

ENGINEERING SCIENCES

Microtechnology

BIO-INSPIRED FLYING ROBOTS

EXPERIMENTAL SYNTHESIS OF AUTONOMOUS INDOOR FLYERS

Jean-Christophe Zufferey



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Toshio Fukuda



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Bio-inspired Flying Robots Jean-Christophe Zufferey, 2008-04-24 This book demonstrates how bio inspiration can lead to fully autonomous flying robots without relying on external aids Most existing aerial robots fly in open skies far from obstacles and rely on external beacons mainly GPS to localise and navigate However these robots are not able to fly at low altitude or in confined environments and yet this poses absolutely no difficulty to insects Indeed flying insects display efficient flight control capabilities in complex environments despite their limited weight and relatively tiny brain size From sensor suite to control strategies the literature on flying insects is reviewed from an engineering perspective in order to extract useful principles that are then applied to the synthesis of artificial indoor flyers Artificial evolution is also utilised to search for alternative control systems and behaviors that match the constraints of small flying robots Specifically the basic sensory modalities of insects vision gyroscopes and airflow sense are applied to develop navigation controllers for indoor flying robots These robots are capable of mapping sensor information onto actuator commands in real time to maintain altitude stabilize the course and avoid obstacles The most prominent result of this novel approach is a 10 gram microflyer capable of fully autonomous operation in an office sized room using fly inspired vision inertial and airspeed sensors This book is intended for all those interested in autonomous robotics in academia and industry

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Flying Insects and Robots Dario Floreano, Jean-Christophe Zufferey, Mandyam V. Srinivasan, Charlie Ellington, 2009-10-23 Flying insects are intelligent micromachines capable of exquisite maneuvers in unpredictable environments Understanding these systems advances our knowledge of flight control sensor suites and unsteady aerodynamics which is of crucial interest to engineers developing intelligent flying robots or micro air vehicles MAVs The insights we gain when synthesizing bioinspired systems can in turn benefit the fields of neurophysiology ethology and zoology by providing real life tests of the proposed models This book was written by biologists and engineers leading the research in this crossdisciplinary field It examines all aspects of the mechanics technology and intelligence of insects and insectoids After introductory level overviews of flight control in insects dedicated chapters focus on the development of autonomous flying systems using biological principles to sense their surroundings and autonomously navigate A significant part of the book is dedicated to the mechanics and control of flapping wings both in insects and artificial systems Finally hybrid locomotion energy harvesting and manufacturing of small flying robots are covered A particular feature of the book is the depth on realization topics such as control engineering electronics mechanics optics

robotics and manufacturing This book will be of interest to academic and industrial researchers engaged with theory and engineering in the domains of aerial robotics artificial intelligence and entomology **The DelFly** G.C.H.E. de Croon,M. Perçin,B.D.W. Remes,R. Ruijsink,C. De Wagter,2019-03-27 This book introduces the topics most relevant to autonomously flying flapping wing robots flapping wing design aerodynamics and artificial intelligence Readers can explore these topics in the context of the DelFly a flapping wing robot designed at Delft University in The Netherlands How are tiny fruit flies able to lift their weight avoid obstacles and predators and find food or shelter The first step in emulating this is the creation of a micro flapping wing robot that flies by itself The challenges are considerable the design and aerodynamics of flapping wings are still active areas of scientific research whilst artificial intelligence is subject to extreme limitations deriving from the few sensors and minimal processing onboard This book conveys the essential insights that lie behind success such as the DelFly Micro and the DelFly Explorer The DelFly Micro with its 3.07 grams and 10 cm wing span is still the smallest flapping wing MAV in the world carrying a camera whilst the DelFly Explorer is the world's first flapping wing MAV that is able to fly completely autonomously in unknown environments The DelFly project started in 2005 and ever since has served as inspiration not only to many scientific flapping wing studies but also the design of flapping wing toys The combination of introductions to relevant fields practical insights and scientific experiments from the DelFly project make this book a must read for all flapping wing enthusiasts be they students researchers or engineers *Bio-Inspired Robotics* Toshio Fukuda,Fei Chen,Qing Shi,2018-11-07 This book is a printed edition of the Special Issue Bio Inspired Robotics that was published in Applied Sciences **Autonomous Robot-Aided Optical Manipulation for Biological Cells** Mingyang Xie,2021-05-12 Autonomous Robot Aided Optical Manipulation for Biological Cells gives a systematically and almost self contained description of the many facets of modeling sensing and control techniques or experimentally exploring emerging trends in optical manipulation of biological cell in micro nanorobotics systems To achieve biomedical applications reliability design modeling and precision control are vitally important for the development of engineering systems With the advances in modeling sensing and control techniques it is opportunistic to exploit them for the benefit of reliability design actuation and precision control of micro nanomanipulation systems to expanding the applications of robot at the micro and nano scales especially in biomedical engineering This book presents new techniques in reliability modeling and advanced control of robot aided optical manipulation of biological cells systems The book will be beneficial to the researchers within robotics mechatronics biomedical engineering and automatic control society including both academic and industrial parts Provides a series of latest results in including but not limited to design sensing actuation modeling and control of micro nano manipulation system using optical tweezers Gives recent advances of theory technological aspects and applications of advanced sensing actuation modeling and control methodologies in biomedical engineering applications Offers simulation and experimental results in each chapter in order to reflect the biomedical engineering practice yet demonstrate the main

focus of the developed design analysis and synthesis approaches *Bio-inspired Vision-based Flying Robots* Jean-Christophe Zufferey, 2005 **Advances in Bio-Inspired Robots** Taewon Seo, Dongwon Yun, Gwang-Pil Jung, 2021-11-26 This book covers three major topics specifically Biomimetic Robot Design Mechanical System Design from Bio Inspiration and Bio Inspired Analysis on A Mechanical System The Biomimetic Robot Design part introduces research on flexible jumping robots snake robots and small flying robots while the Mechanical System Design from Bio Inspiration part introduces Bioinspired Divide and Conquer Design Methodology Modular Cable Driven Human Like Robotic Arm and Wall Climbing Robot Finally in the Bio Inspired Analysis on A Mechanical System part research contents on the control strategy of Surgical Assistant Robot modeling of Underwater Thruster and optimization of Humanoid Robot are introduced *Bio-inspired Robotics* Toshio Fukuda, 2018

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