pulse diagnosis of Pancreatitis via Autoregressive Discriminant models

<http://www.mssanz.org.au/modsim2017/I2/lee.pdf>

<https://doi.org/10.36334/modsim.2017.I2.lee>

Size does matter: a simulation study of hospital size and operational efficiency

<http://www.mssanz.org.au/modsim2017/I3/bogomolov.pdf>

<https://doi.org/10.36334/modsim.2017.I3.bogomolov>

Comparing de-congestion scenarios using a hospital event simulation model

<http://www.mssanz.org.au/modsim2017/I3/hou.pdf>

<https://doi.org/10.36334/modsim.2017.I3.hou>

Towards a systematic approach to resource optimization management in the healthcare domain

<http://www.mssanz.org.au/modsim2017/I3/khaiter.pdf>

<https://doi.org/10.36334/modsim.2017.I3.khaiter>

Design of cognitive support for healthcare

<http://www.mssanz.org.au/modsim2017/I3/intern.pdf>

<https://doi.org/10.36334/modsim.2017.I3.lintern>

The network maintenance problem

<http://www.mssanz.org.au/modsim2017/J5/charkhgard.pdf>

<https://doi.org/10.36334/modsim.2017.J5.charkhgard>

Maintenance scheduling in a railway corridor

<http://www.mssanz.org.au/modsim2017/J5/eskandarzadeh.pdf>

<https://doi.org/10.36334/modsim.2017.J5.eskandarzadeh>

Whey reverse logistics network design: a stochastic hierarchical facility location model

<http://www.mssanz.org.au/modsim2017/J5/esmaeilbeigi.pdf>

<https://doi.org/10.36334/modsim.2017.J5.esmaeilbeigi>

The development of the sector risk profiling methodology for Australian civil aviation activity and its application to the small aeroplane transport sector

<http://www.mssanz.org.au/modsim2017/J5/lin.pdf>

<https://doi.org/10.36334/modsim.2017.J5.lin>

TraNSIT: Application to Australian agriculture

<http://www.mssanz.org.au/modsim2017/J5/mcfallan.pdf>

<https://doi.org/10.36334/modsim.2017.J5.mcfallan>

Iterative train scheduling in networks with tree topologies: a case study for the Hunter Valley Coal Chain

<http://www.mssanz.org.au/modsim2017/J5/mendes.pdf>

<https://doi.org/10.36334/modsim.2017.J5.mendes>

A heuristic algorithm for the Aircraft Landing Problem

<http://www.mssanz.org.au/modsim2017/J5/salehipour.pdf>

<https://doi.org/10.36334/modsim.2017.J5.salehipour>

Optimisation of perishable inventory items with geometric return rate of used product

<http://www.mssanz.org.au/modsim2017/J5/sanni.pdf>

<https://doi.org/10.36334/modsim.2017.J5.sanni>

Modelling irrigated sugarcane crop under seasonal climate variability: A case study in Burdekin district

<http://www.mssanz.org.au/modsim2017/J6/anvo.pdf>

<https://doi.org/10.36334/modsim.2017.J6.anvo>

The effect of social licence on dynamic decisions making: a case study of a gold mine

<http://www.mssanz.org.au/modsim2017/J6/chen.pdf>

<https://doi.org/10.36334/modsim.2017.J6.chen>

Using GPUs to improve computation time of optimal road design in ecologically-sensitive areas

<http://www.mssanz.org.au/modsim2017/J6/davey.pdf>

<https://doi.org/10.36334/modsim.2017.J6.davey>

A weighted sustainability index for selection of optimal operating plans

<http://www.mssanz.org.au/modsim2017/J6/godoy.pdf>

<https://doi.org/10.36334/modsim.2017.J6.godoy>

Field exploration: when to start extracting?

