Dr. Rodolfo García-Flores

Research Scientist

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SUMMARY	Over 10 years experience in Operations Research, data mining, simulation, and mul- tiagent systems. Focusing on logistics, minimization of waste, and scheduling of operations for agricultural and mining supply chains.
EDUCATION	Bachelor of Engineering (Hons), Chemical Engineering National Autonomous University of Mexico (UNAM), Mexico City, Mexico
	Doctor of Philosophy, Optimisation The University of Leeds, Leeds, UK
EXPERIENCE	Research Scientist January 2006 - Present
	 CSIRO Computational Informatics, Clayton, VIC. Expert in the area of Operations Research, especially related to supply chain optimisation, scheduling and network optimisation.
	 Optimisation models applied to improve logistics of cattle in the northern states of Australia, in collaboration with the Department of Agriculture of Western Australia. Demonstrated that the construction of an abattoir in WA would produce additional value of over AU \$715M. Optimisation of other agricultural supply chains: adding value to the supply
	chains of small cheese producers in South America, as part of a project sponsored by the Australian Aid Agency.Supply chain optimisation projects for the mining and chemical industries. Produced savings of over \$100M in a rail scheduling project for a major mining company.
	Associate Professor January 2002-December 2005 School of Engineering, Autonomous University of Nuevo León (UANL), Monterrey, Mexico. Lectured in Operations Research and Statistics.
	Data AnalystSeptember to December 2001Vickers Laboratories Ltd, Pudsey, West Yorkshire, UK. Assisted the IT Departmentin inventory optimisation.
RELEVANT PUBLICATIONS	• García-Flores, R, Martins, R, Vieira de Souza Filho, O, González, M, Mattos, C, Rosenthal, A, Juliano, P. A novel facility and equipment selection model for whey utilisation. <i>Computers and Electronics in Agriculture</i> , 117:127-140, 2015.
	• García-Flores, R, Higgins, A, Prestwidge, D., McFallan, S. Optimal location of spelling yards for the northern Australian beef supply chain. <i>Computers and Electronics in Agriculture</i> , 102:134-145, 2014.
	• Singh, G, García-Flores, R, Ernst, A, Welgama, P. Medium-Term Rail Schedul- ing for an Iron Ore Mining Company. <i>Interfaces</i> 44(2):222-240, 2013.