

Adaptive Sensory Environments An Introduction

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ADAPTIVE CHANGES IN SENSORIMOTOR COORDINATION ...

ADAPTIVE CHANGES IN SENSORIMOTOR COORDINATION AND MOTION SICKNESS FOLLOWING REPEATED EXPOSURES TO VIRTUAL ENVIRONMENTS DL HARM1, LC TAYLOR2 and JJ Bloomberg1 1NASA Johnson Space Center, Houston, TX; 2Wyle Laboratories, Houston TX INTRODUCTION

Adaptability and efficiency in neural coding

in dynamic environments This work generalizes current theories of efficient neural coding to dynamic environ-ments, and thereby provides a unifying perspective on adaptive neural dynamics across different sensory systems, environments, and tasks INTRODUCTION

Information Coding through Adaptive Gating of Synchronized ...

Information Coding through Adaptive Gating of Synchronized Thalamic Bursting Clarissa J Whitmire,1 Christian Waiblinger,1,2,3 Cornelius

Schwarz,2,3 and Garrett B Stanley1,* 1Wallace H Coulter Department of Biomedical Engineering, Georgia Institute of ...

Adaptive Technologies - ETS Home

environments that broaden the types of interaction between students and computers For instance, an adaptive algorithm may be employed in a program that selects an assessment task or learning object most appropriate for a learner at a particular point in time The effectiveness of adaptive technologies hinges on accurate and informative student or

Decentralized, Adaptive Coverage Control for Networked Robots

Decentralized, Adaptive Coverage Control for Networked Robots Mac Schwager, Daniela Rus*, and Jean-Jacques Slotine † November, 2007 Revised July, 2008 Abstract A decentralized, adaptive control law is presented to drive a network of mobile robots to an optimal

An Adaptive Multi-Sensor Data Fusion Method Based on Deep ...

An Adaptive Multi-Sensor Data Fusion Method which are (1) the feature extraction from various types of sensory data and (2) the selection of a suitable fusion level It is usually difficult to choose an optimal feature or environments, which makes them suffer from a variety of failures and damages [1,3] causing unwanted

The Effects of a Multisensory Environment on Negative ...

INTRODUCTION Sensory integration theory was introduced by Jean Ayres, PhD, OTR in 1968, to explain fourth major assumption of sensory integration theory is that eliciting an adaptive behavior promotes sensory integration, and in turn, the ability to produce an adaptive behavior reflects multi-sensory environments are used with

Unsupervised Predictive Memory in a Goal-Directed Agent

instantaneous sensory data to actions fail in partially observed environments where the sensory data are incomplete Therefore, in this work we restrict our attention to memory-dependent policies, where the action distribution depends on the entire sequence of past observations

Assistive Technology for Students with Disabilities

Sensory enhancers help students with visual, hearing or orthopedic impairments better interact with their environments Sensory enhancers can include augmentative communication devices, text magnifiers, scanners with speech synthesizers and voice analyzers Keyboard adaptations and emulators that serve as alternatives to standard keyboards

Chapter 1 INTRODUCTION

children with Autistic Spectrum Disorders receiving Occupational Therapy - Sensory Integration ____ 1 Chapter 1 INTRODUCTION The prevalence of autism is on the increase worldwide Autism is a developmental disorder and currently there is no known cure (Allik, Larsson, & Smedje, 2006; Rutter,

The evolution of fidelity in sensory systems

The evolution of fidelity in sensory systems Andrew T Sornborgera,!, Malcolm R Adamsb a Department of Mathematics and Faculty of Engineering, University of Georgia, Athens, GA 30602, USA b Department of Mathematics, University of Georgia, Athens, GA 30602, USA article info Article history: Received 31 July 2007 Received in revised form 29 February 2008

Assistive Technology for Children with Disabilities ...

8 Assistive Technology for Children with Disabilities 9 private sector, communities, and children with disabilities and their families It is estimated that there are ...

Environment Structure and Adaptive Behavior From the ...

Environment Structure and Adaptive Behavior From the Ground Up Peter M Todd Stewart W Wilson The Rowland Institute for Science 100 Edwin H Land Boulevard Cambridge, MA 02142 USA ptodd@spowlandorg wilson@smithrowlandorg Abstract We describe a framework for exploring the evolution of adaptive behaviors in response to different physical

Sensory Integration: Helping Students with Autism ...

Introduction Students with autism who have difficulties recognizing and coping with the stimuli in their environments (sensory processing disorder) face daily challenges These challenges are ones that individuals without autism and sensory processing disorder may not understand For

Differential Survival between Visual Environments Supports ...

Note Differential Survival between Visual Environments Supports a Role of Divergent Sensory Drive in Cichlid Fish Speciation Martine E Maan,1,2,* Ole Seehausen,2 and Ton G G Groothuis1 1 Groningen Institute for Evolutionary Life Sciences, University of Groningen, PO ...

Adapting to Incarceration: Inmate Perceptions of Prison ...

Chapter I - Introduction The United States has experienced unprecedented growth in the prison population since the early 1970s Prior to the expansion of prison systems, the rate of imprisonment in the United States remained steady at approximately 110 inmates per 100,000 residents (Petersilia, 2003)

Adaptive Array Processing for Multiple Microphone Hearing Aids

Adaptive Array Processing for Multiple Microphone Hearing Aids by Patrick M Peterson Submitted to the Department of Electrical Engineering and Computer Science on February 2, 1989 in partial fulfillment of the requirements for the degree of Doctor of Science Abstract