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| Nota di contenuto | Keynote -- Learning How to Dance Using a Web 3D Platform -- Personalized E-Learning -- Starting Directions for Personalized E-Learning -- PLANT: A Distributed Architecture for Personalized E-Learning -- PeRES: A Personalized Recommendation Education System Based on Multi-agents & SCORM -- Personalising Learning through Prerequisite Structures Derived from Concept Maps -- A Pedagogy-Driven Personalization Framework to Support Automatic Construction of Adaptive Learning Experiences -- Learning Resource Organization and Management -- Authoring Learning Objects for Web-Based Intelligent Tutoring Systems -- The ELEKTRA Ontology Model: A Learner-Centered Approach to Resource Description -- Towards Fuzzy Domain Ontology Based Concept Map Generation for E-Learning -- Knowledge Element Extraction for Knowledge-Based Learning Resources Organization -- A Context-Based Framework and Method for Learning Object Description and Search -- Knowledge Point Based Curriculum Developing and Learning Object Reusing -- An Informatic Model for Open Contents Management -- On Line Course Organization -- Framework and Standards for E-Learning -- Learning as a Service: A Web-Based Learning Framework for Communities of Professionals on the Web 2.0 -- Addressing Context-Awareness and Standards |

Interoperability in E-Learning: A Service-Oriented Framework Based on IRS III -- Extending CORDRA for Systematic Reuse -- Adaptivity in a SCORM Compliant Adaptive Educational Hypermedia System -- Synergistic Learning for Knowledge Age: Theoretical Model, Enabling Technology and Analytical Framework -- A New Layering Architecture of E-Learning System -- Transformational Techniques for Model-Driven Authoring of Learning Designs -- Test Authoring, Question Generation and Assessment -- Automatic Question Generation for Learning Evaluation in Medicine -- A Cloze Test Authoring System and Its Automation -- A Web-Based E-Testing System Supporting Test Quality Improvement -- A Novel Architecture for E-Learning Knowledge Assessment Systems -- Language Learning -- An Assessment Tool for Judging the Overall Appearance of Chinese Handwriting Based on Opinions from Occupational Therapists -- WILLIE – A Web Interface for a Language Learning and Instruction Environment -- E-Learning and Deaf Children: A Logic-Based Web Tool -- A Virtual Chinese Hairy Brush Model for E-Learning -- Science Education -- Exploratory Learning for Computer Networking -- Application of an Online Judge & Contester System in Academic Tuition -- Assessing the Learners' Motivation in the E-Learning Environments for Programming Education -- Using Constraint-Based Modelling to Describe the Solution Space of Ill-defined Problems in Logic Programming -- A Web Application for Mathematics Education -- An Improved Platform for Medical E-Learning -- Visualization Technologies for Content Delivery and Learning Behavior -- A 3D Geometry Search Engine in Support of Learning -- A Piece-Wise Learning Approach to 3D Facial Animation -- Open Smart Classroom: Extensible and Scalable Smart Space Using Web Service Technology -- An Instructor's Guide to Design Web-Based Algorithm Animations -- Logging and Visualization of Learner Behaviour in Web-Based E-Testing -- Tracking and Visualisation of Student Use of Online Learning Materials in a Large Undergraduate Course -- Practice and Experience Sharing -- Web-Based Outcome-Based Teaching and Learning – An Experience Report -- Evaluating Asynchronous Message Boards to Support Cross-Cultural Communities of High School Students -- From Learning Objects to Educational Itineraries: Helping Teachers to Exploit Repositories -- Adult Distance Learning Using a Web-Based Learning Management System: Methodology and Results -- Language-Driven Development of Web-Based Learning Applications -- System Control Through the Internet and a Remote Access Laboratory Implementation -- Security, Privacy and Mobile E-Learning -- Secure and Efficient Information Sharing in Multi-university E-Learning Environments -- Protecting Disseminative Information in E-Learning -- Mobile Learning Support with Statistical Inference-Based Cache Management -- Blended Learning -- Design and Implementation of an Automated System for Assessment of Computer Programming Assignments -- Web-Based Logging of Classroom Teaching Activities for Blended Learning -- Blended Teaching and Learning of Computer Programming -- Discovery of Educational Objective on E-Learning Resource: A Competency Approach -- Structured Blended Learning Implementation for an Open Learning Environment -- The Marriage of Rousseau and Blended Learning: An Investigation of 3 Higher Educational Institutions' Praxis.

Sommario/riassunto

This year, we received a record high of about 180 submissions to ICWL 2007. From these, a total of 55 full papers plus one keynote paper were accepted for this LNCS proceedings volume, representing an acceptance rate of about 30%. The authors of these accepted papers were of a remarkable international diversity. We would like to thank all the reviewers for spending their precious time reviewing the papers and

for providing valuable comments that aided significantly in the paper selection process. Authors of the best papers presented at this conference will be invited to submit extended versions of their papers for possible publication in 1) a special issue of IEEE Trans. on Knowledge and Data Engineering, for those papers relevant to knowledge and data engineering; and 2) a special issue of the International Journal of Distance Education Technologies (JDET), for papers of other areas. This was the first time that the ICWL conference was organized in Europe and 27 papers were from European researchers. We would like to thank our Organization Chair Dr. Taku Komura for spending an enormous amount of energy in coordinating the local arrangements. In fact, we would like to thank the entire conference organization committee for their hard work in putting together the conference. In particular, we would like to express our appreciation to our Registration Chair Dr.
