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## INTRODUCTION

The present edition belongs to a more general line of books published by Formatex (Badajoz, Spain), aimed at communicating current scientific and technological research in a generalistic-didactic way, in diverse areas. In this number, it aims at stimulating the presentation, exchange and dissemination of information and experiences on the applications of technology in educational settings. Articles dealing with the following topics were called for:

### **General Aspects and Assessment of ICT use in Education**

Education and Globalization. Ethical and Societal Aspects. IPR and Copyright Issues. Organizational, Legal and Financial Issues. Gender and Diversity Issues in ICT Education. Assessment of ICT use in Education. Cultural Attitudes and Technology Acceptance. Breaking the Digital Divide and Social Integration. Technology Literacy and Assessment. e-assessment. Lifelong Learning. Quality Assessment. Future prospects in ICT Education...

### **Pedagogical Strategies in ICT Education**

Application and Assessment of Teaching/Learning Strategies. Tutoring and Coaching. Transferable Skills. Pedagogy and Instructional Design. Differentiated Instruction. Effective Teaching Practices. Innovative Teaching Practices Using Technology. Problem Solving and Critical Thinking. Instructional Strategies and Classroom Management. Curricula...

### **Methods and Environments for Education and Training**

Collaborative Learning. Community Building. Blended Learning. Distance Education. E-learning. Mobile Learning. Home Schooling. Virtual Schools and Universities. Emerging Learning Environments...

### **Educational Software/Webs Experiences**

Best Practices and Case Studies with Educational Software/Webs. Language Learning Innovations. Digital Storytelling. Serious Games. Education for Students with Special Requirements. User-generated Contents. Educational Experiences Using Open Source Software...

### **Technologies in the Service of Education**

Virtual Learning Environments (VLEs). Managed Learning Environments (MLEs). Learning Management Systems (LMS). Computer-Mediated Communication (CMC) Tools. Intelligent Tutoring Systems (ITS). Courseware Development. Authoring Tools. Virtual Laboratories. Learning Objects. Ontology-based Learning Resource Repositories. XML Schemas and the Semantic Web. Web Development and Applications. Multimedia/Hypermedia. Emerging/Innovative Technologies. Advanced Distributed Learning (ADL) Technologies. Architecture of Educational Information Systems Infrastructure. Emerging Standards, Microformats. Computer Networking, Systems and Related Issues. Security and Data Protection. Support and Maintenance. New User Interfaces and Adaptive Technologies. Human-Computer Interaction. Artificial Intelligence. Educational Robotics. Virtual Reality. Mobile/Wireless Technologies. Digital Libraries...

### **Development and Application of Web 2.0 Technologies for Educational Purposes**

### **Software Content Creation and Teaching and Learning Strategies in Science and Engineering**

### **e-Portfolios**

### **Medical e-Learning**

We hope that you will find the articles included in this edition interesting and stimulating, and look forward to receiving new proposals for future editions,

A. Méndez-Vilas, Editor