



Recent Advances In Robot Learning

Radek Matoušek, Jakub Kůdela



Recent Advances In Robot Learning:

Recent Advances in Robot Learning Judy A. Franklin, Tom M. Mitchell, Sebastian Thrun, 1996-06-30 Recent Advances in Robot Learning contains seven papers on robot learning written by leading researchers in the field As the selection of papers illustrates the field of robot learning is both active and diverse A variety of machine learning methods ranging from inductive logic programming to reinforcement learning is being applied to many subproblems in robot perception and control often with objectives as diverse as parameter calibration and concept formulation While no unified robot learning framework has yet emerged to cover the variety of problems and approaches described in these papers and other publications a clear set of shared issues underlies many robot learning problems Machine learning when applied to robotics is situated it is embedded into a real world system that tightly integrates perception decision making and execution Since robot learning involves decision making there is an inherent active learning issue Robotic domains are usually complex yet the expense of using actual robotic hardware often prohibits the collection of large amounts of training data Most robotic systems are real time systems Decisions must be made within critical or practical time constraints These characteristics present challenges and constraints to the learning system Since these characteristics are shared by other important real world application domains robotics is a highly attractive area for research on machine learning On the other hand machine learning is also highly attractive to robotics There is a great variety of open problems in robotics that defy a static hand coded solution Recent Advances in Robot Learning is an edited volume of peer reviewed original research comprising seven invited contributions by leading researchers This research work has also been published as a special issue of Machine Learning Volume 23 Numbers 2 and 3

Recent Advances in Robot Learning Judy A. Franklin, Tom M. Mitchell, Sebastian Thrun, 2012-12-06 Recent Advances in Robot Learning contains seven papers on robot learning written by leading researchers in the field As the selection of papers illustrates the field of robot learning is both active and diverse A variety of machine learning methods ranging from inductive logic programming to reinforcement learning is being applied to many subproblems in robot perception and control often with objectives as diverse as parameter calibration and concept formulation While no unified robot learning framework has yet emerged to cover the variety of problems and approaches described in these papers and other publications a clear set of shared issues underlies many robot learning problems Machine learning when applied to robotics is situated it is embedded into a real world system that tightly integrates perception decision making and execution Since robot learning involves decision making there is an inherent active learning issue Robotic domains are usually complex yet the expense of using actual robotic hardware often prohibits the collection of large amounts of training data Most robotic systems are real time systems Decisions must be made within critical or practical time constraints These characteristics present challenges and constraints to the learning system Since these characteristics are shared by other important real world application domains robotics is a highly attractive area for research on machine

learning On the other hand machine learning is also highly attractive to robotics There is a great variety of open problems in robotics that defy a static hand coded solution Recent Advances in Robot Learning is an edited volume of peer reviewed original research comprising seven invited contributions by leading researchers This research work has also been published as a special issue of Machine Learning Volume 23 Numbers 2 and 3 **Recent Advances in Robot Learning** Judy A. Franklin, Tom M. Mitchell, Sebastian Thrun, 2014-01-15 *Deep Learning for Robot Perception and Cognition* Alexandros Iosifidis, Anastasios Tefas, 2022-02-04 Deep Learning for Robot Perception and Cognition introduces a broad range of topics and methods in deep learning for robot perception and cognition together with end to end methodologies The book provides the conceptual and mathematical background needed for approaching a large number of robot perception and cognition tasks from an end to end learning point of view The book is suitable for students university and industry researchers and practitioners in Robotic Vision Intelligent Control Mechatronics Deep Learning Robotic Perception and Cognition tasks Presents deep learning principles and methodologies Explains the principles of applying end to end learning in robotics applications Presents how to design and train deep learning models Shows how to apply deep learning in robot vision tasks such as object recognition image classification video analysis and more Uses robotic simulation environments for training deep learning models Applies deep learning methods for different tasks ranging from planning and navigation to biosignal analysis Recent Advances in Robot Learning from Demonstration Harish Ravichandar, 2020 In the context of robotics and automation learning from demonstration LfD is the paradigm in which robots acquire new skills by learning to imitate an expert The choice of LfD over other robot learning methods is compelling when ideal behavior can be neither easily scripted as is done in traditional robot programming nor easily defined as an optimization problem but can be demonstrated While there have been multiple surveys of this field in the past there is a need for a new one given the considerable growth in the number of publications in recent years This review aims to provide an overview of the collection of machine learning methods used to enable a robot to learn from and imitate a teacher We focus on recent advancements in the field and present an updated taxonomy and characterization of existing methods We also discuss mature and emerging application areas for LfD and highlight the significant challenges that remain to be overcome both in theory and in practice *Robot Learning* J. H. Connell, Sridhar Mahadevan, 2012-12-06 Building a robot that learns to perform a task has been acknowledged as one of the major challenges facing artificial intelligence Self improving robots would relieve humans from much of the drudgery of programming and would potentially allow operation in environments that were changeable or only partially known Progress towards this goal would also make fundamental contributions to artificial intelligence by furthering our understanding of how to successfully integrate disparate abilities such as perception planning learning and action Although its roots can be traced back to the late fifties the area of robot learning has lately seen a resurgence of interest The flurry of interest in robot learning has partly been fueled by exciting new work in the areas of reinforcement learning behavior based architectures

