Chapter 3
Secured Assistive System (SEAASY)

Fahad Alsanee
Alamoudi Exchange Company, Saudi Arabia

ABSTRACT

The objective of this research is a maintained system against cyber-attacks. The methodology used is augmented and alternative communication. There are no particular requirements that must be met. Consumers, their families, and a group of trained specialists should all be involved in the decision-making process about the installation of AAC. This chapter will discuss assessing cyber security risks, plans for responding, employee training programs, security audits, software development, secure coding, and industry regulations. It will be able to help create cybersecurity measures that will make healthcare systems more resilient, safeguard patient data, and reduce cyber-attacks. The tool will use AI algorithms to analyze data, and find patterns and unusual behavior. The AI algorithm will determine customized plans for treatment and identifying health risks, wearables, and remote monitoring systems by gathering data and monitor patients with taking medical results. The author will investigate the dangers, limitations, and ethical considerations of employing AI in cybersecurity.

INTRODUCTION

Assistive technologies can be explained as the systems, products, and equipment that have the capability to improve the working, learning, and daily lives of people with disabilities. Assistive technologies over the years have improved the functional capabilities of people with disabilities. Assistive technologies are being implemented

in different educational institutions, healthcare centers, organizations, and other various institutions. This research will be going to investigate the role of assistive technologies in the workplace. The study will investigate how technology can help people with disabilities in performing their job tasks. Various benefits of assistive technologies at the workplace are discussed in detail.

Importance of Assistive Technologies at Workplace

Assistive technologies are not only improving the quality of life of people with disabilities but also helping various organizations improve their performance in the industry. The competition in the local and domestic industries has increased rapidly in recent years and if the business wants to differentiate itself from other competitors then it needs to increase its market share. By focusing on assistive technologies at the workplace organizations can improve the performance of their employees which will ultimately be going to improve the market share of the business. With higher market share the business can gain a competitive advantage over other businesses (Abascal, 2002).

Who Can Benefit From Assistive Technologies?

It is true that assistive technologies have lots of benefits for people with disabilities. With the help of the latest assistive technologies people with disabilities can live a better life and can work like other employees in the corporations. Overall it can be said that assistive technologies have benefits for both employers and employees. Below are some of the major benefits that employees and employers can take from assistive technologies:

Figure 1. Introduction

5 more pages are available in the full version of this document, which may be purchased using the "Add to Cart" button on the publisher's webpage: www.igi-global.com/chapter/secured-assistive-system-seaasy/332956

Related Content

Design and Control of a Hand-Assist Robot with Multiple Degrees of Freedom for Rehabilitation Therapy
Haruhisa Kawasaki, Satoshi Ueki, Satoshi Itoand Tetsuya Mouri (2016). *Virtual Reality Enhanced Robotic Systems for Disability Rehabilitation (pp. 199-234).*
www.irma-international.org/chapter/design-and-control-of-a-hand-assist-robot-with-multiple-degrees-of-freedom-for-rehabilitation-therapy/143484

3D Assistive Technologies and Advantageous Themes for Collaboration and Blended Learning of Users with Disabilities
Georgios A. Dafoulasand Noha Saleeb (2014). *Assistive Technologies: Concepts, Methodologies, Tools, and Applications (pp. 421-453).*
www.irma-international.org/chapter/3d-assistive-technologies-and-advantageous-themes-for-collaboration-and-blended-learning-of-users-with-disabilities/80624

Computer Interventions for Children with Disabilities: Review of Research and Practice
Robert D. Tennyson (2014). *Assistive Technologies: Concepts, Methodologies, Tools, and Applications (pp. 841-864).*
www.irma-international.org/chapter/computer-interventions-for-children-with-disabilities-/80646

Microswitch-Based Programs (MBP) to Promote Communication, Occupation, and Leisure Skills for Children with Multiple Disabilities: A Literature Overview
Fabrizio Stasollaand Viviana Perilli (2015). *Recent Advances in Assistive Technologies to Support Children with Developmental Disorders (pp. 195-216).*
www.irma-international.org/chapter/microswitch-based-programs-mbp-to-promote-communication-occupation-and-leisure-skills-for-children-with-multiple-disabilities/131335

Internet-Based Chronic Disease Self-Management for Youth
Jennifer Stinsonand Navreet Gill (2014). *Assistive Technologies: Concepts, Methodologies, Tools, and Applications (pp. 224-245).*
www.irma-international.org/chapter/internet-based-chronic-disease-self-management-for-youth/80614