



TUESDAY 21 AUGUST 2012

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|---|--|---|--|---|---|---|--|---|--|
| 13:30-14:30 | | | | | Welcome | | | | |
| 14:30-16:00 Plenary Session | | | | | AEGEAN | | | | |
| | | | | | CAFÉ PHILO AT CONSTRUCTIONISM 2012 Clayson J. & Noss R. | | | | |
| | | | | | CONSTRUCTIONISM AND THE CONFIRMATION OF A RELUCTANT CONSTRUCTIVIST OR WHY, IN AMERICAN MATHEMATICS EDUCATION, TALK OF CONSTRUCTIVISM IS "OUT," TALK OF CONSTRUCTIONISM NEVER REALLY HAPPENED, AND IT MIGHT NOT REALLY MATTER ANYWAY Goldenberg, E. P. | | | | |
| 16:00-16:30 | | | | | Coffee | | | | |
| | | AEGEAN | | CORFU I | | CORFU II | | SYROS | |
| | | THEME: CONSTRUCTIONIST CLASSROOM EXPERIENCES | | THEME: CONSTRUCTIONIST TECHNOLOGIES | | THEME: LEARNING PROCESSES AND CONCEPTS | | THEME: INFORMAL EDUCATION (COLLECTIVES AND SOCIAL NETWORKING) | |
| 16:30-18:00 Research Reports / Best Practice Reports | | A TURTLE'S GENETIC PATH TO OBJECT ORIENTED PROGRAMMING Oldenburg R., Rabel M., Schuster J. | | THREE-MINUTE CONSTRUCTIONIST EXPERIENCES Kahn K., Noble H., Hjorth A., Sampaio F. F. | | THE TECHNICALITY THESIS: A CONSTRUCTIONIST PROPOSITION O' Duill M. | | EDUCATIONAL ONLINE SOCIAL NETWORKING IN TERTIARY EDUCATION - A TEACHING INTERVENTION Glezou K. | |
| | | METAFORA AND THE FOSTERING OF COLLABORATIVE MATHEMATICAL PROBLEM SOLVING Abdu R., Schwarz B. | | MULTIMAP: A COMPUTATIONAL ENVIRONMENT FOR SUPPORTING MATHEMATICAL INVESTIGATIONS Feurzeig W., Horwitz P. | | TOWARDS TURING TEACHING O' Duill M. | | CULTIVATING CONSTRUCTIVE MINDSET IN WORLD MUSEUM - COLLABORATION ACROSS CULTURES AND GENERATIONS Miyata Y., Ueshiba T., Harada Y. | |
| | | IS THIS CONSTRUCTIONISM? YOUNG CHILDREN, MATHEMATICS AND POWERFUL IDEAS? Papademetri-Kachrimani C. | | CONSTRUCTIONIST LEARNING OF GEOMETRY Dagiene V., Jasute E. | | MAKE TO THINK: IDEAS, PROCESSES AND TOOLS Urrea C., Badilla-Saxe E., Miranda – Garnier X, Barrantes - Acuna D. | | REDEFINING CONSTRUCTIONIST VIDEO GAMES: MARRYING CONSTRUCTIONISM AND VIDEO GAME DESIGN Weintrop D., Holbert N., Wilensky U., Horn M. | |
| | | <i>Chair:</i> | | <i>Chair:</i> | | <i>Chair:</i> | | <i>Chair:</i> | |
| | | | | | AEGEAN | | | | |
| 18:30-20:00 Panel/debate | | | | | HOW DO WE KNOW IT WHEN WE SEE IT? <i>Leader:</i> Goldenberg E. P. | | | | |



