

MODSIM2015

Adopting Lean Six Sigma to AnyLogic Simulation in a manufacturing environment

<https://doi.org/10.36334/MODSIM.2015.A1.Ahmed>

<http://www.mssanz.org.au/modsim2015/A1/ahmed.pdf>

A simple population model with a stochastic carrying capacity

<https://doi.org/10.36334/MODSIM.2015.A1.Anderson>

<http://www.mssanz.org.au/modsim2015/A1/anderson.pdf>

Filtration efficiency of bubble scrubbers

<https://doi.org/10.36334/MODSIM.2015.A1.Braddock>

<http://www.mssanz.org.au/modsim2015/A1/braddock.pdf>

Dynamics of a discrete population model with variable carrying capacity

<https://doi.org/10.36334/MODSIM.2015.A1.Dose>

<http://www.mssanz.org.au/modsim2015/A1/dose.pdf>

Effective method for locating facilities

<https://doi.org/10.36334/MODSIM.2015.A1.Dzator>

<http://www.mssanz.org.au/modsim2015/A1/dzator.pdf>

Investigating flame fronts in competitive exothermic reactions

<https://doi.org/10.36334/MODSIM.2015.A1.Huang>

<http://www.mssanz.org.au/modsim2015/A1/huang.pdf>

Internal versus external complexity: how organizations react

<https://doi.org/10.36334/MODSIM.2015.A1.Jamshidnezhad>

<http://www.mssanz.org.au/modsim2015/A1/jamshidnezhad.pdf>

Multi-objective optimization of thermal comfort and energy consumption in a typical office room using CFD and NSM-PSO

https://doi.org/10.36334/MODSIM.2015.A1.Li_n

http://www.mssanz.org.au/modsim2015/A1/li_n.pdf

Texture-based identification of inert-maceral derived components in metallurgical coke

https://doi.org/10.36334/MODSIM.2015.A1.Li_r

http://www.mssanz.org.au/modsim2015/A1/li_r.pdf

Effects of climate, objective function and sample size on global sensitivity in a SWAT Model

<https://doi.org/10.36334/MODSIM.2015.A1.Seo>

<http://www.mssanz.org.au/modsim2015/A1/seo.pdf>

A continuous genetic algorithm for the calibration of a sedimentation model

<https://doi.org/10.36334/MODSIM.2015.A2.Berres>

<http://www.mssanz.org.au/modsim2015/A2/berres.pdf>

Multi-fidelity surrogate-based parameter estimation for a sailing yacht hull

<https://doi.org/10.36334/MODSIM.2015.A2.Debaar>

<http://www.mssanz.org.au/modsim2015/A2/debaar.pdf>

Reduced Basis Model Reduction for Statistical Inverse Problems with applications in Tsunami Modelling

<https://doi.org/10.36334/MODSIM.2015.A2.Debaar2>

<http://www.mssanz.org.au/modsim2015/A2/debaar2.pdf>

Interpolatory Inequalities for First Kind Convolution Volterra Integral Equations

<https://doi.org/10.36334/MODSIM.2015.A2.Hegland>

<http://www.mssanz.org.au/modsim2015/A2/hegland.pdf>

Calibration of hydrological models allowing for timing offsets

<https://doi.org/10.36334/MODSIM.2015.A2.Lerat>

<http://www.mssanz.org.au/modsim2015/A2/lerat.pdf>

Rainfall simulation from an inverse problems perspective

<https://doi.org/10.36334/MODSIM.2015.A2.Piantadosi>

<http://www.mssanz.org.au/modsim2015/A2/piantadosi.pdf>

On the efficient use of satellite data to improve volcanic ash dispersion modelling

<http://www.mssanz.org.au/modsim2015/A2/zidikheri.pdf>

<https://doi.org/10.36334/MODSIM.2015.A2.Zidikheri>

Propagation of measurement uncertainty in spatial characterisation of recreational fishing catch rates using logistic transform indicator kriging

<https://doi.org/10.36334/MODSIM.2015.A3.Aidoo>

<http://www.mssanz.org.au/modsim2015/A3/aidoo.pdf>

Evaluating ecological niche modelling techniques

<https://doi.org/10.36334/MODSIM.2015.A3.dekker>

<http://www.mssanz.org.au/modsim2015/A3/dekker.pdf>

Maximal autocorrelation factors for function-valued spatial/temporal data

<https://doi.org/10.36334/MODSIM.2015.A3.Hooker>

<http://www.mssanz.org.au/modsim2015/A3/hooker.pdf>

Predicting the spatial distribution of seabed hardness based on multiple categorical data using random forest

