

## MODSIM2013

Using SIMULINK® to model and simulate supplier evaluation and selection problem

<https://www.mssanz.org.au/modsim2013/A1/abuajamieh.pdf>

<https://doi.org/10.36334/modsim.2013.A1.abuajamieh>

An index of carcinogenesis using pairwise consistency

<https://www.mssanz.org.au/modsim2013/A1/bhavnagri.pdf>

<https://doi.org/10.36334/modsim.2013.A1.bhavnagri>

A symmetry analysis of non-autonomous von Bertalanffy equations

<https://www.mssanz.org.au/modsim2013/A1/edwards.pdf>

<https://doi.org/10.36334/modsim.2013.A1.edwards>

Multi-level grade control in a mining supply chain DEM

<https://www.mssanz.org.au/modsim2013/A1/grigoleit.pdf>

<https://doi.org/10.36334/modsim.2013.A1.grigoleit>

Modelling of temporal combustion behaviour in a large-scale buoyant pool fire with detailed chemistry consideration

<https://www.mssanz.org.au/modsim2013/A1/hu.pdf>

<https://doi.org/10.36334/modsim.2013.A1.hu>

Simulation of an innovative public transport system

<https://www.mssanz.org.au/modsim2013/A1/kilby.pdf>

<https://doi.org/10.36334/modsim.2013.A1.kilby>

Rim and tyre investigation for the in-wheel motor of an electric vehicle using simulations

<https://www.mssanz.org.au/modsim2013/A1/kulkarni.pdf>

<https://doi.org/10.36334/modsim.2013.A1.kulkarni>

Patient flow simulation modelling – an approach conducive to multi-disciplinary collaboration towards hospital capacity management

<https://www.mssanz.org.au/modsim2013/A1/mackay.pdf>

<https://doi.org/10.36334/modsim.2013.A1.mackay>

Container packing problem for stochastic inventory and optimal ordering through integer programming

<https://www.mssanz.org.au/modsim2013/A1/nazari.pdf>

<https://doi.org/10.36334/modsim.2013.A1.nazari>

Impact of virtual training on safety and productivity in the mining industry

<https://www.mssanz.org.au/modsim2013/A1/pedram.pdf>

<https://doi.org/10.36334/modsim.2013.A1.pedram>

Modelling motor vehicle emissions and population exposure in South Australia

<https://www.mssanz.org.au/modsim2013/A1/schultz.pdf>

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Analysis of queuing scheduling linkage model to minimize the hiring cost of machines/equipments

<https://www.mssanz.org.au/modsim2013/A1/sharma.pdf>

<https://doi.org/10.36334/modsim.2013.A1.sharma>

An environmental and economic performance measure for industrial supply networks

<https://www.mssanz.org.au/modsim2013/A1/shokravi.pdf>

<https://doi.org/10.36334/modsim.2013.A1.shokravi>

Data-driven modelling and analysis of household travel mode choice

<https://www.mssanz.org.au/modsim2013/A1/shukla.pdf>

<https://doi.org/10.36334/modsim.2013.A1.shukla>

Multiplicity in combustion wave behaviour for a model with competing exothermic reactions

<https://www.mssanz.org.au/modsim2013/A1/towers.pdf>

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The aggregate association index and its links with common measurements of association in a 2x2 table: an analysis of early New Zealand gendered voting data

<https://www.mssanz.org.au/modsim2013/A1/tran.pdf>

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Analysis of trends in temperature and rainfall in selected regions of Australia over the last 100 years

<https://www.mssanz.org.au/modsim2013/A10/makuei.pdf>

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Multifractal analysis of wind farm power output

<https://www.mssanz.org.au/modsim2013/A10/mcarthur.pdf>

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Modelling the spread and growth of *Caulerpa taxifolia* in closed waterways in southern Australia using cellular automata

<https://www.mssanz.org.au/modsim2013/A10/mcarthur2.pdf>

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An investigation of cool roofing on urban street canyon air quality

<https://www.mssanz.org.au/modsim2013/A10/naidu.pdf>

<https://doi.org/10.36334/modsim.2013.A10.naidu>

Detecting the infrastructural, demographic and climatic changes on macroalgal blooms using simulation modelling

<https://www.mssanz.org.au/modsim2013/A10/oneill.pdf>

<https://doi.org/10.36334/modsim.2013.A10.oneill>

Optimisation modelling for gas supply in Eastern Australia

<https://www.mssanz.org.au/modsim2013/A10/plummer.pdf>

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Multi-model ensemble simulation of flood events using Bayesian Model averaging

<https://www.mssanz.org.au/modsim2013/A10/zhu.pdf>

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Characterising mineral slurry dewatering through laboratory centrifugation

<https://www.mssanz.org.au/modsim2013/A11/berres.pdf>

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A process-based simulation model for strategic mine water management

<https://www.mssanz.org.au/modsim2013/A11/gao.pdf>

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Secure mine water use with compliant discharge

<https://www.mssanz.org.au/modsim2013/A11/gao2.pdf>

<https://doi.org/10.36334/modsim.2013.A11.gao2>

A multi-criteria evaluation of water management for sustainable development in mining

<https://www.mssanz.org.au/modsim2013/A11/zhang.pdf>

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A scenario model for mine water management under extreme climate variability

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Sparse regularization of NIR spectra using implicit spiking and derivative spectroscopy

<https://www.mssanz.org.au/modsim2013/A2/anderssen2.pdf>

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A first approach to resolving ambiguity in hidden terrorist group detection in communications networks

<https://www.mssanz.org.au/modsim2013/A2/bogomolov.pdf>

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Correcting for finite probe diameter in the dual probe heat pulse method of measuring soil water content

<https://www.mssanz.org.au/modsim2013/A2/knight.pdf>

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Inverse of magnetic dipole field using a reversible jump Markov chain Monte Carlo

<https://www.mssanz.org.au/modsim2013/A2/luo.pdf>

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Art authentication from an inverse problems perspective

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An efficient closure based method for inverse climate modelling

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High-resolution bushfire hazard mapping of the current and future climate to inform planning for the Rockhampton region

<https://www.mssanz.org.au/modsim2013/A3/cechet.pdf>

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Will environmental revegetation increase the threat wildfire poses to assets?