genetic algorithms neural networks and the study of artificial life Robot Learning gives an overview of some of the current research projects in robot learning being carried out at leading universities and research laboratories in the United States The main research directions in robot learning covered in this book include reinforcement learning behavior based architectures neural networks map learning action models navigation and guided exploration

Recent Advances in Robotic Systems Guanghui Wang,2016-09-28 This book brings together some recent advances and development in robotics In 12 chapters written by experts and researchers in respective fields the book presents some up to date research ideas and findings in a wide range of robotics including the design modeling control learning interaction and navigation of robots From an application perspective the book covers UAVs USVs mobile robots humanoid robots graspers and underwater robots The unique text offers practical guidance to graduate students and researchers in research and applications in the field of robotics

Advances in Deep Learning, Artificial Intelligence and Robotics Luigi Troiano,Alfredo Vaccaro,Roberto Tagliaferri,Nishtha Kesswani,Irene Díaz Rodriguez,Imene Brigui,Domenico Parente,2022-01-03 This book of Advances in Deep Learning Artificial Intelligence and Robotics proceedings of ICDLAIR 2020 is intended to be used as a reference by students and researchers who collect scientific and technical contributions with respect to models tools technologies and applications in the field of modern artificial intelligence and robotics Deep Learning AI and robotics represent key ingredients for the 4th Industrial Revolution Their extensive application is dramatically changing products and services with a large impact on labour economy and society at all The research and reports of new technologies and applications in DL AI and robotics like biometric recognition systems medical diagnosis industries telecommunications AI petri nets model based diagnosis gaming stock trading intelligent aerospace systems robot control and web intelligence aim to bridge the gap between these non coherent disciplines of knowledge and fosters unified development in next generation computational models for machine intelligence

Recent Advances in Robotics and Automation Gourab Sen Gupta,Donald Bailey,Serge Demidenko,Dale Carnegie,2013-05-23 There isn t a facet of human life that has not been touched and influenced by robots and automation What makes robots and machines versatile is their computational intelligence While modern intelligent sensors and powerful hardware capabilities have given a huge fillip to the growth of intelligent machines the progress in the development of algorithms for smart interaction collaboration and pro activeness will result in the next quantum jump This book deals with the recent advancements in design methodologies algorithms and implementation techniques to incorporate intelligence in robots and automation systems Several articles deal with navigation localization and mapping of mobile robots a problem that engineers and researchers are grappling with all the time Fuzzy logic neural networks and neuro fuzzy based techniques for real world applications have been detailed in a few articles This edited volume is targeted to present the latest state of the art computational intelligence techniques in Robotics and Automation It is a compilation of the extended versions of the very best papers selected from the many that were presented at the 5th