<https://doi.org/10.36334/MODSIM.2015.A3.Li>

<http://www.mssanz.org.au/modsim2015/A3/li.pdf>

A surface cover change detection method based on the Australian Geoscience Data Cube

<https://doi.org/10.36334/MODSIM.2015.A3.Tan>

<http://www.mssanz.org.au/modsim2015/A3/tan.pdf>

A Multiple-point Geostatistics Method for filling gaps in Landsat ETM+ SLC-off images

<https://doi.org/10.36334/MODSIM.2015.A3.Yin>

<http://www.mssanz.org.au/modsim2015/A3/yin.pdf>

Predicting potential spatial distribution of Toothed Leionema (*Leionema Bilobum* sub sp. *Serrulatum*) using Weights-of-Evidence modelling with GIS

<https://doi.org/10.36334/MODSIM.2015.A3.Zhu>

<http://www.mssanz.org.au/modsim2015/A3/zhu.pdf>

An augmented level set model for the propagation of bushfire fronts

<https://doi.org/10.36334/MODSIM.2015.A4.Berres>

<http://www.mssanz.org.au/modsim2015/A4/berres.pdf>

Effectiveness of automated fuelsticks for predicting the moisture content of dead fuels in Eucalyptus forests

<https://doi.org/10.36334/MODSIM.2015.A4.Bovill>

<http://www.mssanz.org.au/modsim2015/A4/bovill.pdf>

Inter-comparison of land surface model soil moisture data with traditional soil dryness indices

<https://doi.org/10.36334/MODSIM.2015.A4.Dharssi>

<http://www.mssanz.org.au/modsim2015/A4/dharssi.pdf>

Revisiting the King's Cross Underground disaster with implications for modelling wildfire eruption

<https://doi.org/10.36334/MODSIM.2015.A4.Edgar>

<http://www.mssanz.org.au/modsim2015/A4/edgar.pdf>

Modelling overland flow on burned hillslopes using the KINEROS2 model

<https://doi.org/10.36334/MODSIM.2015.A4.Kasmaei>

<http://www.mssanz.org.au/modsim2015/A4/kasmaei.pdf>

WRF-Fire simulation of pyro-convection under the influence of low-level jet wind profiles

<https://doi.org/10.36334/MODSIM.2015.A4.Katurji>

<http://www.mssanz.org.au/modsim2015/A4/katurji.pdf>

Fire spread prediction using a lagged weather forecast ensemble

<https://doi.org/10.36334/MODSIM.2015.A4.Louis>

<http://www.mssanz.org.au/modsim2015/A4/louis.pdf>

Modeling Australia's fire seasonality

<https://doi.org/10.36334/MODSIM.2015.A4.Mcrae>

<http://www.mssanz.org.au/modsim2015/A4/mcrae.pdf>

Assessing mitigation of the risk from extreme wildfires using MODIS hotspot data

<https://doi.org/10.36334/MODSIM.2015.A4.Mcrae2>

<http://www.mssanz.org.au/modsim2015/A4/mcrae2.pdf>

Integration of remote sensing data with bushfire prediction models

<https://doi.org/10.36334/MODSIM.2015.A4.Miller>

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Measurement of topographic controls on the moisture content of surface fuels in south east Australian forests

<https://doi.org/10.36334/MODSIM.2015.A4.Nyman>

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A fire regime risk management tool

<https://doi.org/10.36334/MODSIM.2015.A4.Penman>

<http://www.mssanz.org.au/modsim2015/A4/penman.pdf>

Effects of post-fire vegetation regrowth on wind fields over complex terrain

<https://doi.org/10.36334/MODSIM.2015.A4.Quill>

<http://www.mssanz.org.au/modsim2015/A4/quill.pdf>

Dynamic development of the 2013 Aberfeldy fire

<https://doi.org/10.36334/MODSIM.2015.A4.Quill2>

<http://www.mssanz.org.au/modsim2015/A4/quill2.pdf>

Pyrogenic vorticity from windward and lee slope fires

<https://doi.org/10.36334/MODSIM.2015.A4.Sharples>

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A rate of spread index for fires in spinifex fuels

<https://doi.org/10.36334/MODSIM.2015.A4.Sharples2>

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WRF-Fire simulation of lateral fire spread in the Bendora Fire on 18 January 2003

<https://doi.org/10.36334/MODSIM.2015.A4.Simpson>

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Pyroconvective interaction of two merged fire lines: curvature effects and dynamic fire spread

