Technical Publications Le Computing For Engineering

Multimedia environments suggest to us a new perception of the state of changes in and the integration of new technologies that can increase our ability to process information. Moreover, they are obliging us to change our idea of knowledge. These changes are reflected in the obvious synergetic convergence of different types of access, communication and information exchange. The multimedia learning environment should not represent a passive object that only contains or assembles information but should become, on one side, the communication medium of the pedagogical intentions of the professor/designer and, on the other side, the place where the learner reflects and where he or she can play with, test and access information and try to interpret it, manipulate it and build new knowledge. The situation created by such a new learning environments that give new powers to individuals, particularly with regard to accessing and handling diversified dimensions of information, is becoming increasingly prevalent in the field of education. The old static equilibrium, in which fixed roles are played by the teacher (including the teaching environment) and the learner, is shifting to dynamic eqUilibrium where the nature of information and its processing change, depending on the situation, the learning context and the individual's needs.

This book includes the extended and revised versions of a set of selected papers from the First NAFOSTED Conference on Information and Computer Science (NICS'2014), held at Le Quy Don Technical Academy, Hanoi, Vietnam from 13/Mar./2014 to 14/Mar./2014. The conference was co-organized by The National Foundation for Science and Technology Development (NAFOSTED) and Le Quy Don Technical Academy. The purpose of the NICS conference series is to promote scientific publications in the country and to provide a platform for high quality academic exchange among scientists in the fields of computer science, information and communication. The conference includes five tracks, namely "Computer Science", "Artificial Intelligence", "Network Systems", "Software Engineering", and "Information Systems". The papers in this book are among the best contributions at NICS'2014 taken into account the quality of their presentation at the conference and the recommendation of the two experts in the extra round of independent review.

This edition of this handbook updates and expands its review of the research, theory, issues and methodology that constitute the field of educational communications and technology. Organized into seven sectors, it profiles and integrates the following elements of this rapidly changing field.

This book is an extensive treatise on the most up-to-date advances in computer graphics

technology and its applications. Both in business and industrial areas as well as in research and development, you will see in this book an incredible devel opment of new methods and tools for computer graphics. They play essential roles in enhancing the productivity and quality of human work through computer graph ics and applications. Extensive coverage of the diverse world of computer graphics is the privilege of this book, which is the Proceedings of InterGraphics '83. This was a truly interna tional computer graphics conference and exhibit, held in Tokyo, April 11-14, 1983, sponsored by the World Computer Grpphics Association (WCGA) and organized by the Japan Management Association (JMA) in coopera'tion' with ·~CM-SIGGRAPH. InterGraphics has over 15 thousands participants. This book consists of seven Chapters. The first two chapters are on the basics of computer graphics, and the remaining five chapters are dedicated to typical appli cation areas of computer graphics. Chapter 1 contains four papers on "graphics techniques". Techniques to generate jag free images, to simulate digital logic, to display free surfaces and to interact with 3 dimensional (3D) shaded graphics are presented. Chapter 2 covers "graphics standards and 3D models" in five papers. Two papers discuss the CORE standard and the GKS standard. Three papers de scribe various 3D models and their evaluations.

Each no. represents the results of the FDA research programs for half of the fiscal year.

Includes Part 1, Number 1: Books and Pamphlets, Including Serials and Contributions to Periodicals (January - June)

This book constitutes the refereed proceedings of the First Latin-American Symposium on Dependable Computing, LADC 2003, held in Sao Paulo, Brazil in

October 2003. The 21 revised full papers presented together with abstracts of invited talks, a panel, workshops, and tutorials were carefully reviewed and selected for presentation. The papers are organized in topical sections on fault injection, security, adaptive fault tolerance, distributed algorithms, and components and fault tolerance.

This book is concerned with linear and nonlinear transformations of digitized images and patterns. Transformation models include linear, quadratic, cubic, bilinear, biquadratic, bicubic, Coons model and other nonlinear forms such as harmonic, projective, and perspective transformations. Discrete techniques have been developed to realize both forward and inverse transformations. The latter can be applied to normalize distorted images and to enhance the pattern recognition process. Efficient algorithms such as the splitting-shooting methods and splitting-integrating methods have been developed and analysed in this book for the first time. Graphical examples are given and compared with existing algorithms. This book is of interest to researchers in the areas of pattern recognition, character recognition, image processing, computer vision, computer graphics and other related fields.

The symposium dealt with Gas Turbine Engine Combustion, Emissions and Alternative Fuels. Forty-six papers and a Keynote Address elucidated the role of the combustion process as a

crucial factor of engine performance and operability under various conditions including non-standard, new fuels and environmental effects of civil and military interest. There were 12 Sessions covering the following topics (some in 2 sessions): (1) Gas Turbines in Land, Sea and Air Applications; (2) Low-Emission Combustors; (3) Combustion Modelling; (4) Optical Measurements; (5) Emissions; (6) Combustor Design; (7) Ignition Processes; (8) Active Combustion Control; and (9) Alternative Fuels.

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