

Design, Construction, and Testing of a Novel Robotic Workstation

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Abstract

This paper describes the development of a novel robotic workstation which users configure to a variety of spatial forms. These configurations allow users to define their physical workspace as well as to situate computer and analogue tools precisely to support a broad range of work-and-leisure computing activities. The workstation is part of our *Animated Work Environment (AWE)* project aimed at programmable smart environments which fundamentally alter user experience. This paper describes, in detail, the design, realization, and initial testing of the multi-panel robot workstation which itself represents a novel type of robot surface.

Keywords: robotics, animation, human-robotic interaction, intelligent environments

1 Introduction

In an increasingly “digital” society, many of our everyday activities are becoming more efficient, stream-lined, and complex due to the wide-spread adoption of mobile Information Technologies [1]. People can answer e-mails, search the internet, record media such as audio files, photographs and videos, and edit documents on-the-move, using relatively inexpensive cell phones, PDAs and laptop computers – portable devices easily synchronized. But while Information Technologies have greatly expanded the mobility of computing, it has not offered as much to the relatively static, fixed work environments residing within our workplaces and homes. Here, printed materials and computer peripherals still clutter desks, while traditional furniture and lighting crowd rooms. A different kind of workplace incorporating intelligent, reconfigurable elements promises to better adapt to an increasingly digital world, allowing computer users to become more efficient, more organized, and potentially more creative.

Upon first approach, the robot workstation introduced in this paper appears to be nothing more than a flat wall (Figure 1). When the user takes control it transforms into a personalized, intimate space for the focused composing of documents (Figure 2); or, alternatively, a configuration designed for presenting to an audience (Figure 13a). The workstation efficiently utilizes space by dramatically transforming itself to match the needs and wants of different users. Computing, digital projection, and lighting will emanate from within the workstation itself.

The design concept is not limited to the office. The workstation can function inside distinct rooms of different sizes and purposes because it can adapt its physical form. At home, for instance, the workstation

supports home-office tasks; when these tasks are accomplished, the system provides configurations suited to online gaming (Figure 13b), shopping, viewing, tutoring, and creative/investigative activities.

The concept of a dynamically reconfigurable, intelligent environment is the focus of the larger *Animated Work Environment (AWE)* research project [1], [2]. The multidisciplinary research team is comprised of investigators in Architecture, Robotics, Sociology, and Psychology. In the first year of research, the Sociologists conducted detailed phone surveys of technology users while the Psychologists performed task analyses of a range of subjects chosen to represent a large spectrum of workers performing everyday tasks within their physical work environments [3]. These efforts helped the team identify the needs and wants of workers with respect to the physical environments in which they routinely perform their work. The results strongly support the need for embedded IT within a physical environment that is both intelligent and readily reconfigurable.



Figure 1: Workstation design as a flat wall

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Robotics and Automation Handbook Thomas R. Kurfess, 2018-10-03 As the capability and utility of robots has increased dramatically with new technology robotic systems can perform tasks that are physically dangerous for humans repetitive in nature or require increased accuracy precision and sterile conditions to radically minimize human error The Robotics and Automation Handbook addresses the major aspects of designing fabricating and enabling robotic systems and their various applications It presents kinetic and dynamic methods for analyzing robotic systems considering factors such as force and torque From these analyses the book develops several controls approaches including servo actuation hybrid control and trajectory planning Design aspects include determining specifications for a robot determining its configuration and utilizing sensors and actuators The featured applications focus on how the specific difficulties are overcome in the development of the robotic system With the ability to increase human safety and precision in applications ranging from handling hazardous materials and exploring extreme environments to manufacturing and medicine the uses for robots are growing steadily The Robotics and Automation Handbook provides a solid foundation for engineers and scientists interested in designing fabricating or utilizing robotic systems

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 Teams Tucker Balch, Lynne E. Parker, 2002-04-17

This is a comprehensive volume on robot teams that will be the standard reference on multi robot systems The volume provides not only the essentials of multi agent robotics theory but also descriptions of exemplary implemented systems demonstrating the key concepts of multi robot research Information is presented in a descriptive manner and augmented with detailed mathematical formulations photos diagrams and source code examples

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Education: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2013-09-30 Primary and Secondary education is a formative time for young students Lessons learned before the rigors of higher education help to inform learners future successes and the increasing prevalence of learning tools and technologies can both help and hinder students in their endeavors K 12 Education Concepts Methodologies Tools and Applications investigates the latest advances in online and mobile learning as well as pedagogies and ontologies influenced by current developments in information and communication technologies enabling teachers students and administrators to make the most of their educational experience This multivolume work presents all stakeholders in K 12 education with the tools necessary to facilitate the next generation of student teacher interaction Fabricate 2020 Jane Burry, Jenny E. Sabin, Bob Sheil, Marilena Skavara, 2020-04-06 Fabricate 2020 is the fourth title in the FABRICATE series on the theme of digital fabrication and published in conjunction with a triennial conference London April 2020 The book features cutting edge built projects and work in progress from both academia and practice It brings together pioneers in design and making from across the fields of architecture construction engineering manufacturing materials technology and computation Fabricate 2020 includes 32 illustrated articles punctuated by four conversations between world leading experts from design to engineering discussing themes such as drawing to production behavioural composites robotic assembly and digital craft The Design, Construction, and Testing of an Autonomous Robot George Sergio Vega, 1993 **Robotics Age**, 1983

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