<http://www.mssanz.org.au/modsim2017/J6/langrene.pdf>

<https://doi.org/10.36334/modsim.2017.J6.langrene>

Optimal policies for aircraft fleet management in the presence of unscheduled maintenance

<http://www.mssanz.org.au/modsim2017/J6/looker.pdf>

<https://doi.org/10.36334/modsim.2017.J6.looker>

A hybrid decision making model for evaluating land combat vehicle system

<http://www.mssanz.org.au/modsim2017/J8/nguyen.pdf>

<https://doi.org/10.36334/modsim.2017.J6.nguyen>

Flood damages reduction with evacuation plans: Life Safety Model implementation on an Italian Basin

<http://www.mssanz.org.au/modsim2017/K1/frongia.pdf>

<https://doi.org/10.36334/modsim.2017.K1.frongia>

The effect of renewable energy technology uptake by the hotel sector

<http://www.mssanz.org.au/modsim2017/K4/dhirasasna.pdf>

<https://doi.org/10.36334/modsim.2017.K4.dhirasasna>

Structurally aware discretisation for Bayesian networks

<http://www.mssanz.org.au/modsim2017/K4/mayfield.pdf>

<https://doi.org/10.36334/modsim.2017.K4.mayfield>

Integrated modelling of contemporaneous multi-utility demand data from intelligent meters

<http://www.mssanz.org.au/modsim2017/K4/nguyen.pdf>

<https://doi.org/10.36334/modsim.2017.K4.nguyen>

Using system archetypes for problem framing and a qualitative analysis: a case study in Iranian water resource management

<http://www.mssanz.org.au/modsim2017/K4/zare.pdf>

<https://doi.org/10.36334/modsim.2017.K4.zare>

A novel integrated assessment framework for exploring possible futures for Australia: the GNOME.3 suite for the Australian National Outlook

<http://www.mssanz.org.au/modsim2017/K5/brinsmead.pdf>

<https://doi.org/10.36334/modsim.2017.K5.brinsmead>

Developing a common language for transdisciplinary modelling teams using a generic conceptual framework

<http://www.mssanz.org.au/modsim2017/K5/hamilton.pdf>

<https://doi.org/10.36334/modsim.2017.K5.hamilton>

Scaling down, scaling up: Development of a framework to understand vulnerability and change potential in the Hauraki, New Zealand

<http://www.mssanz.org.au/modsim2017/K5/kalaugher.pdf>

<https://doi.org/10.36334/modsim.2017.K5.kalaugher>

Beyond Planning: Implementation, reporting and investment strategies with the CAPER DSS

<http://www.mssanz.org.au/modsim2017/K5/kelly.pdf>

<https://doi.org/10.36334/modsim.2017.K5.kelly>

Putting the personal into risk measurement: exploring the roles of psychological and sociological factors in the perception of risk in the water industry

<http://www.mssanz.org.au/modsim2017/K5/kosovac.pdf>

<https://doi.org/10.36334/modsim.2017.K5.kosovac>

Uncertainty management during conceptual modelling: a cognitive mapping case study

<http://www.mssanz.org.au/modsim2017/K5/macadam.pdf>

<https://doi.org/10.36334/modsim.2017.K5.macadam>

Analytical Hierarchy Process coupled with GIS for land management purposes: A decision-making application

<http://www.mssanz.org.au/modsim2017/K7/rojas.pdf>

<https://doi.org/10.36334/modsim.2017.K7.rojas>

Rapid performance evaluation of government environmental science

<http://www.mssanz.org.au/modsim2017/K7/summerell.pdf>

<https://doi.org/10.36334/modsim.2017.K7.summerell>

Innovation policy analysis and decision making: a systems approach

<http://www.mssanz.org.au/modsim2017/K7/suprun.pdf>

<https://doi.org/10.36334/modsim.2017.K7.suprun>

The value of input metrics for assessing fundamental research

<http://www.mssanz.org.au/modsim2017/K7/tomecko.pdf>

<https://doi.org/10.36334/modsim.2017.K7.tomecko>

A spreadsheet application for evaluation sub-programs and projects Merit, Worth and Value