<https://doi.org/10.36334/MODSIM.2015.A4.Thomas>

<http://www.mssanz.org.au/modsim2015/A4/thomas.pdf>

Modelling dynamic bushfire spread: perspectives from the theory of curvature flow

<https://doi.org/10.36334/MODSIM.2015.A4.Wheeler>

<http://www.mssanz.org.au/modsim2015/A4/wheeler.pdf>

Development of spatial models for bushfire occurrence in South-Eastern Australia

<https://doi.org/10.36334/MODSIM.2015.A4.Zhang>

<http://www.mssanz.org.au/modsim2015/A4/zhang.pdf>

Using APSIM, C# and R to create and analyse large datasets

<https://doi.org/10.36334/MODSIM.2015.B1.Fainges>

<http://www.mssanz.org.au/modsim2015/B1/fainges.pdf>

Modelling mixed farming enterprises using AusFarm

<https://doi.org/10.36334/MODSIM.2015.B1.Herrmann>

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APSIM Next Generation: The final frontier?

<https://doi.org/10.36334/MODSIM.2015.B1.Holzworth>

<http://www.mssanz.org.au/modsim2015/B1/holzworth.pdf>

A framework for uncertainty evaluation of agricultural computer simulation models with a focus on allocation of uncertainty to model components

<https://doi.org/10.36334/MODSIM.2015.B1.meenken>

<http://www.mssanz.org.au/modsim2015/B1/meenken.pdf>

Automated satellite-based estimation of crop water requirement for irrigated horticultural industries in Northern Victoria

<https://doi.org/10.36334/MODSIM.2015.B1.Weeks>

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Making the most of secure water: a framework to aid decision making

<https://doi.org/10.36334/MODSIM.2015.B2.Shahpari>

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Spatially explicit individual-based modelling of insect-plant interactions: effects of level of detail in Queensland fruit fly models

<https://doi.org/10.36334/MODSIM.2015.B2.Wang>

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Integrating biophysical and whole-farm economic modelling of agricultural climate change mitigation

<https://doi.org/10.36334/MODSIM.2015.B3.Dumbrell>

<http://www.mssanz.org.au/modsim2015/B3/dumbrell.pdf>

Modelling the impact of climate variability and irrigation on winter canola yield and yield gap in Southwest China

<https://doi.org/10.36334/MODSIM.2015.B3.He>

<http://www.mssanz.org.au/modsim2015/B3/he.pdf>

Potential of increasing yield while mitigating climate change in Australian wheat systems: a simulation study

<https://doi.org/10.36334/MODSIM.2015.B3.Luo>

<http://www.mssanz.org.au/modsim2015/B3/luo.pdf>

[Quantifying key sources of variability in cover crop reduction of N leaching](#)

<https://doi.org/10.36334/MODSIM.2015.B3.Teixeira>

<http://www.mssanz.org.au/modsim2015/B3/teixeira.pdf>

Predictions of nitrogen leaching from a well-drained soil under dryland and irrigated dairy farming using APSIM and OVERSEER

<https://doi.org/10.36334/MODSIM.2015.B3.Vibart>

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Potential impact of increased heat tolerance of grain formation on maize yield under future warming

<https://doi.org/10.36334/MODSIM.2015.B3.Zhang>

<http://www.mssanz.org.au/modsim2015/B3/zhang.pdf>

Modelling nitrogen uptake by sugarcane crops to inform synchrony of N supply from controlled release fertiliser

<https://doi.org/10.36334/MODSIM.2015.B3.Zhao>

<http://www.mssanz.org.au/modsim2015/B3/zhao.pdf>

Spatially discrete linear optimization of manure transports with a focus on supply for biomass power plants in agriculture

<https://doi.org/10.36334/MODSIM.2015.B4.Biberacher>

<http://www.mssanz.org.au/modsim2015/B4/biberacher.pdf>

Model-based explorations to assess climate risk to summer crop production and its effects on wheat yield in the central wheatbelt of Western Australia

<https://doi.org/10.36334/MODSIM.2015.B4.chen>

<http://www.mssanz.org.au/modsim2015/B4/chen.pdf>

A new model to investigate whether regional crop rotation strategies can protect crops from fungal pathogens

<https://doi.org/10.36334/MODSIM.2015.B4.Crete>

<http://www.mssanz.org.au/modsim2015/B4/crete.pdf>

A new evaluation system to estimate the impact of Coal Seam Gas activity on economic returns of agriculture

