



Kathryn E. Merrick
Mary Lou Maher

Motivated Reinforcement Learning

Curious Characters for
Multiuser Games



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Motivated Reinforcement Learning Curious Characters For Multiuser Games

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Motivated Reinforcement Learning Curious Characters For Multiuser Games:

Motivated Reinforcement Learning Kathryn E. Merrick, Mary Lou Maher, 2009-06-12 Motivated learning is an emerging research field in artificial intelligence and cognitive modelling Computational models of motivation extend reinforcement learning to adaptive multitask learning in complex dynamic environments the goal being to understand how machines can develop new skills and achieve goals that were not predefined by human engineers In particular this book describes how motivated reinforcement learning agents can be used in computer games for the design of non player characters that can adapt their behaviour in response to unexpected changes in their environment This book covers the design application and evaluation of computational models of motivation in reinforcement learning The authors start with overviews of motivation and reinforcement learning then describe models for motivated reinforcement learning The performance of these models is demonstrated by applications in simulated game scenarios and a live open ended virtual world Researchers in artificial intelligence machine learning and artificial life will benefit from this book as will practitioners working on complex dynamic systems in particular multiuser online games

Computational Models of Motivation for Game-Playing Agents

Kathryn E. Merrick, 2016-09-22 The focus of this book is on three influential cognitive motives achievement affiliation and power motivation Incentive based theories of achievement affiliation and power motivation are the basis for competence seeking behaviour relationship building leadership and resource controlling behaviour in humans In this book we show how these motives can be modelled and embedded in artificial agents to achieve behavioural diversity Theoretical issues are addressed for representing and embedding computational models of motivation in rule based agents learning agents crowds and evolution of motivated agents Practical issues are addressed for defining games mini games or in game scenarios for virtual worlds in which computer controlled motivated agents can participate alongside human players The book is structured into four parts game playing in virtual worlds by humans and agents comparing human and artificial motives game scenarios for motivated agents and evolution and the future of motivated game playing agents It will provide game programmers and those with an interest in artificial intelligence with the knowledge required to develop diverse believable game playing agents for virtual worlds

Intrinsically Motivated Open-Ended Learning in Autonomous Robots

Vieri Giuliano Santucci, Pierre-Yves Oudeyer, Andrew Barto, Gianluca Baldassarre, 2020-02-19 *Handbook of Research on Engineering Education in a Global Context* Smirnova, Elena V., Clark, Robin P., 2018-08-31 Engineering education methods and standards are important features of engineering programs that should be carefully designed both to provide students and stakeholders with valuable active integrated learning experiences and to provide a vehicle for assessing program outcomes With the driving force of the globalization of the engineering profession standards should be developed for mutual recognition of engineering education across the world but it is proving difficult to achieve The Handbook of Research on Engineering Education in a Global Context provides innovative insights into the importance of quality training and

preparation for engineering students It explores the common and current problems encountered in areas such as quality and standards management information systems innovation and enhanced learning technologies in education as well as the challenges of employability entrepreneurship and diversity This publication is vital reference source for science and engineering educators engineering professionals and educational administrators interested in topics centered on the education of students in the field of engineering

Integrating Cognitive Architectures into Virtual Character Design Turner, Jeremy Owen, Nixon, Michael, Bernardet, Ulysses, DiPaola, Steve, 2016-06-06 Cognitive architectures represent an umbrella term to describe ways in which the flow of thought can be engineered towards cerebral and behavioral outcomes Cognitive Architectures are meant to provide top down guidance a knowledge base interactive heuristics and concrete or fuzzy policies for which the virtual character can utilize for intelligent interaction with his/her situated virtual environment Integrating Cognitive Architectures into Virtual Character Design presents emerging research on virtual character artificial intelligence systems and procedures and the integration of cognitive architectures Emphasizing innovative methodologies for intelligent virtual character integration and design this publication is an ideal reference source for graduate level students researchers and professionals in the fields of artificial intelligence gaming and computer science

Motivation, 2016-10-28 Motivation Theory Neurobiology and Applications is inspired by a question central to health care professionals teachers parents and coaches alike How can an individual be motivated to perform a given activity or training It presents novel measurements of motivation developed in psychology and economics recent insights into the neurobiology of motivation and current research on applications designed to boost motivation in neurorehabilitation education and sports In addition tactics on how to connect these different research and knowledge fields within a common theoretical framework of motivation is discussed Thus in short the book provides an integrative interdisciplinary up to date accounting on the neurobiology of motivation and how it might be boosted Provides an integration of the neurosciences their clinical challenges and applicable research Includes both an interdisciplinary and integrative nature Contains a broad array of subject matter that will be of interest to a large target audience Presents contributions from experts in their respective fields

The British National Bibliography Arthur James Wells, 2009 *Journal of Game Development*, 2004 **Speculations in Science and Technology**, 1995 *Reinforcement Learning with Motivations for Realistic Agents* Jacquelyne T.