International Conference on Automation Robotics and Applications ICARA 2011 which was held in Wellington New Zealand from 6-8 December 2011. Scientists and engineers who work with robots and automation systems will find this book very useful and stimulating. Learning for Adaptive and Reactive Robot Control Aude Billard, Sina Mirrazavi, Nadia Figueroa, 2022-02-08. Methods by which robots can learn control laws that enable real time reactivity using dynamical systems with applications and exercises. This book presents a wealth of machine learning techniques to make the control of robots more flexible and safe when interacting with humans. It introduces a set of control laws that enable reactivity using dynamical systems, a widely used method for solving motion planning problems in robotics. These control approaches can replan in milliseconds to adapt to new environmental constraints and offer safe and compliant control of forces in contact. The techniques offer theoretical advantages including convergence to a goal, non-penetration of obstacles, and passivity. The coverage of learning begins with low-level control parameters and progresses to higher-level competencies composed of combinations of skills. Learning for Adaptive and Reactive Robot Control is designed for graduate-level courses in robotics with chapters that proceed from fundamentals to more advanced content. Techniques covered include learning from demonstration, optimization, and reinforcement learning, and using dynamical systems in learning control laws, trajectory planning, and methods for compliant and force control. Features for teaching in each chapter include applications which range from arm manipulators to whole-body control of humanoid robots, pencil and paper, and programming exercises, lecture videos, slides, and MATLAB code examples available on the author's website, an eTextbook platform website offering protected material, EPS2 for instructors including solutions. Robots in K-12 Education: A New Technology for Learning Barker, Bradley S., Nugent, Gwen, Grandgenett, Neal, Adamchuk, Viacheslav I., 2012-02-29. This book explores the theory and practice of educational robotics in the K-12 formal and informal educational settings, providing empirical research supporting the use of robotics for STEM learning. Provided by publisher. *Robot-Proof* Joseph E. Aoun, 2017-08-25. How to educate the next generation of college students to invent, to create, and to discover, filling needs that even the most sophisticated robot cannot. Driverless cars are hitting the road, powered by artificial intelligence. Robots can climb stairs, open doors, win Jeopardy, analyze stocks, work in factories, find parking spaces, advise oncologists. In the past, automation was considered a threat to low-skilled labor. Now many high-skilled functions, including interpreting medical images, doing legal research, and analyzing data, are within the skill sets of machines. How can higher education prepare students for their professional lives when professions themselves are disappearing? In *Robot-Proof*, Northeastern University president Joseph Aoun proposes a way to educate the next generation of college students to invent, to create, and to discover, to fill needs in society that even the most sophisticated artificial intelligence agent cannot. A robot-proof education, Aoun argues, is not concerned solely with topping up students' minds with high-octane facts. Rather, it calibrates them with a creative mindset and the mental elasticity to invent, discover, or create something valuable to society: a scientific proof, a hip-hop recording, a web comic, a cure for cancer. Aoun lays out the

framework for a new discipline humanics which builds on our innate strengths and prepares students to compete in a labor market in which smart machines work alongside human professionals The new literacies of Aoun s humanics are data literacy technological literacy and human literacy Students will need data literacy to manage the flow of big data and technological literacy to know how their machines work but human literacy the humanities communication and design to function as a human being Life long learning opportunities will support their ability to adapt to change The only certainty about the future is change Higher education based on the new literacies of humanics can equip students for living and working through change

Recent Advances in Artificial Intelligence Research and Development Jordi Vitrià, Petia Radeva, Isabel Aguiló, 2004 Artificial Intelligence AI is a scientific field of longstanding tradition with origins in the early years of computer science Today AI has reached a level of maturity that allows us to build highly sophisticated systems which perform very different tasks Nevertheless its evolution has opened up a number of new problems ranging from specific algorithms to system integration which remain elusive and assure a long life for this research field Research progress in this area is today an international challenge that must be supported by world class meetings and organizations but in spite of this fact there is also an objective need for meetings and organizations that support and disseminate research at other levels This book focuses on new and original research on Artificial Intelligence

Recent Advances in Material, Manufacturing, and Machine Learning Bjorn Schuller, Rajeev Gupta, Rakesh Mote, Abhishek Sharma, J.P. Giri, R.B. Chadge, 2024-06-17 The main aim of the 2nd international conference on recent advances in materials manufacturing and machine learning processes 2023 RAMMML 23 is to bring together all interested academic researchers scientists engineers and technocrats and provide a platform for continuous improvement of manufacturing machine learning design and materials engineering research RAMMML 2023 received an overwhelming response with more than 530 full paper submissions After due and careful scrutiny about 120 of them have been selected for presentation The papers submitted have been reviewed by experts from renowned institutions and subsequently the authors have revised the papers duly incorporating the suggestions of the reviewers This has led to significant improvement in the quality of the contributions Taylor Francis publications CRC Press have agreed to publish the selected proceedings of the conference in their book series of Advances in Mechanical Engineering and Interdisciplinary Sciences This enables fast dissemination of the papers worldwide and increases the scope of visibility for the research contributions of the authors

