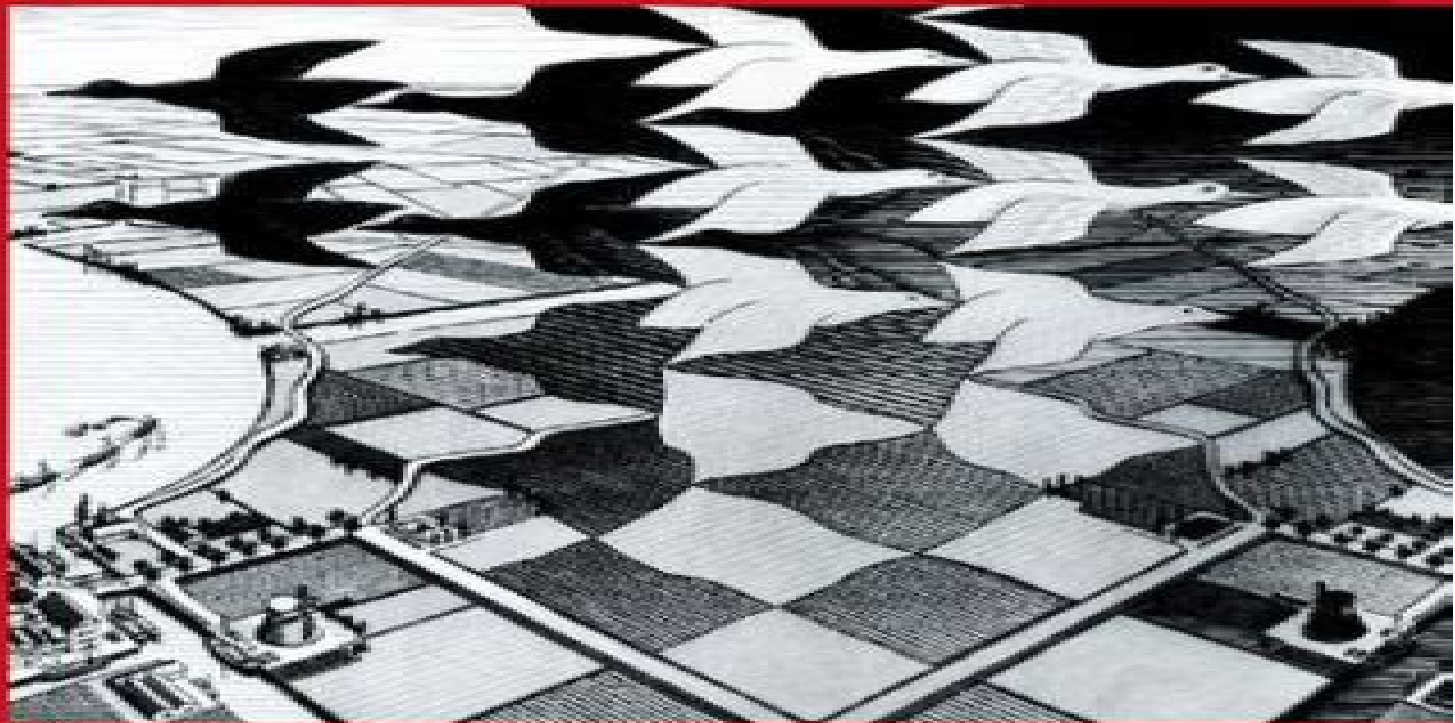




MODELLING THE FLYING BIRD

C.J. Pennycuick



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Living machines Tony J. Prescott, Nathan Lepora, Paul F. M. J. Verschure, 2018-04-13 Contemporary research in science and engineering is seeking to harness the versatility and sustainability of living organisms. By exploiting natural principles, researchers hope to create new kinds of technology that are self-repairing, adaptable, and robust, and to invent a new class of machines that are perceptive, social, emotional, perhaps even conscious. This is the realm of the living machine. Living machines can be divided into two types: biomimetic systems that harness the principles discovered in nature and embody them in new artifacts, and biohybrid systems in which biological entities are coupled with synthetic ones. *Living Machines: A handbook of research in biomimetic and biohybrid systems* surveys this flourishing area of research, capturing the current state of play and pointing to the opportunities ahead. Promising areas in biomimetics include self-organization, biologically inspired active materials, self-assembly, and self-repair; learning, memory, control architectures, and self-regulation; locomotion in air, on land, or in water; perception, cognition, control, and communication. Drawing on these advances, the potential of biomimetics is revealed in devices that can harvest energy, grow, or reproduce, and in animal-like robots that range from synthetic slime molds to artificial fish to humanoids. Biohybrid systems is a relatively new field with exciting and largely unknown potential, but one that is likely to shape the future of humanity. This book surveys progress towards new kinds of biohybrid, such as robots that merge electronic neurons with biological tissue, micro-scale machines made from living cells, prosthetic limbs with a sense of touch, and brain-machine interfaces that allow robotic devices to be controlled by human thought. The handbook concludes by exploring some of the impacts that living machine technologies could have on both society and the individual, exploring questions about how we will see and understand ourselves in a world in which the line between the natural and the artificial is increasingly blurred. With contributions from leading researchers from science, engineering, and the humanities, this handbook will be of broad interest to undergraduate and postgraduate students. Researchers in the areas of computational modeling and engineering, including artificial intelligence, machine learning, artificial life, biorobotics, neurorobotics, and human-machine interfaces, will find *Living Machines* an invaluable resource.

Modelling the Flying Bird C.J. Pennycuick, 2008-08-23 This book outlines the principles of flight of birds, in particular. It describes a way of simplifying the mechanics of flight into a practical computer program which will predict in some detail what any bird, real or hypothetical, can and cannot do. The Flight program, presented on the companion website, generates performance curves for flapping and gliding flight and simulations of long-distance migration and accounts successfully for the consumption of muscles and other tissues during migratory flights. The program is effectively a working model of a flying bird, or bat, or pterosaur, and is the skeleton around which the book is built. The book provides a wider background and then explains how Flight works and shows how to set up and test hypotheses generated by the program. The book and the program are based on adapting the conventional and well-tested thinking of aeronautical engineers to the biological problems of bird

flight Their primary aim is to convince biologists that this is the appropriate way to handle problems that involve flight to make the engineering background accessible to biologists and to provide a tool kit in the shape of the Flight program which they can use to solve practical problems involving bird flight and migration In addition the book will be readily accessible to engineers who want to know how birds work and should be of interest to the ever growing community working on flapping micro air vehicles MAVs The program can be used to predict the flight performance and capabilities of reconstructed fossil birds and pterosaurs flying in ancient atmospheres that differ from present conditions and also of course to predict and account for the results of experiments and observations on living birds and bats An up to date work by the world s leading expert on bird flight Examines the biology and biomechanics of bird flight with added reference to the flight of bats and pterosaurs Uses proven aeronautical principles to help solve biological issues in understanding and predicting the flight capabilities of birds and other vertebrates Provides insights into the evolution of flight and the likely capabilities of extinct birds and reptiles Gives a detailed explanation of the science behind and use of the author s predictive bird flight simulation program Flight which is available on a companion website Presents often difficult concepts in easily understood language

Cooperation and Coordination in the Family James L. Savage, Camilla A. Hinde, Rufus A. Johnstone, 2021-04-23

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