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A Review of Reinforcement Learning for Fixed-Wing Aircraft Control Tasks

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ABSTRACT Reinforcement learning (RL) has seen an uptick in research interest in recent years, with many papers published in a plethora of different fields, topics and applications. A lot of that can be attributed to the recent advancements in machine learning (ML) and deep learning (DL) as a whole, the power of deep neural networks and the incorporation of them into reinforcement learning algorithms and techniques. This marriage of deep neural networks and traditional reinforcement learning methods has enabled reinforcement learning algorithms to achieve incredible results in use-cases that were previously deemed to be too complex. One of these highly complex scenarios is the realm of flight. In the last few years the number of papers published in this field has increased dramatically, but there is a fairly big divide between two major categories (quadcopters vs. fixed-wing aircraft). There is published work focusing on reinforcement learning using quadcopters, also known as drones, and there is published work focusing on fixed-wing aircraft, the more traditional aircraft, commonly referred to as airplanes. This paper focuses on the latter and will give an overview over the current state of reinforcement learning in the field of fixed-wing aviation. It will look into available toolkits usable for research as well as give an overview of different fields and tasks within reinforcement learning for fixed-wing aircraft control tasks. It contributes by providing detailed information about the methodologies used in each paper, while pointing out each paper's contributions as well. A total of 48 papers on fixed-wing RL and airplane control are discussed. With the main focus lying on papers published post 2015, after the publication of Mnih et al.'s impactful deep RL paper.

INDEX TERMS Airplanes, Artificial Intelligence, Autonomous Flight, Aviation, Deep Learning, Deep Reinforcement Learning, Fixed-Wing Aircraft, Flight Control, Machine Learning, Reinforcement Learning

I. INTRODUCTION

Reinforcement learning (RL) has been studied for many years already, but it has just seen its biggest jump in popularity and applicability in recent years. A lot of that can be attributed to Mnih et al. [1], [2], who introduced the deep Q-network (DQN) methodology, which successfully implemented deep neural networks (DNN) into the traditional reinforcement learning workflow. Before DQNs, a lot of the RL landscape was shaped by look-up table approaches, where the policy was simply saved in such a table. This obviously meant that RL at that point in time was rather limited, since otherwise the table would be exorbitantly large

(because table based RL does not generalize). One very popular algorithm at the time was Q-learning (QL) [3]. An early successful experiment of using neural networks (NN) with RL was done by Tesauro et al. [4], but it was found to not be generally applicable to other fields. Mnih's DQN managed to work in a wide variety of fields and led to somewhat of an RL boom. Many works were conducted in many different fields and areas, algorithms were improved, new ones developed and toolkits and code bases were created to aid researchers in setting up their respective work. Another big leap was done when Silver et al. [5], [6] developed and published AlphaGo. This RL model managed to beat the

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Handbook of Pragmatic Language Disorders Louise Cummings, 2021-09-22 This reference work is the first to examine pragmatic language disorders of clients in complex and underserved populations In chapters written by a range of experts the unique pragmatic language skills of clients are examined allowing for a broad overview The text gives focus to client groups with complex cognitive and psychiatric problems and children and adults that have been underserved by clinical language services because of maltreatment and social exclusion Pragmatic disorders are examined in children with sensory loss children who have been exposed to HIV and substance abuse and adults with Huntington s disease and other complex neurodegenerative pathologies This Handbook is an essential reference for researchers and clinicians in speech language pathology linguistics psychology and education

Handbook of Research on the Influence and Effectiveness of Gamification in Education Bernardes, Oscar, Amorim, Vanessa, Moreira, Antonio Carrizo, 2022-05-20 Gamification is an increasingly popular technology that has been utilized across a number of fields such as business medicine and education As education continues to turn toward online teaching and learning gamification is one of many new technologies that have been proven to assist educators in providing holistic and effective instruction Additional research is required to ensure this technology is utilized appropriately within the classroom The Handbook of Research on the Influence and Effectiveness of Gamification in Education considers the importance of gamification in the current learning environment and discusses the best practices opportunities and challenges of this innovative technology within an educational setting Covering a wide range of critical topics such as engagement serious games and escape rooms this major reference work is essential for policymakers academicians administrators scholars researchers practitioners instructors and students