<http://www.mssanz.org.au/modsim2017/K7/young.pdf>

<https://doi.org/10.36334/modsim.2017.K7.young>

Assessment of anxiety on mathematics for students in secondary school in Qatar

<http://www.mssanz.org.au/modsim2017/K8/alzahrani.pdf>

<https://doi.org/10.36334/modsim.2017.K8.alzahrani>

Quantifying the value of information in reservoir operations

<http://www.mssanz.org.au/modsim2017/L1/jusuf.pdf>

<https://doi.org/10.36334/modsim.2017.L1.jusuf>

Re-imagining standard timescales in forecasting precipitation events for Queensland's grazing enterprises

<http://www.mssanz.org.au/modsim2017/L1/mccarthy.pdf>

<https://doi.org/10.36334/modsim.2017.L1.mccarthy>

Evolution of wetland monitoring from inventory to functional assessment and modelling: a case study from a US catchment

<http://www.mssanz.org.au/modsim2017/L1/yeo.pdf>

<https://doi.org/10.36334/modsim.2017.L1.yeo>

Urban water sustainability in Australian cities: using the National Water Account to indicate the resilience in water systems

<http://www.mssanz.org.au/modsim2017/L2/dutta.pdf>

<https://doi.org/10.36334/modsim.2017.L2.dutta>

Daily gridded evapotranspiration estimates for AustraliaInvited Paper

<http://www.mssanz.org.au/modsim2017/L2/frost.pdf>

<https://doi.org/10.36334/modsim.2017.L2.frost>

Updating the Atlas of Groundwater Dependent Ecosystems in response to user demand

<http://www.mssanz.org.au/modsim2017/L2/nation.pdf>

<https://doi.org/10.36334/modsim.2017.L2.nation>

Use of AWRA-R model to improve the National Water Account

<http://www.mssanz.org.au/modsim2017/L2/srikanthan.pdf>

<https://doi.org/10.36334/modsim.2017.L2.srikanthan>

Facilitating improved access and integrated use of data – a case study using the AWRA-L dataset

<http://www.mssanz.org.au/modsim2017/L2/yu.pdf>

<https://doi.org/10.36334/modsim.2017.L2.yu>

Fitting the Bartlett-Lewis rainfall model using Approximate Bayesian Computation

<http://www.mssanz.org.au/modsim2017/L3/aryal.pdf>

<https://doi.org/10.36334/modsim.2017.L3.aryal>

Non-linear multiple regression analysis for predicting seasonal streamflow using large scale climate mode  
<http://www.mssanz.org.au/modsim2017/L3/esha.pdf>  
https://doi.org/10.36334/modsim.2017.L3.esha

Seasonal streamflow prediction using large scale climate drivers for NSW region  
<http://www.mssanz.org.au/modsim2017/L3/esha2.pdf>  
https://doi.org/10.36334/modsim.2017.L3.esha2

Analysing the effect of lagged climate indices on rainfall predictability for Western Australia's North Coast Region  
<http://www.mssanz.org.au/modsim2017/L3/islam.pdf>  
https://doi.org/10.36334/modsim.2017.L3.islam

Application of lagged climate indices for forecasting autumn rainfall in South Coast region of Western Australia using ARIMA model  
<http://www.mssanz.org.au/modsim2017/L3/islam2.pdf>  
https://doi.org/10.36334/modsim.2017.L3.islam2

A satellite-based crop-factor hydrological model for broad-scale estimates of irrigated area, crop-water-requirement and crop phenology  
<http://www.mssanz.org.au/modsim2017/L4/weeks.pdf>  
https://doi.org/10.36334/modsim.2017.L4.weeks

Basin Futures: Supporting water planning in data poor basins  
<http://www.mssanz.org.au/modsim2017/L5/taylor.pdf>  
https://doi.org/10.36334/modsim.2017.L5.taylor

Challenges in the development of Current Conditions for the Lachlan River, New South Wales  
<http://www.mssanz.org.au/modsim2017/L6/hameed.pdf>  
https://doi.org/10.36334/modsim.2017.L6.hameed

Adoption of suitable objective functions for auto-calibration in eWater Source: An application to Upper Hunter catchments in Australia  
<http://www.mssanz.org.au/modsim2017/L6/haque.pdf>  
https://doi.org/10.36334/modsim.2017.L6.haque

