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Nota di contenuto	Keynote Speech -- Directions for Web-Based Learning -- Session 1: Personalization in E-Learning -- Courseware Recommendation in E-Learning System -- A Model for Personalized Course Material Generation Based on Student Learning Abilities and Interests -- Taking Blog as a Platform of Learning Reflective Journal -- Intelligent Knowledge Recommendation System Based on Web Log and Cache Data -- Learning Patterns: A Mechanism for the Personalization of Adaptive E-Learning -- Using a User-Interactive QA System to Capture Student's Interest and Authority About Course Content -- Session 2: Designs, Model and Framework of E-Learning Systems -- Designing Learning Styles Application of E-Learning System Using Learning Objects -- A Semantics Based Information Distribution Framework for Large Web-Based Course Forum System -- An Efficient Illumination Framework for Web-Based Lighting Engineering Education -- The Database Model and the System Architecture of a National Learning Objects Repository for

Cyprus -- Collaboratively Shared Information Retrieval Model for e-Learning -- Session 3: Implementation and Evaluations of E-Learning Systems -- : A Reusable Assessment Engine -- Using VRML and JAVA to Build Virtual Game-Based Learning Environment for Addition and Subtraction Operation -- An Easy-to-Use eLearning Web Authoring System for Educators -- An Implementation of a Case-Based Learning System -- A Web-Based Chinese Handwriting Education System with Automatic Feedback and Analysis -- Session 4: Learning Resource Deployment Organization and Management -- Endowing LOs with a Social Dimension -- Reusability on Learning Object Repository -- INFERS: An Infrastructure for Experience Record in Smart Spaces -- Decreasing the Stratification Influence to Students' Learning Communities by Asynchronous Learning -- e-Learning Martial Arts -- Session 5: Tools in E-Learning -- Web-Based Learning with Non-linear Multimedia Stories -- IDSVL: Intrusion Detection System Virtual Lab Based on Component in the Internet -- Process Control Model in Web-Based e-Learning -- Automatic Audio Indexing and Audio Playback Speed Control as Tools for Language Learning -- Session 6: Surveys and Invited Papers -- A Survey on Using IT in Administration and Management in Hong Kong Primary Schools -- Facial Expression Hallucination Through Eigen-Associative Learning -- Live Multimedia System Using Peer-to-Peer Architecture for Distance Education -- A Service-Based Framework for Personalized Learning Objects Retrieval and Recommendation -- Internet-Enabled Tangible User Interfaces for Distance Learning -- The Realization and Evaluation of a Web-Based E-Pedagogy Approach for English Second Language (ESL) Learning in Elementary Schools.

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#### Sommario/riassunto

Web-based learning has attracted ongoing attention for its rapid development in recent years. It introduces not just global and distributed, but virtual learning environments to the students. To the educators, it creates a lot of opportunities, and at the same time challenges. Special learning tools/systems, learning resource management, and personalized learning materials, etc. , are the hot research topics at present. After four successful previous annual conferences, ICWL 2002 in Hong Kong, ICWL 2003 in Australia, ICWL 2004 in China, and ICWL 2005 in Hong Kong, the Fifth International Conference on Web-Based Learning (ICWL 2006) was held in Penang, Malaysia during July 19-21, 2006. ICWL 2006 was a continued attempt to address many of the above-mentioned issues. The conference program was organized in a single-track 3-day workshop. It included a tutorial, a keynote talk, and oral/poster paper presentations in several sessions dedicated to specific topics. Session topics included "Personalization in E-Learning," "Designs, Model and Framework of E-Learning Systems," "Implementations and Evaluations of E-Learning Systems," "Tools in E-Learning," and "Learning Resource Deployment, Organization and Management. " We received a total of 99 submissions from all over the world. The Program Committee selected 34 papers as regular papers for presentation, an acceptance rate of about 34. 3%. Due to the high-quality submissions, the committee decided to further invite nine papers for poster presentations. Finally, 32 papers (including the keynote speech) were selected for this post-conference proceedings.

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