Practical Management of Research Animal Care and Use Programs Javier Guillén, Viola Galligioni, 2024-11-06 This book provides a complete guide to all the aspects to consider during planning establishing and managing ethically and efficiently research animal care and use programs taking into account all stakeholders involved in the process Practical

information on how to address the general and particular needs of all animal care and use program areas is provided. Consequently the reader is supported with getting their project ethically and legally compliant and implemented efficiently with organizing safe and appropriate facilities and equipment as well as hiring sufficiently trained personnel. Furthermore strategies for impactful internal and external communication are outlined. Responsible use of animals in research can be nothing but teamwork. The environment and professional experience of all involved stakeholders are the key for ensuring quality science as well as animal and personnel welfare. Research animal care and use programs represent a complex system in which animals, legislation and good practices, facility personnel and researchers interact on a daily basis. Thoughtful planning from the first step ensures animal welfare and improves the quality of in vivo experimentation. This book addresses animal program managers, veterinarians, researchers and technicians working in research animal facilities. Chapter 18 is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com. [A](#)

[Psychoanalytic Approach to Smoking Cessation](#) Fung Ko, 2023-12-18. A Psychoanalytic Approach to Smoking Cessation: The Cigarette as a Transitional Object provides an accessible understanding to the unconscious motive behind smoking addiction using Winnicott's concept of the transitional object. The book is divided thematically into six parts. Ko begins by outlining the conscious motives for smoking from a psychological perspective and looks at commercial research conducted by the tobacco industry before using psychoanalytically informed cross disciplinary literature to assess the unconscious motives for smoking. She expertly introduces Winnicott's view on smoking addiction using his concept of the transitional object and highlights the power of the Free Association Narrative Interview method in accessing the unconscious and embedded emotional experiences. Using clinical examples she illustrates the benefits of this method as a tool to elicit free associations from research respondents. She details the parallels between the individual respondents' smoking experience as well as their relationship with cigarettes and the seven qualities of transitional objects outlined by Winnicott in his 1953 landmark paper. Ko concludes by emphasising the significance and implications of this thesis to smokers and public health policy as well as the smoking cessation approach and proposed directions for future research. This book is an essential resource for psychoanalysts and psychotherapists working in smoking cessation organisations as well as those working in addiction services. [Powerful Practices for High-Performing Special Educators](#) Robert Kaufman, Robert Wandberg, 2015-05-26.

Special education teachers face unique challenges especially when they are just beginning. This essential resource offers special educators a blueprint for dealing with the most common challenges they face both in the classroom and in the larger school environment. These research based strategies help teachers meet the academic needs of diverse students with disabilities including those who are also English language learners in areas such as setting up a classroom, managing student behavior, designing effective instruction, incorporating technology, embracing diversity and more. Each chapter features an overview and objectives, a brief research review, step by step strategies that can be used immediately, examples and

scenarios from real teaching experiences Self assessments and reflections This all in one reference book offers the tools strategies and support special educators need for success in their first year and every year thereafter *Exploring Criminal and Illegal Enterprise* Gerard McElwee,Robert Smith,2015-05-22 This book examines the illegal behaviour of entrepreneurs and discusses how criminal entrepreneurs acquire information learn from their entrepreneurial experiences and utilize acquired knowledge to develop their organizations **Communication and Intelligent Systems** Harish Sharma,Mukesh Kumar Gupta,G. S. Tomar,Wang Lipo,2021-06-28 This book gathers selected research papers presented at the International Conference on Communication and Intelligent Systems ICCIS 2020 organized jointly by Birla Institute of Applied Sciences Uttarakhand and Soft Computing Research Society during 26 27 December 2020 This book presents a collection of state of the art research work involving cutting edge technologies for communication and intelligent systems Over the past few years advances in artificial intelligence and machine learning have sparked new research efforts around the globe which explore novel ways of developing intelligent systems and smart communication technologies The book presents single and multi disciplinary research on these themes in order to make the latest results available in a single readily accessible source

