

Progress in Artificial Life

Third Australian Conference, ACAL 2007 Gold Coast, Australia, December 4-6, 2007
Proceedings

This book constitutes the refereed proceedings of the Third Australian Conference on Artificial Life, ACAL 2007, held in Gold Coast, Australia, in December 2007. The 34 revised full papers presented were carefully reviewed and selected from 70 submissions. Research in Alife covers the main areas of biological behaviour as a metaphor for computational models, computational models that reproduce/duplicate a biological behaviour, and computational models to solve biological problems.

The field of artificial life (Alife) is a rapidly emerging area that draws on - pertise from computer science, biology, psychology, to name a few. In essence it is the study of systems related to life, its processes and evolution. These systems commonly use computer model simulations. The past decade has seen an increasing stream of scientific articles devoted to the exploration of Alife. The Australian Conference on Artificial Life (ACAL) series is a testament to the above. It is a biannual event that originated in 2001 as the "Inaugural Workshop on Artificial Life" as part of the 14 Joint Conference on Artificial Intelligence. ACAL 2007 received 70 quality submissions of which 34 were accepted for oral presentation in the conference. Each paper was peer reviewed by two or three members of the Program Committee. Apart from Australian researchers, the conference attracted participants from a number of countries across Europe, America, Asia-Pacific and Africa. ACAL 2007 was fortunate to have four distinguished speakers in Alife to address the conference. They were David Abramson (Monash University), Kenneth A. De Jong (George Mason University), K.C. Tan (National University of Singapore) and Rodney Walker (Queensland University of Technology).



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