Transition from water resource system modelling towards integrated water modelling: Melbourne Water's challenges and experiencesInvited Paper  
<http://www.mssanz.org.au/modsim2017/L6/kularathna.pdf>  
https://doi.org/10.36334/modsim.2017.L6.kularathna

Assessing residual inflow and loss estimates methods in river reach calibration using the Budyko Framework  
<http://www.mssanz.org.au/modsim2017/L6/neumann.pdf>  
https://doi.org/10.36334/modsim.2017.L6.neumann

Modelling changing catchment under the climate variability: a case study from a semi-arid catchment in the upper basin of the Goulburn River  
<http://www.mssanz.org.au/modsim2017/L7/binesh.pdf>  
https://doi.org/10.36334/modsim.2017.L7.binesh

The effectiveness of the CN method in areas with saturated soil conditions  
<http://www.mssanz.org.au/modsim2017/L7/boulomytis.pdf>  
https://doi.org/10.36334/modsim.2017.L7.boulomytis

Interpolation methods for the calibration of rainfall-runoff models in ungauged basins

<http://www.mssanz.org.au/modsim2017/L8/boulomytis.pdf>  
https://doi.org/10.36334/modsim.2017.L8.boulomytis

A new method of accounting for runoff dams  
<http://www.mssanz.org.au/modsim2017/L8/morden.pdf>  
https://doi.org/10.36334/modsim.2017.L8.morden

Coupled surface water and groundwater model development and calibration using MIKE SHE for the Greater Bunbury region in south-west Western Australia  
<http://www.mssanz.org.au/modsim2017/L9/alam.pdf>  
https://doi.org/10.36334/modsim.2017.L9.alam

A comparative assessment of two modelling approaches for simulation of nutrient dynamics in river basins using case studies in Japan and Australia  
<http://www.mssanz.org.au/modsim2017/L9/alam2.pdf>  
https://doi.org/10.36334/modsim.2017.L9.alam2

Process-based hydrological modelling in different permafrost environments  
<http://www.mssanz.org.au/modsim2017/L9/lebedeva.pdf>  
https://doi.org/10.36334/modsim.2017.L9.lebedeva

Comparing methods for determining flow routing parameters in models that underpin water resource planning in the Murray Darling Basin  
<http://www.mssanz.org.au/modsim2017/L10/brown.pdf>  
https://doi.org/10.36334/modsim.2017.L10.brown

Improved understanding of dense jet dynamics to guide management of desalination outfalls  
<http://www.mssanz.org.au/modsim2017/L11/baum.pdf>  
https://doi.org/10.36334/modsim.2017.L11.baum

Building a comprehensive spatio-temporal database of floodplain inundation for environmental management in the Murray-Darling Basin, Australia  
<http://www.mssanz.org.au/modsim2017/L12/dutta.pdf>  
https://doi.org/10.36334/modsim.2017.L12.dutta

Importance of dispersion for shoaling waves  
<http://www.mssanz.org.au/modsim2017/L12/pitt.pdf>  
https://doi.org/10.36334/modsim.2017.L12.pitt

Preliminary study on the correspondence of turning points between global flood occurrences and polar motion  
<http://www.mssanz.org.au/modsim2017/L14/liu.pdf>  
https://doi.org/10.36334/modsim.2017.L14.liu

Statistical technique for assessing trends in drought occurrence – a case study  
<http://www.mssanz.org.au/modsim2017/L14/rahman.pdf>  
https://doi.org/10.36334/modsim.2017.L14.rahman

Future runoff projections for Australia and science challenges in producing next generation projections  
<http://www.mssanz.org.au/modsim2017/L16/chiew.pdf>  
https://doi.org/10.36334/modsim.2017.L16.chiew

Stochastic Gradient Approach for energy and supply optimization in water systems management  
<http://www.mssanz.org.au/modsim2017/L17/gaivoronski.pdf>  
https://doi.org/10.36334/modsim.2017.L17.gaivoronski

Investigation of sustainable national water resources management of India in a changing climate