Forgette, 2013 Believable virtual humans have important applications in various fields including computer based video games The challenge in programming video games is to produce a non player controlled character that is autonomous and capable of action selections that appear human In this thesis motivations are used as a basis for learning using reinforcements With motives driving the decisions of the agents their actions will appear less structured and repetitious and more human in nature This will also allow developers to easily create game agents with specific motivations based mostly on their narrative purposes With minimum and maximum desirable motive values the agents use reinforcement learning to maximize their

rewards across all motives Results show that an agent can learn to satisfy as many as four motives even with significantly delayed rewards and motive changes that are caused by other agents While the actions tested are simple in nature they show the potential of a more complicated motivation driven reinforcement learning system The game developer need only define an agent's motivations based on the game narrative and the agent will learn to act realistically as the game progresses

Reinforcement Learning for Qualitative Group Behaviours Applied to Non-player Computer Game Characters Jay Bradley, 2010 This thesis investigates how to train the increasingly large cast of characters in modern commercial computer games Modern computer games can contain hundreds or sometimes thousands of non player characters that each should act coherently in complex dynamic worlds and engage appropriately with other non player characters and human players Too often it is obvious that computer controlled characters are brainless zombies portraying the same repetitive hand coded behaviour Commercial computer games would seem a natural domain for reinforcement learning and as the trend for selling games based on better graphics is peaking with the saturation of game shelves with excellent graphics it seems that better artificial intelligence is the next big thing The main contribution of this thesis is a novel style of utility function group utility functions for reinforcement learning that could provide automated behaviour specification for large numbers of computer game characters Group utility functions allow arbitrary functions of the characters performance to represent relationships between characters and groups of characters These qualitative relationships are learned alongside the main quantitative goal of the characters Group utility functions can be considered a multi agent extension of the existing programming by reward method and an extension of the team utility function to be more generic by replacing the sum function with potentially any other function Hierarchical group utility functions which are group utility functions arranged in a tree structure allow character group relationships to be learned For illustration the empirical work shown uses the negative standard deviation function to create balanced or equal performance behaviours This balanced behaviour can be learned between characters groups and also between groups and single characters Empirical experiments show that a balancing group utility function can be used to engender an equal performance between characters groups and groups and single characters It is shown that it is possible to trade some amount of quantitatively measured performance for some qualitative behaviour using group utility functions Further experiments show how the results degrade as expected when the number of characters and groups is increased Further experimentation shows that using function approximation to approximate the learners value functions is one possible way to overcome the issues of scale All the experiments are undertaken in a commercially available computer game engine In summary this thesis contributes a novel type of utility function potentially suitable for training many computer game characters and empirical work on reinforcement learning used in a modern computer game engine

Curiosity-Driven Skill-Prior Reinforcement Learning Hauke Thomas Bünning, 2023 Hybrid Modular Reinforcement Learning for Game Agent Control Christopher J. Hanna, 2011 Intelligent virtual characters play an important

role in creating an engaging player experience in modern computer games Imbuing these characters with learning capabilities curtails the need to define every nuance of their behaviour during development For this reason there is growing interest in introducing machine learning techniques into game agent control architectures However computer game environments tend to be highly complex and dynamic which necessitates the use of large state spaces to define effective agent behaviour Traditional learning strategies are not suited to operating under these circumstances due to the Curse of Dimensionality Therefore in order for their learning to be effective agents require architectures that can handle complex dynamic state spaces Within this thesis it is demonstrated that modular reinforcement learning and reactive deliberative hybridisation techniques present a powerful combination for the implementation of effective game agent architectures A novel approach to modular reinforcement learning is presented that utilises a fine granularity of modules This new approach necessitated the development and evaluation of new methods for action selection reward distribution and exploration Furthermore a new method of hybridising modular architectures with deliberative mechanisms is proposed and evaluated Results demonstrate that agents implemented with hybrid reactive deliberative architecture can outperform purely reactive and purely deliberative agents particularly in resource constrained applications

Predictive Modelling with Uncertainty for Intrinsically Motivated Reinforcement Learning Phil Bradfield,2022 **Intrinsically Motivated Reinforcement Learning** ,2005 Psychologists call behavior intrinsically motivated when it is engaged in for its own sake rather than as a step toward solving a specific problem of clear practical value But what we learn during intrinsically motivated behavior is essential for our development as competent autonomous entities able to efficiently solve a wide range of practical problems as they arise In this paper we present initial results from a computational study of intrinsically motivated reinforcement learning aimed at allowing artificial agents to construct and extend hierarchies of reusable skills that are needed for competent autonomy

The Enigmatic Realm of **Motivated Reinforcement Learning Curious Characters For Multiuser Games**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Motivated Reinforcement Learning Curious Characters For Multiuser Games** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

<https://crm.allthingsbusiness.co.uk/book/uploaded-files/default.aspx/Anxiety%20Relief%20Near%20Me.pdf>

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