WEDNESDAY 22 AUGUST 2012

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| AEGEAN | | | | |
| 09:30-11:00 Plenary Session | CONSTRUCTIONISM: CHANGES IN TECHNOLOGY, CHANGES IN PURPOSE Eisenberg M. | | | |
| | THE BEAUTY AND JOY OF COMPUTING: COMPUTER SCIENCE FOR EVERYONE Harvey B. | | | |
| 11:00-11:30 Coffee | | | | |
| 11:30-13:00 Research Reports / Best Practice Reports | AEGEAN | CORFU I | CORFU II | SYROS |
| | THEME: CONSTRUCTIONIST CLASSROOM EXPERIENCES | THEME: INFORMAL EDUCATION (COLLECTIVES AND SOCIAL NETWORKING) | THEME: LEARNING PROCESSES AND CONCEPTS | THEME: CONSTRUCTIONISM AND THE CURRICULUM |
| | BIFOCAL BIOLOGY: THE LINK BETWEEN VIRTUAL AND REAL EXPERIMENTS Fuhrmann T., Greene D., Salehi S., Blikstein P. CHILDREN'S REASONING ABOUT SAMPLES AND SAMPLING IN A PROJECT-BASED LEARNING ENVIRONMENT Paparistodemou E., Meletiou – Mavrotheris M. GREEK SALAD INSTEAD OF SPINACH OR PLAYFUL INFORMATICS Farkas K., Csink L. <i>Chair:</i> | EXPLORING THE CONE THROUGH A HALF-BAKED MICROWORLD Kouletsis E. LOGO-BASED ACTIVITIES FOR LEARNING COUNTING FOR CHILDREN WITH DOWN SYNDROME Bonilla J., Sacristan A. I. INTERACTIVE BOARD GAMES IN CLASSROOM Skiadelli M. <i>Chair:</i> | TINKERING CREATIVELY WITH SUSTAINABILITY Daskolia M., Kynigos C. LITERAMOVIE-CREATIVITY IN A MULTILINGUAL AND MULTIMEDIA E-EDITION OF CLASSIC TEXTS Tzoumerkas J., Petropoulou V. DESIGNING TOOLS FOR CREATIVE LEARNING Portocarrero E. <i>Chair:</i> | SCIENCE, EDUCATION AND TECHNOLOGY: ROBOTICS IN THE CURRICULUM AT SCHOOLS IN BRAZIL Campos F. CREATING MOTION MODELS BY MANIPULATING PARAMETERS THAT CORRESPOND TO SCIENTIFIC CONVENTIONS Smyrnaïou Z., Moustaki F. SOCIAL INTERACTIONS AMONG MODELERS Lerner R. M., Levy S. T., Wilensky U. <i>Chair:</i> |
| | 13:00-13:30 Lunch | | | |
| AEGEAN | | | | |
| Posters will be displayed until the end of the Conference. Authors will present their work during this Session. | | | | |
| 13:30-14:30 Poster / Demo Session | AEGEAN | CORFU I | CORFU II | SYROS |
| | ROBOBUILDER: A PROGRAM-TO-PLAY CONSTRUCTIONIST VIDEO GAME Weintrop D., Wilensky U. ACTING LIKE A TURTLE: A NETLOGO KINECT EXTENSION Hjorth A., Wilensky U. | USING VIRTUAL GLOBES AND G.I.S. IN DIGITAL GEOGRAPHY TEXTBOOKS Athanasiadis C., Antoniou A., Salonikidis I., Klonari A. TEACHER ASSISTANCE TOOLS FOR THE CONSTRUCTIONIST CLASSROOM Geraniou E., Mavrikis M., Gutierrez-Santos S., Poulouvassilis A. | EVOLUTION IN BLOCKS: BUILDING MODELS OF EVOLUTION USING BLOCKS Wagh A., Wilensky U. MODELING COMMONS Lerner R. M., Levy S. T., Wilensky U. | SUPERSONICMAN - AN INFORMATICS X PHYSICS PROJECT Benacka J. DIALOGS WITH PROMETHEUS: INTELLIGENT SUPPORT FOR TEACHING MATHEMATICS Rojano T., Abreu J.L. |



