Proceedings of the 2015 IEEE Seventh International Conference on Technology for Education

A Strategic Approach for Determining Students Specialization .................................................................1
Parkavi A. and N. Vetrivelan

A Virtual Laboratory Package to Support Teaching of Logic Design and Computer Organization .................................................................3
Gargi Roy, Devleena Ghosh, and Chittaranjan Mandal

Adaptive and Gamified Learning Environment (AGLE) ..............................................................................7
Vandana Naik and Venkatesh Kamat

Aiding Teaching of Logic Design and Computer Organization through Dynamic Problem Generation and Automatic Checker Using COLDVL Tool .................................................................15
Gargi Roy, Devleena Ghosh, Chittaranjan Mandal, and Indraneel Mitra

An E-Learning System with Multifacial Emotion Recognition Using Supervised Machine Learning ........................................................................23
Ashwin T S, Jijo Jose, Raghu G, and G Ram Mohana Reddy

An ICT-Based System to Improve the Learning Experience in a Large Classroom ............................................27
Nikumani Choudhury, Venkatesh Tamarapalli, and Samit Bhattacharya

Analytics Using Activity Trackers in the Field of Education .......................................................................31
Ankit Sharma, Udita Prajapati, Vivekanandan Kumar, and Kinshuk

Determining Equivalence of Expressions: An Automated Evaluator’s Perspective ......................................35
K K Sharma, Kunal Banerjee, and Chittaranjan Mandal

E-Learning Systems: A Review ....................................................................................................................37
Samir R. Thakkar and Hiren D. Joshi
Effectiveness of Mobile Learning at TCE, India: A Learner Perspective ..........................................................41
   Karthikeyan P., Uma K. V., and Pudumalar S.

Enabling Micro-Notes in Moodle for Educational Videos .................................................................43
   Rajesh K., Rakesh Goudar, and Viraj Kumar

Enhancing Digital Educational Repositories by Linking Videos and Examinations ..........................45
   Kaushal Mohan, Anoop R. Desai, Ashish M. P., and Viraj Kumar

Fe.g.: An Animated Flowchart with Example to Teach the Algorithm Based Courses in Engineering .................................................................49
   Sunita Milind Dol

From Novice to Expert Instructional Designer: A Training Based on Cognitive Apprenticeship Model ...............................................................53
   Vasanta Akondy and Sahana Murthy

GA Tutor: A Guided Discovery Based Tutor for Designing Greedy Algorithm ................................61
   Kavya Alse, Mukund Lahoti, Meenakshi Verma, and Sridhar Iyer

Generation of Educational Technology Research Problems Using Design Thinking Framework .................................................................69
   Abhinav Anand, Shitanshu Mishra, Anurag Deep, and Kavya Alse

Generation of Quizzes and Solutions Based on Ontologies — A Case for a Music Problem Generator ...............................................................73
   Aditi Mavalankar, Tejaswinee Kelkar, and Venkatesh Choppella

Improved Mathematics Learning by Modular Technology in Technical Education ..........................77
   G. Vasanti and V. Vinod Kumar

Learning Analytics for Course Management in Computer Science Curriculum — A Novel Visualization and Summarization Approach .................................................................81
   Sirisha Velampalli

Learning Analytics Solution for Reducing Learners’ Course Failure Rate ..........................................83
   Kannan Govindarajan, Vivekanandan Suresh Kumar, David Boulanger, and Kinshuk

Mobile Learning: A Pedagogical Framework to Facilitate Distributed Learning through Collaborative Approach for Enhancing English Language Communication Skills .................................................................91
   Baishali Mitra, Sandhya Kode, and Aravind Cheruvu

Perceived Challenge in E-Learning and Its Causes .................................................................95
   Adit Ravi, Jayanti Ravi, Haresh Jani, Mangala Sunder Krishnan, and Tushar Patel

Prototype of a Web Based Tool for Higher Education Guidance .................................................101
   Aswathy C, Renumol V G, and Smrithy G S

Role of Technology in Fostering Socio Cognitive Skills in the Context of Teaching ESL .................................................................103
   Madhavi Kesari
Secure, Offline Feedback to Convey Instructor Intent ................................................................. 105

Adithi G. S., Akshay Adiga, Pavithra K., Prajwal P. Vasisht, and Viraj Kumar

Technology Enabled Learning (TEL) to Improve Pronunciation in the Students
of Professional Courses — A Study ........................................................................................................ 109

Madhavi Kesari and I. Ajit Kumar Reddy

Use of Technology for Improving Math and Science Skills of Children of Classes
Primary and Upper-Primary .................................................................................................................... 111

Kaumudi Nagaraju and Samir Jain

Utilizing Social Networks and Web 2.0 Technologies in Education .................................................. 118

Isidoros Perikos, Foteini Grivokostopoulou, Konstantinos Kova,
and Ioannis Hatzilygeroudis

Author Index ........................................................................................................................................ 120