<http://www.mssanz.org.au/modsim2017/L17/joseph.pdf>

<https://doi.org/10.36334/modsim.2017.L17.joseph>

Initial analysis of water budget in Koshi Basin, Nepal: assumptions and limitations

<http://www.mssanz.org.au/modsim2017/L17/penton.pdf>

<https://doi.org/10.36334/modsim.2017.L17.penton>

Comparative study of the methods for estimating streamflow at ungauged sites

<http://www.mssanz.org.au/modsim2017/L17/xiao.pdf>

<https://doi.org/10.36334/modsim.2017.L17.xiao>

Optimising water treatment operations with prediction modelling and smart technologies

<http://www.mssanz.org.au/modsim2017/L18/bertone.pdf>

<https://doi.org/10.36334/modsim.2017.L18.bertone>

Incorporating economic cost data in water resources modelling

<http://www.mssanz.org.au/modsim2017/L18/godoy.pdf>

<https://doi.org/10.36334/modsim.2017.L18.godoy>

Multi-criteria decision analysis for hybrid water supply systems

<http://www.mssanz.org.au/modsim2017/L18/sapkota.pdf>

<https://doi.org/10.36334/modsim.2017.L18.sapkota>

Hydrological modelling for conjunctive water use in the Murrumbidgee Catchment: groundwater recharge estimation

<http://www.mssanz.org.au/modsim2017/L18/zhu.pdf>

<https://doi.org/10.36334/modsim.2017.L18.zhu>

A coupled hydrological-hydraulic flash flood forecasting system for Kuala Lumpur's Stormwater Management and Road Tunnel (SMART)

<http://www.mssanz.org.au/modsim2017/L19/cohen.pdf>

<https://doi.org/10.36334/modsim.2017.L19.cohen>

Performance evaluation of the national 7-day water forecast service

<http://www.mssanz.org.au/modsim2017/L19/hapuarachchi.pdf>

<https://doi.org/10.36334/modsim.2017.L19.hapuarachchi>

Quantification of hydrological uncertainty in short lead time forecast of levels in frequently spilling reservoirs

<http://www.mssanz.org.au/modsim2017/L19/pokhrel.pdf>

<https://doi.org/10.36334/modsim.2017.L19.pokhrel>

Seasonal soil moisture forecasting using the AWRA landscape water balance model

<http://www.mssanz.org.au/modsim2017/L19/vogel.pdf>

<https://doi.org/10.36334/modsim.2017.L19.vogel>

Estimating surface energy fluxes: a key component for estimating potential evaporation

<http://www.mssanz.org.au/modsim2017/L20/croke.pdf>

<https://doi.org/10.36334/modsim.2017.L20.croke>

Multi-objective calibration of Xinanjiang model by using streamflow and evapotranspiration

<http://www.mssanz.org.au/modsim2017/L20/li.pdf>

<https://doi.org/10.36334/modsim.2017.L20.li>

Concepts, philosophy and methods for development of a general linear statistical model for river water quality

<http://www.mssanz.org.au/modsim2017/L21/cook.pdf>

<https://doi.org/10.36334/modsim.2017.L21.cook>

Dispersion in solute transport models: concepts and limitations in simple models

<http://www.mssanz.org.au/modsim2017/L21/cook2.pdf>

<https://doi.org/10.36334/modsim.2017.L21.cook2>

Conceptual modelling for water quality management

<http://www.mssanz.org.au/modsim2017/L21/fu.pdf>

<https://doi.org/10.36334/modsim.2017.L21.fu>

Understanding the spatial variability in catchment dynamics: a case study of 107 stream catchments in Victoria, Australia

<http://www.mssanz.org.au/modsim2017/L21/lintern.pdf>

<https://doi.org/10.36334/modsim.2017.L21.lintern>

Modelling Pittwater Lagoon for risk assessment of an effluent spill

<http://www.mssanz.org.au/modsim2017/L21/wildallen.pdf>

<https://doi.org/10.36334/modsim.2017.L21.wildallen>

Assessment of the GBR Source Catchments model to estimate fine-sediment streambank erosion and sediment export

