



METADATA

Title: Introduction to Human-Computer Interaction

Other Titles: Designing Interactive Technologies

Language: Greek

ISBN: 978-960-603-407-7

Subject: MATHEMATICS AND COMPUTER SCIENCE

Keywords: Interactive Media

Bibliographic Reference: Avouris, N., Katsanos, C., Tselios, N., & Moustakas, K. (2015). Introduction to Human-Computer Interaction [Undergraduate textbook]. Kallipos, Open Academic Editions. <http://dx.doi.org/10.57713/kallipos-598>

Abstract

Interactive technologies have permeated our daily lives to a great extent. The area of science known as Human-Computer Interaction (HCI) focuses on the study of the design, development, and evaluation of Interactive Computer Systems, which are systems that interact to a large extent with their users [ACM SIGCHI 1992]. The main goal of this electronic textbook is to introduce the reader to the basic concepts, methods, rules, design principles, and tools of this field, aimed at supporting the design of user-friendly interactive technologies adapted to the needs and characteristics of their users. The significance of this cognitive subject today is particularly great due to the widespread adoption and multiple uses of interactive technologies such as the internet, a plethora of web applications, and portable devices with high complexity, as well as systems controlling critical

functions in industries, medicine, or transportation. In these cases, the usability of the system allows the operator to make quick and effective decisions on which the lives and health of many citizens depend. The study of human-computer interaction and the acquisition of skills enabling the effective design of user-friendly interactive technologies are the subject of the proposed book. The authors have many years of experience in the field, with the first author having written the oldest and most widely used university textbook on this subject, which is now 15 years old. The proposed electronic textbook is based on an improved version of it, with the assistance of younger researchers who already have significant research and teaching experience in the field in Greece and abroad. The book is accompanied by material for laboratory exercises and group project topics.

