

# **First International Workshop on Pen-Based Learning Technology**

## **(PLT 2007)**

**Catania, Italy  
24-25 May 2007**



**IEEE Catalog Number: CFP07PLT-PRT  
ISBN: 978-1-4244-3155-7**

## TABLE OF CONTENTS

<b>Children Using Digital Ink for Writing.....</b>	1
<i>J.C. Read</i>	
<b>Dynamic Homework Annotation .....</b>	6
<i>B.C. Dean</i>	
<b>Earth and Environmental Sciences: Field Classes with GIS/GPS and Tablet PC .....</b>	11
<i>M.D. Donatis</i>	
<b>Enhancing Pen-Based Experiences with the Use of Concept Maps .....</b>	17
<i>A.M. Florea, S. Radu</i>	
<b>Graphics Annotation Usability in eLearning Applications .....</b>	23
<i>D. Gorgan, T. Stefanut</i>	
<b>OrganicPad: A Tablet PC Based Interactivity Tool for Organic Chemistry.....</b>	29
<i>R. Pargas, M. Cooper, C. Williams, S. Bryfczynski</i>	
<b>Paper Architecture and an Exam Scoring Application .....</b>	35
<i>M. Nakagawa, N. Lozano, H. Oda</i>	
<b>Pen-based Knowledge Transfer Techniques to Support Lifelong Learning In Large Scale Organizations .....</b>	41
<i>S. Shaw, G. Kattenberg</i>	
<b>Pen Based Tools for Sudoku Solving - A Case for Representational Flexibility?.....</b>	47
<i>M. Hieronymi, A. Wichmann, M. Kuhn, H.U. Hoppe</i>	
<b>Characteristics of Pedagogical Models in the Mobile Teaching—Studying—Learning (TSL) Environments: Preliminary Findings of the I-Trace Project .....</b>	53
<i>S. Vahtivuori-Hänninen, T. Karaharju-Suvanto</i>	
<b>Positive Impact of a Tablet PC-Based Learning Environment on Student-Perceived Learning Outcomes.....</b>	59
<i>S. Millinder</i>	
<b>Properties of Real-World Digital Logic Diagrams .....</b>	65
<i>C. Alvarado, M. Lazzareschi</i>	
<b>Seeing Clearly Through Ink in Computer Science Courses .....</b>	71
<i>R.P. Pargas</i>	
<b>Supporting Pen-Based Classroom Interaction: New Findings and Functionality for Classroom Learning Partner.....</b>	77
<i>K. Koile, K. Chevalier, C. Low, S. Pal, A. Rogal, D. Singer, J. Sorensen, K. Seng Tay, K. Wu</i>	
<b>The Conversational Organisation of Drawing.....</b>	84
<i>P.G.T. Healey, C.R. Peters</i>	
<b>A Prototype Body Orientation Based Drawing System .....</b>	90
<i>N. Swoboda, P.G.T. Healey, G. Berrocal Noguerales</i>	
<b>A Recognizer for Free-Hand Graph Drawings.....</b>	93
<i>H. Dibeklioglu, T. Metin Sezgin, E. Ozcan</i>	
<b>A Simple, Usable and Robust Solution for Pen-based Interaction on Projection Displays .....</b>	96
<i>G. Iannizzotto, F. La Rosa</i>	
<b>Interactive Whiteboards in the Classroom: A Primary Teacher's Perspective.....</b>	99
<i>D. McCormick</i>	

<b>On the Use of Tablet-PC for Personal Learning in a Wireless Campus Environment .....</b>	103
<i>S. Giordano, G. Procissi, S. Lucetti</i>	
<b>Overview of an Industry/Academia Partnership for Furthering the Advancement of Pen-based Technology in Research and Education .....</b>	106
<i>P. Oka, J. Prey</i>	
<b>PC-TABLETS : The Next Dimension.....</b>	110
<i>R. Mitchell</i>	
<b>Pen-tablet Support for Better Learning Conversations.....</b>	114
<i>G.M. Boyd</i>	
<b>Pen-Centric Shorthand Handwriting Recognition Interfaces.....</b>	116
<i>C.C. Tappert, J.R. Ward</i>	
<b>Tablet PC-Enabled Active Learning in Mathematics: A First Study.....</b>	117
<i>M. Reba, B. Weaver</i>	
<b>Pen-Based Computing in Distance Education- The Pharmaceutical Science Programme in Sweden .....</b>	123
<i>M. Sjoberg, S. Mattsson, A. Tengvall, M. Burman</i>	
<b>Web-Trace and the Learning of Visual Discrimination Skills .....</b>	126
<i>D. Giordano, R. Leonardi</i>	
<b>Integrating Digital Ink and Paper in a Learning Content Management System for Rapid Learner Assessemnt .....</b>	132
<i>D. Giordano, F. Maiorana, L. Marco Vaccalluzzo</i>	
<b>Pen-Based Tools for the Creation of Handwritten Learning Content.....</b>	138
<i>G. Chiazzese, L. Seta</i>	
<b>Hands-On Workshop: Tablet PCs in Higher Education and Research .....</b>	142
<i>J.G. Tront, J. Chu Prey</i>	
<b>Author Index</b>	