<http://www.mssanz.org.au/modsim2017/L22/baheerathan.pdf>

<https://doi.org/10.36334/modsim.2017.L22.baheerathan>

River plumes of the Great Barrier Reef: freshwater, sediment and optical footprints quantified by the eReefs modelling system

<http://www.mssanz.org.au/modsim2017/L22/baird.pdf>

<https://doi.org/10.36334/modsim.2017.L22.bairn>

Sensitivity analysis of constituent generation parameters of an integrated hydrological and water quality model using a GMDH polynomial neural network

<http://www.mssanz.org.au/modsim2017/L22/bennett.pdf>

<https://doi.org/10.36334/modsim.2017.L22.bennett>

Use of remote imagery to verify modelled streambank retreat rates

<http://www.mssanz.org.au/modsim2017/L22/binns.pdf>

<https://doi.org/10.36334/modsim.2017.L22.binns>

Pollutant target setting for the Great Barrier Reef: Using the eReefs framework

<http://www.mssanz.org.au/modsim2017/L22/brodie.pdf>

<https://doi.org/10.36334/modsim.2017.L22.brodie>

Improving gully density maps for modelling water quality within Great Barrier Reef Catchments

<http://www.mssanz.org.au/modsim2017/L22/darr.pdf>

<https://doi.org/10.36334/modsim.2017.L22.darr>

Great Barrier Reef Source modelling: Assessing hillslope erosion modelling performance at paddock scale experimental sites

<http://www.mssanz.org.au/modsim2017/L22/dougall.pdf>

<https://doi.org/10.36334/modsim.2017.L22.dougall>

Simple sensitivity analysis of a catchment scale water quality model at a range of spatio-temporal scales

<http://www.mssanz.org.au/modsim2017/L22/fentie.pdf>

<https://doi.org/10.36334/modsim.2017.L22.fentie>

Advancing water modelling through networks and engagement

<http://www.mssanz.org.au/modsim2017/L22/lawrence.pdf>

<https://doi.org/10.36334/modsim.2017.L22.lawrence>

Modelling the impact of land use and catchment characteristics on stream water quality using a Bayesian hierarchical modelling approach in the Great Barrier Reef catchments

<http://www.mssanz.org.au/modsim2017/L22/liu.pdf>

<https://doi.org/10.36334/modsim.2017.L22.liu>

Visualising spatio-temporal modelling results: Getting modelling results into the hands of decision makers

<http://www.mssanz.org.au/modsim2017/L22/marsh.pdf>

<https://doi.org/10.36334/modsim.2017.L22.marsh>

Validation and calibration of Source water quality models in the Great Barrier Reef catchments

<http://www.mssanz.org.au/modsim2017/L22/mccloskey.pdf>

<https://doi.org/10.36334/modsim.2017.L22.mccloskey>

Modelling reductions of soil erosion and pesticide loads from grain cropping due to improved management practices in the Great Barrier Reef catchments

<http://www.mssanz.org.au/modsim2017/L22/owens.pdf>

<https://doi.org/10.36334/modsim.2017.L22.owens>

Evaluating the eReefs Great Barrier Reef marine model against observed emergent properties

<http://www.mssanz.org.au/modsim2017/L22/robson.pdf>

<https://doi.org/10.36334/modsim.2017.L22.robson>

Assessing the cost for pollutant load reductions in the Great Barrier Reef: a case study

<http://www.mssanz.org.au/modsim2017/L22/star.pdf>

<https://doi.org/10.36334/modsim.2017.L22.star>

Calculating sediment trapping efficiency for reservoirs in series

<http://www.mssanz.org.au/modsim2017/L22/waters.pdf>

<https://doi.org/10.36334/modsim.2017.L22.waters>

A sediment budget for the Queensland Murray Darling Basin

<http://www.mssanz.org.au/modsim2017/L23/davidson.pdf>

<https://doi.org/10.36334/modsim.2017.L23.davidson>

Modelling the runoff, nutrient and sediment loadings in the Torrens river catchment, South Australia using SWAT

<http://www.mssanz.org.au/modsim2017/L23/nguyen.pdf>

<https://doi.org/10.36334/modsim.2017.L23.nguyen>