Recent Advances in Mobile Robotics Andon Topalov, 2011-12-14 Mobile robots are the focus of a great deal of current research in robotics Mobile robotics is a young multidisciplinary field involving knowledge from many areas including electrical electronic and mechanical engineering computer cognitive and social sciences Being engaged in the design of automated systems it lies at the intersection of artificial intelligence computational vision and robotics Thanks to the numerous researchers sharing their goals visions and results within the community mobile robotics is becoming a very rich and stimulating area The book *Recent Advances in Mobile Robotics*

addresses the topic by integrating contributions from many researchers around the globe It emphasizes the computational methods of programming mobile robots rather than the methods of constructing the hardware Its content reflects different complementary aspects of theory and practice which have recently taken place We believe that it will serve as a valuable handbook to those who work in research and development of mobile robots Modelling Human Motion Nicoletta Noceti,Alessandra Sciutti,Francesco Rea,2020-07-09 The new frontiers of robotics research foresee future scenarios where artificial agents will leave the laboratory to progressively take part in the activities of our daily life This will require robots to have very sophisticated perceptual and action skills in many intelligence demanding applications with particular reference to the ability to seamlessly interact with humans It will be crucial for the next generation of robots to understand their human partners and at the same time to be intuitively understood by them In this context a deep understanding of human motion is essential for robotics applications where the ability to detect represent and recognize human dynamics and the capability for generating appropriate movements in response sets the scene for higher level tasks This book provides a comprehensive overview of this challenging research field closing the loop between perception and action and between human studies and robotics The book is organized in three main parts The first part focuses on human motion perception with contributions analyzing the neural substrates of human action understanding how perception is influenced by motor control and how it develops over time and is exploited in social contexts The second part considers motion perception from the computational perspective providing perspectives on cutting edge solutions available from the Computer Vision and Machine Learning research fields addressing higher level perceptual tasks Finally the third part takes into account the implications for robotics with chapters on how motor control is achieved in the latest generation of artificial agents and how such technologies have been exploited to favor human robot interaction This book considers the complete human robot cycle from an examination of how humans perceive motion and act in the world to models for motion perception and control in artificial agents In this respect the book will provide insights into the perception and action loop in humans and machines joining together aspects that are often addressed in independent investigations As a consequence this book positions itself in a field at the intersection of such different disciplines as Robotics Neuroscience Cognitive Science Psychology Computer Vision and Machine Learning By bridging these different research domains the book offers a common reference point for researchers interested in human motion for different applications and from different standpoints spanning Neuroscience Human Motor Control Robotics Human Robot Interaction Computer Vision and Machine Learning Chapter The Importance of the Affective Component of Movement in Action Understanding of this book is available open access under a CC BY 4 0 license at link springer com **From batch-size 1 to serial production: Adaptive robots for scalable and flexible production systems** Mohamad Bdiwi,Arvid Hellmich,Steffen Ihlenfeldt,Andreas Mueller,2023-05-24 **Recent Advances in Soft Computing and Cybernetics** Radek Matoušek,Jakub Kůdela,2021-02-05 This monograph is intended for researchers and

professionals in the fields of computer science and cybernetics Nowadays the areas of computer science and cybernetics mainly its artificial intelligence branches are subject to an immense degree of study and are applied in a wide range of technical and industrial projects The individual chapters of this monograph were developed from a series of invited lectures at the Brno University of Technology in the years 2018 and 2019 The main aim of these lectures was to create an opportunity for students academics and professionals to exchange ideas novel research methods and new industrial applications in the fields related to soft computing and cybernetics The authors of these chapters come from around the world and their works cover both new theoretical and application oriented results from areas such as automation control robotics optimization statistics reinforcement learning image processing and evolutionary algorithms

AETA 2019 - Recent Advances in Electrical Engineering and Related Sciences: Theory and Application Dario Fernando Cortes Tobar, Vo Hoang Duy, Tran Trong Dao, 2020-08-10 This proceedings book features selected papers on 12 themes including telecommunication power systems digital signal processing robotics control systems renewable energy power electronics soft computing and more Covering topics such as optoelectronic oscillator at S band and C band for 5G telecommunications neural networks identification of eleven types of faults in high voltage transmission lines cyber attack mitigation on smart low voltage distribution grids optimum load of a piezoelectric based energy harvester the papers present interesting ideas and state of the art overviews

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