Facultad de Informática
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Computational models for the evolution of cooperation

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Resumen:

How cooperation can be promoted and maintained in the presence of free riders remains an open and challenging question. The nature of this problem can be adequately described by evolutionary games that embody situations characterised by different degrees of conflicting interests between the individuals and their social groups. In this talk, I will discuss about a number of computational models we have built over the years and the interesting findings we have acquired in our attempts to understand the evolution of cooperation.

Sobre Raymond Chiong:

Raymond graduated with a PhD degree from the University of Melbourne. He has taught a variety of undergraduate and postgraduate courses in the areas of computer science and information systems for more than a decade, first at Swinburne University of Technology and now the University of Newcastle, Australia. Besides teaching, he has been actively pursuing research related to evolutionary game theory, optimisation, data analytics, and modelling of complex adaptive systems, with applications in areas such as production scheduling, energy load forecasting, social behaviour modelling and marketing. He is a senior member of the IEEE. He is also a member of the Scientific Advisory Board of Complexica, a leading provider of Artificial Intelligence software for optimising sales and marketing activities, ranging from promotional planning, and product mix optimisation, through to sales force automation, customer relationship management, and multi-channel quoting and order processing.

Raymond is currently a co-Editor-in-Chief of the *Journal of Systems and Information Technology*, an Editor for the journal *Engineering Applications of Artificial Intelligence*, and an Associate Editor for the *IEEE Computational Intelligence Magazine*. He was the Editor-in-Chief of the *Interdisciplinary Journal of Information, Knowledge, and Management* from 2011-2014. He has also served in a Guest Editor role for a number of reputable international journals, such as the *International Journal of Production Economics* and *European Journal of Operational Research*. He was one of the Founding co-Chairs of the IEEE Symposium on Computational Intelligence in Production and Logistics Systems.