WEDNESDAY 22 AUGUST 2012

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| | AEGEAN | CORFU I | CORFU II | SYROS |
| 14:30-16:00 Research Reports / Best Practice Reports | <p>THEME: CONSTRUCTIONIST CLASSROOM EXPERIENCES</p> <p>CHILDREN LEARNING ABOUT "URBAN SUSTAINABILITY" THROUGH PLAYING AND RE-CONSTRUCTING A HALF-BAKED MICROWORLD Liarakou G., Daskolia M., Papanikolaou A.</p> <p>DESIGN AND LEARNING (D&L) IN THE KINDERGARTEN Mioduser D., Kuperman A., Levy S. T.</p> <p>GESTURES AS A TOOL OF SEMIOTIC MEDIATION IN A 3D TURTLE GEOMETRY ENVIRONMENT Latsi M., Kynigos C.</p> <p><i>Chair:</i></p> | <p>THEME: INFORMAL EDUCATION (COLLECTIVES AND SOCIAL NETWORKING)</p> <p>OF PARTICLES AND BIKERS: JUNIOR TRIATHLETES INVENT DRAFTING TACTICS WITH AGENT-BASED MODELS Levy S. T., Hirsh A.</p> <p>COMPUTER AS CHALK: SUPPORTING YOUTH AS DESIGNERS OF TANGIBLE USER INTERFACES Millner A.</p> <p>MY INTERACTIVE GARDEN: A CONSTRUCTIONIST APPROACH TO CREATIVE LEARNING WITH INTERACTIVE INSTALLATIONS IN COMPUTING EDUCATION Przybylla M., Romeike R.</p> <p><i>Chair:</i></p> | <p>THEME: CONSTRUCTIONIST TECHNOLOGIES</p> <p>AN ONLINE SETTING FOR EXPLORING, CONSTRUCTING, SHARING AND LEARNING MATHEMATICAL IDEAS Olivera M. A., Sacristan A. I.</p> <p>REPRESENTATIONAL SYSTEMS ON 3D NAVIGATION PROCESS Markopoulos C., Alexopoulou E.</p> <p>CONSTRUCTIONIST DISCUSSIONS WITH AND AROUND MICROWORLD OBJECTS Mavrikis M., Kahn K., Dragon T.</p> <p><i>Chair:</i></p> | <p>THEME: CONSTRUCTIONISM IN TEACHER EDUCATION PROGRAMS</p> <p>DESIGNING AND MODIFYING ARTIFACTS THROUGH ACTUAL IMPLEMENTATION IN MATHEMATICS CLASSROOM Kalogeria E., Psycharis G., Ardavani K.</p> <p>PREPARING TEACHERS TO USE LAPTOPS INTEGRATED TO CURRICULUM ACTIVITIES: THE EXPERIENCE OF ONE LAPTOP PER STUDENT PROJECT AT UNICAMP Valente J. A., Martins M. C.</p> <p>TRAINING MIXED GROUPS OF TEACHERS' AND STUDENTS' IN EDUCATIONAL ROBOTICS USING THE STUDIO PEDAGOGICAL MODEL Fessakis G., Kladogenis D., Markouzis D.</p> <p><i>Chair:</i></p> |
| | 16:00-16:30 | Coffee | | |
| 16:30-18:00 Workshop Session | CORFU I | | SYROS | |
| | <p>EXPLORE THE NEXT GENERATION OF SCRATCH Resnick M.</p> | | <p>3D MATH: CREATING AND DYNAMICALLY MANIPULATING 3D GEOMETRICAL FIGURES Psycharis G., Latsi M., Moustaki F., Zantzou I.</p> | |
| 18:30-20:00 Workshop Session | CORFU I | | CORFU II | SYROS |
| | <p>3D IN EXCEL Benacka J.</p> | | <p>CONSTRUCTING MICROWORLDS WITH E-SLATE Kynigos C., Yiannoutsou N, Moustaki F., Xenos M., Anastopoulou M.</p> | <p>KNOWLEDGE CONSTRUCTION IN THE BEBRAS PROBLEM SOLVING CONTEST Dagiene V., Futschek, G.</p> |