<https://doi.org/10.36334/MODSIM.2015.B4.Marinoni>

<http://www.mssanz.org.au/modsim2015/B4/marinoni.pdf>

Statistical ensemble models to forecast the Australian macadamia crop

<https://doi.org/10.36334/MODSIM.2015.B4.Mayer>

<http://www.mssanz.org.au/modsim2015/B4/mayer.pdf>

Covariance analysis of sugarcane variety experiments (*Saccharum* spp.) in contrasting environments

<https://doi.org/10.36334/MODSIM.2015.B4.Rodriguez>

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Predicting pasture nitrogen content using ANN Models and thermal images

<https://doi.org/10.36334/MODSIM.2015.B4.Safa>

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Does adding a spatial component to a herbicide resistance population model improve understanding and predictions of the buildup of herbicide resistance over time?

<https://doi.org/10.36334/MODSIM.2015.B4.Somerville>

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Extending "SafeGauge for Nutrients" to rainfed dairy systems in Victoria, Australia

<https://doi.org/10.36334/MODSIM.2015.B4.Thayalakumaran>

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Transformation of the BeefSpecs fat calculator: Addressing eating quality and production efficiency with on-farm decision making

<https://doi.org/10.36334/MODSIM.2015.B4.Walmsley>

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Modelling the dynamics of Vernalization: The role of conceptualization in model formulation

<https://doi.org/10.36334/MODSIM.2015.B6.anderssen>

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High throughput root phenotyping for cereal plants using spatial distribution in polar coordinate system

<https://doi.org/10.36334/MODSIM.2015.B6.Cai>

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Gaussian Mixture Models for image-based cereal plant canopy analysis

<https://doi.org/10.36334/MODSIM.2015.B6.Laga>

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Growth measurement of Arabidopsis in 2.5D from a high throughput phenotyping platform

<https://doi.org/10.36334/MODSIM.2015.B6.Li>

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A model of oxygen and nitrogen biogeochemical response to hydrodynamic regimes in the Yarra River estuary

<https://doi.org/10.36334/MODSIM.2015.B7.Bruce>

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Modelling the effects of cracking of lake sediments during drying on acid generation and acid transport to the water column upon rewetting

<https://doi.org/10.36334/MODSIM.2015.B7.Cook>

<http://www.mssanz.org.au/modsim2015/B7/cook.pdf>

Predicting critical thresholds of aquaculture waste loading to coastal sediment

<https://doi.org/10.36334/MODSIM.2015.B7.Paraska>

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A hydrodynamic-ecological model for Lake Rerewhakaaitu

<https://doi.org/10.36334/MODSIM.2015.B7.Parshotam>

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A fading memory model for indoor evacuation – preliminary results

<https://doi.org/10.36334/MODSIM.2015.C1.Zhao>

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On the use of local and global search paradigms for computer-aided diagnosis of breast cancer

<https://doi.org/10.36334/MODSIM.2015.C2.Abroudi>

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A review of computational models of mammalian cell cycle

<https://doi.org/10.36334/MODSIM.2015.C2.Abroudi2>

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System modelling of mammalian cell cycle regulation using multi-level hybrid petri nets

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Computational techniques in mathematical modelling of biological switches

<https://doi.org/10.36334/MODSIM.2015.C2.Chong>

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Estimation of leaf wetness duration using Adaptive Neuro-Fuzzy Inference Systems

<https://doi.org/10.36334/MODSIM.2015.C2.Ghobakhlou>

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Stepwise symbolic regression compared to a probabilistic bivariate test for step-change detection

<https://doi.org/10.36334/MODSIM.2015.C2.Ricketts>

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Pilot study on an online transition course in mathematics

<https://doi.org/10.36334/MODSIM.2015.C3.Berres>

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Reactive documents for modelling and simulation

<https://doi.org/10.36334/MODSIM.2015.C3.Denehy>

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Complex licence requirements for the Bioregional Assessments Programme managed by provenance

<https://doi.org/10.36334/MODSIM.2015.C4.Car>

<http://www.mssanz.org.au/modsim2015/C4/car.pdf>

PROV and real things

<https://doi.org/10.36334/MODSIM.2015.C4.Cox>

<http://www.mssanz.org.au/modsim2015/C4/cox.pdf>

Capturing data provenance with a user-driven feedback approach

<https://doi.org/10.36334/MODSIM.2015.C4.Devaraju>

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Standard provenance reporting and scientific software management in virtual laboratories

