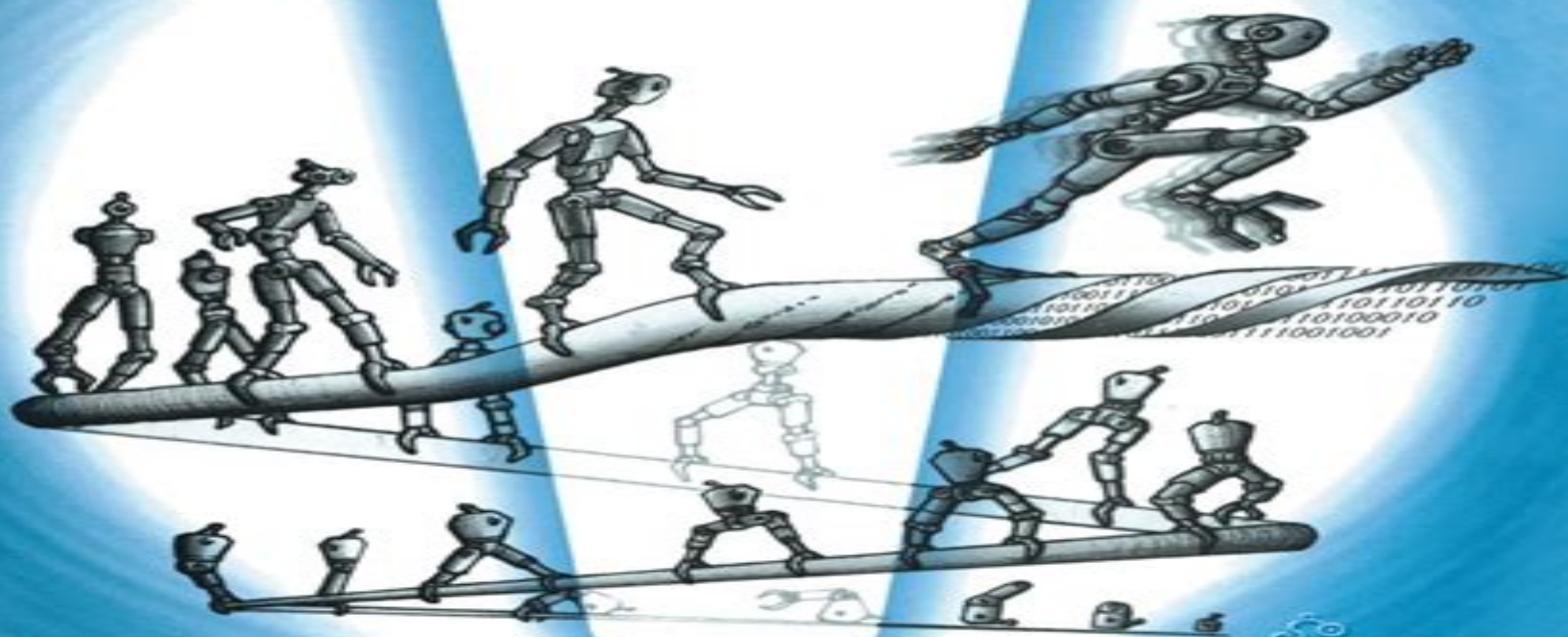


DARWIN2K

AN EVOLUTIONARY APPROACH TO AUTOMATED DESIGN FOR ROBOTICS



CHRIS LEGER

Darwin2k An Evolutionary Approach To Automated Design For Robotics

**Raj Madhavan,Edward Tunstel,Elena
Messina**



Darwin2k An Evolutionary Approach To Automated Design For Robotics:

Darwin2K Chris Leger, 2012-12-06 Darwin2K An Evolutionary Approach to Automated Design for Robotics is an essential reference tool for researchers professionals and students involved in robot design or in evolutionary synthesis design and optimization It is also necessary for users of Darwin2K Researchers and hobbyists interested in genetic algorithms and artificial life techniques will find the book interesting The primary purpose of this book is to describe a methodology for using computers to automatically design robots to meet the specific needs of an application Details of many novel aspects of the methodology are presented including an evolutionary algorithm for synthesizing and optimizing multiple objective functions an algorithm for dynamic simulation of arbitrary robots an extensible software architecture and a new representation for robots that is appropriate for robot design The methodology as a whole is significant in terms of its impact on robot design practices and as a case study in building evolutionary design systems Individual parts of the systems are also relevant to other areas For example the evolutionary algorithm can be used for design and optimization problems other than robotics and the dynamic simulation algorithm can be used for analysis and simulation of existing robots or as a part of a manual design tool The book also gives an overview of previous work in automated design of robots and of evolutionary design in other engineering disciplines

Modeling from Reality Katsushi Ikeuchi, Yoichi Sato, 2012-12-06 This book summarizes the results of our modeling from reality MFR project which took place over the last decade or so The goal of this project is to develop techniques for modeling real objects and or environments into geometric and photometric models through computer vision techniques By developing such techniques time consuming modeling process currently undertaken by human programmers can be semi automatically performed and as a result we can drastically shorten the developing time of such virtual reality systems reduce their developing cost and widen their application areas Originally we began to develop geometric modeling techniques that acquire shape information of objects environments for object recognition Soon this effort evolved into an independent modeling project virtual reality modeling with the inclusion of photometric modeling aspects that acquire appearance information such as color texture and smoothness Over the course of this development it became apparent that environmental modeling techniques were necessary when applying our techniques to mixed realities that seamlessly combine generated virtual models with other real virtual images The material in his book covers these aspects of development

Mathematical Methods in Engineering Nuno Miguel Fonseca Ferreira, José António Tenreiro Machado, 2014-08-18 This book presents a careful selection of the contributions presented at the Mathematical Methods in Engineering MME10 International Symposium held at the Polytechnic Institute of Coimbra Engineering Institute of Coimbra IPC ISEC Portugal October 21 24 2010 The volume discusses recent developments about theoretical and applied mathematics toward the solution of engineering problems thus covering a wide range of topics such as Automatic Control Autonomous Systems Computer Science Dynamical Systems and Control Electronics Finance and Economics Fluid

Mechanics and Heat Transfer Fractional Mathematics Fractional Transforms and Their Applications Fuzzy Sets and Systems
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 Walking Robots and the Support Technologies for Mobile Machines* Phillippe Bidaud, Faiz Ben Amar, 2002-11-08 Robotic
 technology advances for a wide variety of applications Climbing and Walking Robots and the Support Technologies for
 Mobile Machines explores the increasing interest in real world robotics and the surge in research and invention it has
 inspired Featuring the latest advances from leading robotics labs around the globe this book presents solutions for perennial
 challenges in robotics and suggests directions for future research With applications ranging from personal services and
 entertainment to emergency rescue and extreme environment intervention the groundbreaking work presented here provides
 a glimpse of the future **Smart Devices and Machines for Advanced Manufacturing** Lihui Wang, Fengfeng
 Xi, 2008-02-28 Manufacturing has been one of the key areas that support and influence a nation's economy since the 18th
 century Being the primary driving force in economic growth manufacturing constantly serves as the foundation of and
 contributes to other industries In the past centuries manufacturing has contributed to the modern civilisation and created
 momentum that is continuously driving today's economy Despite various revolutionary changes and innovations in the 20th
 century that contributed to manufacturing advancements we are facing new challenges when striving to achieve greater
 success in winning global competitions Machines and robots as the constituent components in manufacturing have
 contributed significantly to the success of advanced manufacturing After evolving from the initial mechanisation era where
 mechanical devices were created to replace human labours to the later automation era where control devices were invented
 to replace human operations the history of machines has now entered into the modern era of autonomisation where
 intelligent devices are being developed in an attempt to eventually replace human decision making While machines are
 becoming more and more intelligent through integration with new technologies including sensors controls computers and
 even the Internet machine structures and theories have also advanced most noticeably in the area of parallel kinematic
 machines and micro machines Electroactive Polymer (EAP) Actuators as Artificial Muscles Yoseph Bar-Cohen, 2004
 Covers the field of EAP with attention to all aspects and full infrastructure including the available materials analytical models
 processing techniques and characterization methods This second edition covers advances in EAP in electric EAP
 electroactive polymer gels ionomeric polymer metal composites and carbon nanotube actuators **Perceptual Metrics for
 Image Database Navigation** Yossi Rubner, Carlo Tomasi, 2013-03-14 The increasing amount of information available in
 today's world raises the need to retrieve relevant data efficiently Unlike text based retrieval where keywords are successfully
 used to index into documents content based image retrieval poses up front the fundamental questions how to extract useful
 image features and how to use them for intuitive retrieval We present a novel approach to the problem of navigating through