Sustainability Fausto Pedro García Márquez,Benjamin Lev,2023-01-16 This book provides relevant theoretical frameworks and the latest empirical research findings in Operations Research OR and Management Science MS as applied to sustainability Its goal is to identify and describe ways in which OR and MS have been applied to and influenced the development of sustainability Many of the issues we face today stem from the interconnectivity of the economy society and the environment and from how both the economy and society are affecting the environment In response there have been a range of local and global efforts to advance society without harming the natural environment The book showcases how OR MS can help to address these issues specifically with regard to renewable energy smart industry smart cities transportation smart homes and devices etc This book is intended for professionals in the fields of energy engineering information science mathematics and economics and for researchers who wish to develop new skills in connection with sustainability or whose work involves sustainability *Design of Experiments for Reinforcement Learning* Christopher Gatti,2014-11-22 This thesis takes an empirical approach to understanding of the behavior and interactions between the two main components of reinforcement learning the learning algorithm and the functional representation of learned knowledge The author approaches these entities using design of experiments not commonly employed to study machine learning methods The results outlined in this work provide insight as to what enables and what has an effect on successful reinforcement learning implementations so that this learning method can be applied to more challenging problems Serving Library Users from Asia John Hickok,2019-06-12 Asian populations are among some of the fastest growing cultural groups in the US While books on serving other target groups in libraries have been published e g disabled Latino seniors etc few books on serving library users of Asian heritage have been written Thus the timely need for this book Rather than a generalized overview of Asians as

a whole this book has 24 separate chapters each on 24 specific Asian countries cultures of East Southeast and South Asia with a wealth of resources for understanding interacting with outreaching to and serving library users of each culture Resources include cultural guides both print and online language helps with sample library vocabulary Asian booksellers nationwide cultural groups professional literature and more Resources and suggestions are given for all three types of libraries public school and academic making this book valuable for all librarians The demographics of each Asian culture numbers and distribution plus history of immigration and international student enrollment is also featured As a bonus each chapter spotlights a US public school and academic library providing model outreach to Asian library users Additionally this book provides a detailed description and analysis of libraries in each of the 24 Asian countries The history development facilities conditions technology classification systems and more of public school and academic libraries are all discussed with detailed documentation Country conditions influencing libraries and library use are also described literacy levels reading cultures languages and writing systems educational systems and more Based on the author s 15 years of research and travels to Asia this work is a must have for all librarians

Smart Computing Paradigms: Sustainable Computing Vikrant Bhateja,Aimé Lay-Ekuakille,Suresh Limkar,V. V. S. S. S Chakravarthy,2025-08-02 The proceeding presents best selected papers presented at 6th International Conference on Smart Computing and Informatics SCI 2024 held at Department of Computer Science and Engineering Anil Neerukonda Institute of Technology Sciences ANITS Visakhapatnam India during 19 20 April 2024 It presents advanced and multi disciplinary research towards the design of smart computing and informatics The theme is on a broader front focuses on various innovation paradigms in system knowledge intelligence and sustainability that may be applied to provide realistic solutions to varied problems in society environment and industries The scope is also extended towards the deployment of emerging computational and knowledge transfer approaches optimizing solutions in various disciplines of science technology and healthcare The work is published in three volumes

Commerce Business Daily ,1999-07

Cognitive and Personality Variables in the Development of Behavioral Addictions in Adolescence and Emerging Adulthood Alessia Passanisi,Luca Milani,Ugo Pace,Adriano Schimmenti,2022-05-03

Advances in Asset Management and Condition Monitoring Andrew Ball,Len Gelman,B. K. N. Rao,2020-08-27 This book gathers select contributions from the 32nd International Congress and Exhibition on Condition Monitoring and Diagnostic Engineering Management COMADEM 2019 held at the University of Huddersfield UK in September 2019 and jointly organized by the University of Huddersfield and COMADEM International The aim of the Congress was to promote awareness of the rapidly emerging interdisciplinary areas of condition monitoring and diagnostic engineering management The contents discuss the latest tools and techniques in the multidisciplinary field of performance monitoring root cause failure modes analysis failure diagnosis prognosis and proactive management of industrial systems There is a special focus on digitally enabled asset management and covers several topics such as condition monitoring maintenance structural health monitoring non

destructive testing and other allied areas Bringing together expert contributions from academia and industry this book will be a valuable resource for those interested in latest condition monitoring and asset management techniques