| THURSDAY 23 AUGUST 2012 | | | | |
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| 09:30-11:00 Plenary Session | AEGEAN | | | |
| | <p>CONSTRUCTIONISM AND THE NEW LEARNING ANALYTICS Sherin B.</p> <p>NICHES FOR CONSTRUCTIONISM: FORGING CONNECTIONS FOR PRACTICE AND THEORY Kynigos C.</p> | | | |
| 11:00-11:30 | Coffee | | | |
| 11:30-13:00 Research Reports / Best Practice Reports | AEGEAN | CORFU I | CORFU II | SYROS |
| | <p>THEME: CONSTRUCTIONIST CLASSROOM EXPERIENCES</p> <p>THE CONTINUING STORY OF THE PAINLESS TRIGONOMETRY PROJECTS: ERATOSTHENES? METHOD AND THE PARTHENON Sacristan A. I., Jimenez-Molotla J.</p> <p>DIFFERENTIAL APPROXIMATION OF A CYLINDRICAL HELIX BY SECONDARY SCHOOL STUDENTS Zantzou I., Kynigos C.</p> <p>THE NECESSITY OF THE TANGENT Spathis M., Kouletsis E.</p> <p><i>Chair:</i></p> | <p>THEME: CONSTRUCTIONIST TECHNOLOGIES</p> <p>MEANINGS FOR 3D MATHEMATICS SHAPED BY ON-LINE GROUP DISCUSSIONS Moustaki F., Kynigos C.</p> <p>CONSTRUCTION AND DESIGN ACTIVITIES THROUGH LOGO BASED 3D MICROWORLD Cho H. H., Lee J. Y., Song M. H.</p> <p>REPRESENTATIONAL CONGRUENCE: CONNECTING VIDEO GAME EXPERIENCES TO THE DESIGN AND USE OF FORMAL REPRESENTATIONS Holbert N., Wilensky U.</p> <p><i>Chair:</i></p> | <p>THEME: LEARNING PROCESSES AND CONCEPTS</p> <p>DRAMA IN EDUCATION AND CONSTRUCTIONISM Simou P.</p> <p>DESIGN COMPASS: FACILITATING METACOGNITION IN CONSTRUCTION ACTIVITIES IN K-16 CLASSROOMS Danahy E., Hynes M, Ronen A.</p> <p>LEARNING HOW TO LEARN WITH MICROWORLDS: EVALUATION AND HELP SEEKING Yiannoutsou N., Mavrikis M.</p> <p><i>Chair:</i></p> | <p>THEME: EDUCATIONAL ROBOTICS</p> <p>THE SYMBIOSIS OF DESIGN AND INQUIRY-BASED LEARNING IN CREATING ROBOTIC MODELS OF BIOLOGICAL SYSTEMS Verner I., Cuperman D.</p> <p>HOW TO ENHANCE THE ROBOTIC EXPERIENCE WITH SCRATCH Arlegui J., Moro M., Pina A.</p> <p>EDUCATIONAL ROBOTICS IN ONE LAPTOP PER STUDENT - UCA PROJECT d'Abreu J. V. V., Bastos L. B., Giachetto G. F. A. O.</p> <p><i>Chair:</i></p> |
| 13:30-20:00 Conference Excursion | Half-day trip to Cape Sounio plus beach & taverna | | | |