<https://www.mssanz.org.au/modsim2013/A3/collins.pdf>

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A comparison of the fire weather characteristics of the Melbourne dust storm (1983) and Black Saturday (2009): a high-resolution ACCESS case study

<https://www.mssanz.org.au/modsim2013/A3/fawcett.pdf>

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FireDST: Fire Impact and Risk Evaluation Decision Support Tool – model description

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Meteorological aspects of the Margaret River fires of November 2011

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A process model for forecasting conditions conducive to blow-up fire events

<https://www.mssanz.org.au/modsim2013/A3/mcrae.pdf>

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Assessing the exposure risk of regional populations to smoke from fires

<https://www.mssanz.org.au/modsim2013/A3/meyer.pdf>

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Smoke impacts from prescribed burning in Victoria; developing a risk climatology

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A 40-year mesoscale gridded fire weather climatology for Victoria – an overview

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Characterising forest wind profiles for utilisation in fire spread models

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The effect of fire channelling on fire severity in the 2009 Victorian fires, Australia

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Wildland–urban interface (WUI) fire modelling using PHOENIX Rapidfire: A case study in Cavailon, France

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Building Fire Impact Model

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Mapping of Australian fire weather potential: observational and modelling studies

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A fire spread index for grassland fuels

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Modelling fire line merging using plane curvature flow

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Examination of wind speed thresholds for vorticity-driven lateral fire spread

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Atmosphere-fire simulation of effects of low-level jets on pyro-convective plume dynamics

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High-resolution WRF simulation of fire weather associated with the Mt Cook Station fire

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From "wildlife-urban interface" to "wildfire interface zone" using dynamic fire modelling

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Curvature flows and barriers in fire front modelling

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Predictions on arrival times of water of the St. Francis dam break flood using ANUGA

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High resolution tsunami inundation simulations

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On epidemic models with non-linear cross-diffusion

<https://www.mssanz.org.au/modsim2013/A5/berres.pdf>

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Analysis of importance of brief encounters for epidemic spread

<https://www.mssanz.org.au/modsim2013/A5/dawson.pdf>

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Network centrality and super-spreaders in infectious disease epidemiology

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Modelling the seasonality of respiratory syncytial virus in young children

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Modelling the spread of livestock disease on a national scale: the case for a hybrid approach

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Using Bayesian hierarchical models to measure and predict the effectiveness of environmental flows for ecological responses

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Filling gaps in daily rainfall data: a statistical approach

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Predicting the spatial distribution of seabed gravel content using random forest, spatial interpolation methods and their hybrid methods

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A novel image based end-member extraction technique to map green, non-photosynthetic and bare soil fractions using Landsat data

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A phenotyping platform for transgenic wheat: method and initial results

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Modelling the response in streamflow to increased forestry plantations

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<https://www.mssanz.org.au/modsim2013/B2/beautrais.pdf>

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Optimal selection of whey processing facilities and technology

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Does increasing ewe fecundity reduce whole-farm greenhouse gas emissions intensities?

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High-resolution continental scale modelling of Australian wheat yield; biophysical and management drivers

<https://www.mssanz.org.au/modsim2013/B2/king.pdf>

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Temperature increase and cotton crop phenology

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Modelling water and salinity distribution in soil under advance fertigation systems in horticultural Crops

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Potential for land use change to dairy in Southland, New Zealand: impact on profitability and emissions to air and water

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Modelling and simulation of tactile sensing system of fingers for intelligent robotic manipulation



Control

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Intelligent submersible manipulator-robot, design, modeling, simulation and motion optimization for maritime robotic research

<https://www.mssanz.org.au/modsim2013/C10/guo.pdf>

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Gene expression based computer aided diagnosis system for breast cancer: a novel biological filter for biomarker detection

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Mathematical modelling of p53 basal dynamics and DNA damage response

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Hydrologic model parameter optimisation

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Comparison of computational and semi-empirical aerodynamics tools for making fit-for-purpose modelling decisions

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On wavelet based modeling of neural networks using graph theoretic approach

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Planning with Lanier ultra-short stable slatwings of 1920s-1970s budget Vacu/Para-planes

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Impact of calibration data variability on rainfall-runoff modeling performance in data-limited basins

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Reliability analysis for rainwater harvesting system in peri-urban regions of Greater Sydney, Australia

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Challenges for including error updating in real-time hydrological error models

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Probabilistic flood hydrographs using Monte Carlo simulation: potential impact to flood inundation mapping

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Analysing lagged ENSO and IOD as potential predictors for long-term rainfall forecasting using multiple regression modelling

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Capability of Artificial Neural Networks for predicting long-term seasonal rainfalls in east Australia

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Data driven statistical model for manganese concentration prediction in drinking water reservoirs

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CatStream: an integrated catchment-stream water quality model



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Modelling pollutants transport and degradation through wetlands

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An MILP model for cost-effective water treatment synthesis

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<https://www.mssanz.org.au/modsim2013/L9/rahman.pdf>

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Real-time numerical simulation of storm surge inundation using high-performance computing for disaster management, Queensland

<https://www.mssanz.org.au/modsim2013/M1/burston.pdf>

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Initial analysis of fire weather characteristics between south-east Australia and south-west of Western Australia

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Information integration for emergency management: recent CSIRO case studies

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