

FABIO BOSCHETTI - CURRICULUM VITAE

Summary. I am an applied mathematician with a strong multidisciplinary experience, ranging from numerical optimisation to complex system science, modelling of ecological, socio-economic and geophysical processes, information theory and statistical analysis, among others. My work is currently applied to the management of natural resources and their interaction with human activities.

Current Research. I try to improve our understanding of how we can best model ecosystems and their interaction with human activities and how to communicate the results. We know that ecological and human systems are 'complex'. From the one hand, we need to address this complexity, accounting for multiple phenomena interacting at different scales, uncertainty, many degrees of freedom and feedback cycles messing up causal relations. From the other hand, we need to simplify our analysis to make it manageable. Finding some sort of workable compromise is what most of my research is about.

Publications. I have published 100+ refereed publications, including 70+ fully-refereed journal papers and book chapters, in disciplines as diverse as numerical optimisation, philosophy of science, complex system science, environmental science and theoretical biology. A full list of papers together with the electronic copies of most of my publications is available at <http://www.per.marine.csiro.au/staff/Fabio.Boschetti/>

Born: 21 July 1964

Nationality: Italian, Australian

Languages: Italian, English

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Professional Experience

2004 – present: Research Scientist; CSIRO, Marine and Atmospheric Science, Australia

1996 – 2004: Research Scientist; CSIRO, Exploration and Mining, Australia

1990 – 1993: Project Manager, Research and Development; ITA 12, Italy (Consultancy group in environmental studies).

1989 – 1990: Consultant, Research and Development; CAP Gemini Sysgen, Italy (Software engineering).

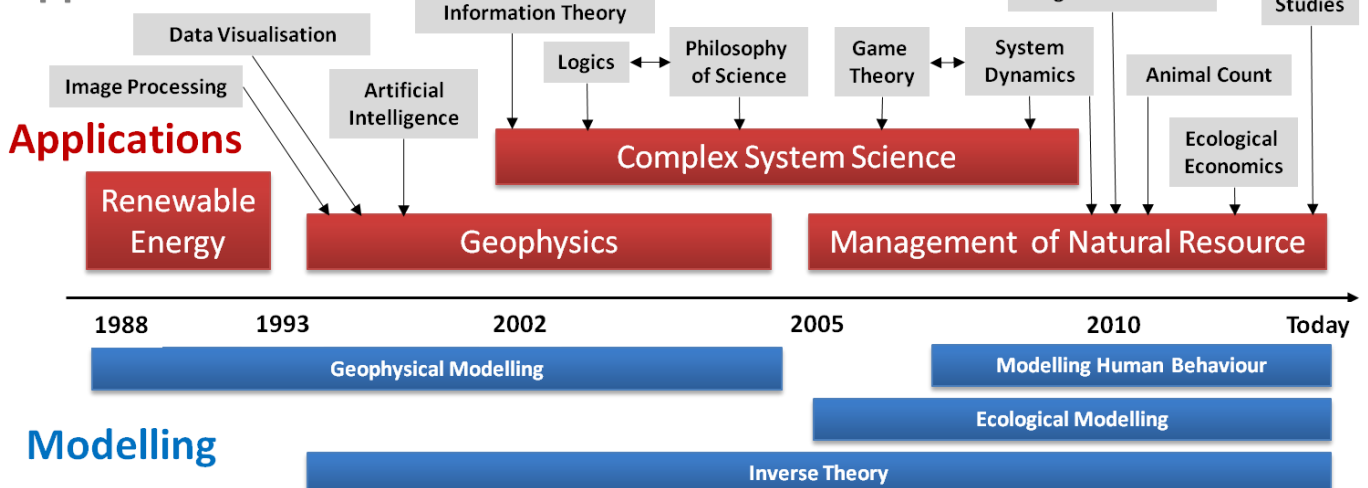
Education

PhD in Mathematical Geophysics, University of Western Australia. 1995.

'Application of Genetic Algorithms to the Inversion of Geophysical Data'

Honors in Earth Science, University of Genoa, Italy, 1988. Grade: 110/110 with 'laude'.

Approaches



Modelling