a collection of images for the purpose of image retrieval which leads to a new paradigm for image database search We summarize the appearance of images by distributions of color or texture features and we define a metric between any two such distributions This metric which we call the Earth Mover s Distance EMD represents the least amount of work that is needed to rearrange the mass is one distribution in order to obtain the other We show that the EMD matches perceptual dissimilarity better than other dissimilarity measures and argue that it has many desirable properties for image retrieval Using this metric we employ Multi Dimensional Scaling techniques to embed a group of images as points in a two or three dimensional Euclidean space so that their distances reflect image dissimilarities as well as possible Such geometric embeddings exhibit the structure in the image set at hand allowing the user to understand better the result of a database query and to refine the query in a perceptually intuitive way

Performance Evaluation and Benchmarking of Intelligent Systems Raj Madhavan,Edward Tunstel,Elena Messina,2010-04-29 To design and develop capable dependable and affordable intelligent systems their performance must be measurable Scientific methodologies for standardization and benchmarking are crucial for quantitatively evaluating the performance of emerging robotic and intelligent systems technologies There is currently no accepted standard for quantitatively measuring the performance of these systems against user defined requirements and furthermore there is no consensus on what objective evaluation procedures need to be followed to understand the performance of these systems The lack of reproducible and repeatable test methods has precluded researchers working towards a common goal from exchanging and communicating results inter comparing system performance and leveraging previous work that could otherwise avoid duplication and expedite technology transfer Currently this lack of cohesion in the community hinders progress in many domains such as manufacturing service healthcare and security By providing the research community with access to standardized tools reference data sets and open source libraries of solutions researchers and consumers will be able to evaluate the cost and benefits associated with intelligent systems and associated technologies In this vein the edited book volume addresses performance evaluation and metrics for intelligent systems in general while emphasizing the need and solutions for standardized methods To the knowledge of the editors there is not a single book on the market that is solely dedicated to the subject of performance evaluation and benchmarking of intelligent systems

Neural Preprocessing and Control of Reactive Walking Machines Poramate Manoonpong,2007-05-10 This book presents biologically inspired walking machines interacting with their physical environment and shows how the morphology and behavior control of machines can benefit from biological studies The purpose is to develop a modular structure of neural control generating reactive behaviors of the physical walking machines to analyze the neural mechanisms underlying them and to demonstrate the sensor fusion technique leading to smooth switching between appropriate behaviors like obstacle avoidance and sound tropism

Sensor Fusion and Decentralized Control in Robotic Systems ,2000 **Journal of Mechanical Design** ,2007-07 *American Book Publishing Record* R.R.

Bowker Company,1978 **The British National Bibliography** Arthur James Wells,2000 *Book Review Index* ,2003 Vols 8 10 of the 1965 1984 master cumulation constitute a title index **Forthcoming Books** Rose Arny,2000 **Brinkman's catalogus van boeken en tijdschriften** ,2001 With 1901 1910 1956 1960 Repertorium is bound Brinkman's Titel catalogus van de gedurende 1901 1910 1956 1960 Title varies slightly *Evolutionary Machine Design* Nadia Nedjah,Luiza de Macedo Mourelle,2005 In recent years genetic programming has attracted many researcher's attention and so became a consolidated methodology to automatically create new competitive computer programs Concise and efficient synthesis of a variety of systems has been generated by evolutionary computations Evolvable hardware is a growing discipline It allows one to evolve creative and novel hardware architectures given the expected input output behaviour There are two kinds of evolvable hardware extrinsic and intrinsic The former relies on a simulated evolutionary process to evaluate the characteristics of the evolved designs while the latter uses hardware itself to do so Usually reconfigurable hardware such FPGA and FPAA are exploited One of the main problems that still faces researchers in the field of evolutionary machine design is the scalability This book is devoted to reporting innovative and significant progress in automatic machine design Theoretical as well as practical chapters are contemplated The scalability problem in evolutionary machine designs is addressed The content of this book is divided into two main parts evolvable hardware and genetic programming and evolutionary designs In the following we give a brief description of the main contribution of each of the included chapters