Design and Manufacture of Structural Composites Lee Harper, Mike Clifford, 2022-11-30 Design and Manufacture of Structural Composites provides an overview of the main manufacturing challenges encountered when processing fibre reinforced composite materials Composites are unique in that the material is created at the same time as the structure forming a very close link between the constituents the manufacturing process and the resulting mechanical performance This book takes an in depth look at material choices and the intermediate steps required to convert different fibre and matrix combinations into finished products It provides an insight into recent developments for each of the manufacturing processes covered addressing design cost rate and mechanical performance Topics covered include an introduction to composite materials material preforming and conversion moulding digital design and sustainability which addresses waste reduction disassembly and fibre recovery This book has been developed primarily as a teaching resource with contributions from leading experts in the field The content has evolved from courses given by the authors to mechanical engineering and materials science students at both undergraduate and postgraduate levels It also draws upon experience gained during research projects and from leading industry experts It therefore provides non specialists with a valuable introduction to composite manufacturing techniques helping to determine the most suitable manufacturing routes and to understand the challenges associated with the production of high performance composite components Provides an overview of the most common manufacturing routes for fibre reinforced composites including the influence of the manufacturing route on mechanical properties production volume and component cost Discusses recent advances in composite manufacturing including the use of automation process simulation digital factories and solutions to improve sustainability Looks at where the composites sector is heading and discusses some of the challenges faced by end users looking to scale up production and increase the uptake of fibre reinforced composites for structural applications

Intelligent Systems and Applications Kohei Arai, 2021-08-06 This book presents Proceedings of the 2021 Intelligent Systems Conference which is a remarkable collection of chapters covering a wider range of topics in areas of intelligent systems and artificial intelligence and their applications to the real world The conference attracted a total of 496 submissions from many academic pioneering researchers scientists industrial engineers and students from all around the world These submissions underwent a double blind peer review process Of the total submissions 180 submissions have been selected to be included in these proceedings As we witness exponential growth of computational intelligence in several directions and use of intelligent systems in everyday applications this book is an ideal resource for reporting latest innovations and future of AI The chapters include theory and application on all aspects of artificial intelligence from classical to intelligent scope We hope that readers find the book interesting and valuable it provides the state of the art intelligent methods and techniques for solving real world problems along with a vision of the

future research *Lipid-Drug Conjugates* Malay K. Das,2025-03-28 Lipid Drug Conjugates Innovation and Applications highlights the most recent advances and clinical applications of nano lipid drug conjugates for enhanced drug delivery and targeting in the treatment of cancer glioblastoma Alzheimer s AIDS and bacterial diseases In addition various conjugation methods to prepare lipid drug conjugates and their pharmacokinetics in vivo are explored together with the production and characterization of various delivery carriers for lipid drug conjugates The contents of this book provide pharmaceutical science researchers with the tools to explore targeted drug delivery leveraging the unique characteristics of lipid conjugates Scientists in the corporate setting can benefit of the cases and techniques presented in developing new formulations and products Introduces the principles methods and therapeutic benefits of lipid drug conjugates Summarizes recent scientific progress and novel applications of nano lipid drug conjugates Provides supportive clinical evidence for several applications

Ultimate Guide to Physician Associate OSCEs Ameena Azad,2021-07-05 Looking for an OSCE resource directly tailored to Physician Associates Then the The Ultimate Guide to Physician Associate OSCEs is the book for you OSCEs are one of the key examinations in the medical world and there are limited resources available As a PA you are expected to carry out history examination and procedural skills this book will allow students to practice against checklists so they can become sleek and brilliant clinicians Often it is difficult for students to gauge how OSCEs are marked and how much to cover therefore this book is intended to fill these gaps by going through practical and essential tips along with clear and step by step checklists for commonly encountered OSCE stations Leveraging Applications of Formal Methods, Verification and Validation. Application Areas Tiziana Margaria,Bernhard Steffen,2024-10-25 The ISoLA 2024 proceedings constitutes contributions of the associated events held at the 12th International Symposium on Leveraging Applications of Formal Methods ISoLA 2024 which took place in Crete Greece in October 2024 ISoLA 2024 provides a forum for developers users and researchers to discuss issues related to the adoption and use of rigorous tools and methods for the specification analysis verification certification construction test and maintenance of systems from the point of view of their different application domains

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