<https://doi.org/10.36334/MODSIM.2015.C4.Wise>

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Metadata in Research Data Australia and the Open Provenance Model: A proposed mapping

<https://doi.org/10.36334/MODSIM.2015.C4.Wu>

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A distributed Session Initiation Protocol solution for mobile ad hoc networks using Elliptic Curve Cryptography

<https://doi.org/10.36334/MODSIM.2015.C5.Aburumman>

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Speedup techniques for molecular dynamics simulations of the interaction of acoustic waves and nanomaterials

<https://doi.org/10.36334/MODSIM.2015.C5.Bennett>

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Modeling neural networks and curvelet thresholding for denoising Gaussian noise

<https://doi.org/10.36334/MODSIM.2015.C5.Bhosale>

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Using Workspace to automate workflow processes for modelling and simulation in engineering

<https://doi.org/10.36334/MODSIM.2015.C5.Cleary>

<http://www.mssanz.org.au/modsim2015/C5/cleary.pdf>

An investigation into the modelling challenges for overland flow path mapping and the analysis of practical solutions

<https://doi.org/10.36334/MODSIM.2015.C5.Jafari>

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Simulation of crack generation on a concrete wall

<https://doi.org/10.36334/MODSIM.2015.C5.Mukai>

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Bi-criteria scheduling on parallel machines under fuzzy processing time

<https://doi.org/10.36334/MODSIM.2015.C5.Seema>

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Network analysis of fuzzy bi-serial and parallel servers with a multistage flow shop model

<https://doi.org/10.36334/MODSIM.2015.C5.Sharma>

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An algorithm for the automatic detection of abnormal mitotic figure towards the automated diagnosis of melanoma

<https://doi.org/10.36334/MODSIM.2015.C6.Anvar>

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A new version of Autonomous Ocean Energy Recovery System for oceanic applications

<https://doi.org/10.36334/MODSIM.2015.C6.Jiang>

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Negotiation Protocol Comparison for task allocation in highly dynamic environments

<https://doi.org/10.36334/MODSIM.2015.C6.Noack>

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Uncovering Industrial Control Systems vulnerabilities by examining SCADA Virtual Packages and their communication protocols

<https://doi.org/10.36334/MODSIM.2015.C6.Seo>

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A quadrotor UAV navigational command and control aid: A landing pad detection and localisation system

<https://doi.org/10.36334/MODSIM.2015.C7.Anvar>

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Modelling and simulation of the Autonomous Underwater Vehicle (AUV) Robot

<https://doi.org/10.36334/MODSIM.2015.C7.mahaiyuddin>

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CFD Modelling and real-time testing of the Wave Surface Glider (WSG) Robot

<https://doi.org/10.36334/MODSIM.2015.C7.salari>

<http://www.mssanz.org.au/modsim2015/C7/salari.pdf>

Design and simulation of new versions of tube launched UAV

<https://doi.org/10.36334/MODSIM.2015.C7.zhou>

<http://www.mssanz.org.au/modsim2015/C7/zhou.pdf>

The Keyword Aggregator web service— a tool and methodology for managing digital objects' keywords

<https://doi.org/10.36334/MODSIM.2015.C8.benn>

<http://www.mssanz.org.au/modsim2015/C8/benn.pdf>

PID Service – an advanced persistent identifier management service for the Semantic Web

<https://doi.org/10.36334/MODSIM.2015.C8.golodoniuc>

<http://www.mssanz.org.au/modsim2015/C8/golodoniuc.pdf>

Performance characteristics of Source calibration service

<https://doi.org/10.36334/MODSIM.2015.C8.singh>

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Tools for enabling rapid deployment of water and energy consumption and supply data services

<https://doi.org/10.36334/MODSIM.2015.C8.yu>

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Mathematical techniques to aid the Australian Army in selecting new defence vehicles

<https://doi.org/10.36334/MODSIM.2015.D1.albrecht>

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Is the Contested Urban Networked Littoral Environment a step too far for Agent-Based-Modelling?

<https://doi.org/10.36334/MODSIM.2015.D1.johnson>

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A stochastic scheduling approach for maintaining capability interdependencies and Defence program investment

<https://doi.org/10.36334/MODSIM.2015.D1.nguyen>

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Algorithmic complexity of two defence budget problems

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The use of human-in-the-loop and constructive simulation to support operations research into MH-60R tactics development

<https://doi.org/10.36334/MODSIM.2015.D2.chandran>

<http://www.mssanz.org.au/modsim2015/D2/chandran.pdf>

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