Progressive Design Through Staged Evolution Ricardo A. Tellez,Cecilio Angulo,2008 The progressive design method allows for the evolution of complex controllers in complex robots However the process is not performed in a complete automatic way as the evolutionary robotics approach aims to have Instead a gradual shaping of the controller is performed where there is a human trainer who directs the learning process by presenting increasingly complex learning tasks and deciding the best combination of modules over time until the final complex goal is reached This process of human shaping seems unavoidable to us if a complex robot body sensors actuators environment and task are imposed before hand This point has also been suggested by other researchers Urzelai et al 1998 Muthuraman et al 2003 But different to other approaches progressive design by implementing modularity at the level of devices and also at the level of learning allows for a better flexibility in terms of shaping of complex robots The main reason is that due to the modularization at the level of device the designer can select at any evolutionary stage which small group of sensors and actuators will participate under which task and only evolve those modules This would not be possible on a complex robot if modularization at the level of behavior is used Progressive design can be seen as an implementation of the incremental evolution technique but with a better control of who is learning what at each stage of the evolutionary process If incremental evolution were used on a controller with several inputs and outputs which controls every aspect of the robot it would be possible to produce genetic linkage by which learning some behaviors on early stages would prevent learning other behaviors in following steps because the controller is

so biased that it cannot recover from This effect may be specially important in complex robots where several motors have to be coordinated The learning of one coordination task may prevent the learning of another different one Instead the use of progressive design allows for the evolution of only those parts required for the task that they are required This allows a more flexible design In the case of the Khepera robot when the results obtained in the evolution of the eleven modules in one single stage process are compared with the results obtained by three stages

Evolutionary Robotics. From Intelligent Robotics to Artificial Life Takashi Gomi, 2001-10-05 This book constitutes the refereed proceedings of the 8th International Symposium on Evolutionary Robotics ER 2001 held in Tokyo Japan in October 2001 The seven revised full papers by the invited speakers Rodney A Brooks Dario Floreano Robert J Full Inman Harvey Owen Holland Francesco Mondada and Jordan B Pollack were carefully selected and revised for presentation in the book Among the topics addressed are imitation of life and machine consciousness autonomous vision based robots evolved robots living machines artificial evolution bioinspired artificial life locomotion and mobile robotic systems engineering

Competitive Relative Performance and Fitness Selection for Evolutionary Robotics, 2003 Evolutionary Robotics ER is a field of research that applies evolutionary computing methods to the automated design and synthesis of behavioral robotics controllers In the general case reinforcement learning RL using high level task performance feedback is applied to the evolution of controllers for autonomous mobile robots This form of RL learning is required for the evolution of complex and non trivial behaviors because a direct error feedback signal is generally not available Only the high level behavior or task is known not the complex sensor motor signal mappings that will generate that behavior Most work in the field has used evolutionary neural computing methods Over the course of the preceding decade ER research has been largely focused on proof of concept experiments Such work has demonstrated both the evolvability of neural network controllers and the feasibility of implementation of those evolved controllers on real robots However these proof of concept results leave important questions unanswered In particular no ER work to date has shown that it is possible to evolve complex controllers in the general case The research described in this work addresses issues relevant to the extension of ER to generalized automated behavioral robotics controller synthesis In particular we focus on fitness selection function specification The case is made that current methods of fitness selection represent the primary factor limiting the further development of ER We formulate a fitness function that accommodates the Bootstrap Problem during early evolution but that limits human bias in selection later in evolution In addition we apply ER methods to evolve networks that have far more inputs and are of a much greater complexity than those used in other ER work We focus on the evolution of robot controllers for the competitive team game Capture the Flag Games are played in a variety of maze environments The robots use processed video data requir

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