| FRIDAY 24 AUGUST 2012 | | | | |
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| 09:30-11:00 Plenary Session | AEGEAN | | | |
| | <p>PROGRAMMING FOR THE NATIVES: WHAT IS IT? WHAT'S IN IT FOR THE KIDS? Ackermann E.</p> <p>MOTHER'S DAY, WARRIOR CATS, AND DIGITAL FLUENCY: STORIES FROM THE SCRATCH ONLINE COMMUNITY Resnick M.</p> | | | |
| 11:00-11:30 | Coffee | | | |
| 11:30-13:00 Research Reports / Best Practice Reports | AEGEAN | CORFU I | CORFU II | SYROS |
| | <p>THEME: CONSTRUCTIONIST CLASSROOM EXPERIENCES</p> <p>NETWORKING CONSTRUCTIONISM AND SOCIAL SEMIOTICS IN ORDER TO INVESTIGATE STUDENTS' BODILY ENGAGEMENT WITH TASKS IN THREE-DIMENSIONAL SPACE Psycharis G., Morgan C.</p> <p>GROWING UNDER PRESSURE: A THAI SCHOOL LEARNING HOW TO PROSPER WHILE BEING DIFFERENT Isarasena P., Tutiya-phuengprasert N., Sipitakiat A.,</p> <p>A FRAMEWORK FOR CHARACTERIZING CHANGES IN STUDENT IDENTITY DURING CONSTRUCTIONIST LEARNING ACTIVITIES Worsley M., Blikstein P.</p> <p><i>Chair:</i></p> | <p>THEME: CONSTRUCTIONISM AND THE CURRICULUM</p> <p>BUILDING THE SYSTEM OF DESIGNING OWN MATHEMATICS TEXTBOOK Kim H. K., Song M. H.</p> <p>BACK TO THE FUTURE: CAN WE REVERSE A QUARTER-CENTURY OF REGRESSION? O' Duill M.</p> <p>NICODEMUS EXPLORES EGYPTIAN FRACTIONS: A CASE STUDY Papadopoulos I.</p> <p><i>Chair:</i></p> | <p>THEME: CONSTRUCTIONISM IN TEACHER EDUCATION PROGRAMS</p> <p>A CONSTRUCTIONIST METHOD FOR TEACHING TEACHERS ABOUT BASIC PROPERTIES OF COMPLEX ADAPTIVE SYSTEMS, USING A NETLOGO MODEL Gkiolmas A., Chalkidis A., Karamanos K., Papaconstantinou M., Skordoulis C.</p> <p>TEACHING HOW TO TEACH HOW TO TEACH PROGRAMMUNG Dagdilelis V.</p> <p>CONSTRUCTIONISM IN THE OILFIELD Tempel M.</p> <p><i>Chair:</i></p> | <p>THEME: CONSTRUCTIONIST COMPETENCIES IN THE 21ST CENTURY</p> <p>TOWARD A DATA EXPRESSION TOOLKIT: IDENTIFYING THE ELEMENTS OF DYNAMIC REPRESENTATIONAL COMPETENCE IN YOUNG LEARNERS Wilkerson-Jerde M., Maldonis J.</p> <p>CONSTRUCTION KITS FOR TEACHERS: IMPLICATIONS FOR DESIGN Anastopoulou S., Daskolia M.</p> <p>FRIENDS OF PAPERTIAN CONSTRUCTIONISM Stager G.</p> <p><i>Chair:</i></p> |
| 13:00-13:30 | Lunch | | | |
| 13:30-14:30 Poster / Demo Session | AEGEAN | | | |
| | Posters will be displayed until the end of the Conference. Authors will present their work during this Session. | | | |



| | AEGEAN | CORFU I | CORFU II | SYROS |
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| | ROBOBUILDER: A PROGRAM-TO-PLAY CONSTRUCTIONIST VIDEO GAME Weintrop D., Wilensky U. ACTING LIKE A TURTLE: A NETLOGO KINECT EXTENSION Hjorth A., Wilensky U. | USING VIRTUAL GLOBES AND G.I.S. IN DIGITAL GEOGRAPHY TEXTBOOKS Athanasiadis C., Antoniou A., Salonikidis I., Klonari A. TEACHER ASSISTANCE TOOLS FOR THE CONSTRUCTIONIST CLASSROOM Geraniou E., Mavrikis M., Gutierrez-Santos S., Poulouvassilis A. | EVOLUTION IN BLOCKS: BUILDING MODELS OF EVOLUTION USING BLOCKS Wagh A., Wilensky U. MODELING COMMONS Lerner R. M., Levy S. T., Wilensky U. | SUPERSONICMAN - AN INFORMATICS X PHYSICS PROJECT Benacka J. DIALOGS WITH PROMETHEUS: INTELLIGENT SUPPORT FOR TEACHING MATHEMATICS Rojano T., Abreu J.L. |
| 14:30-16:00 | AEGEAN | | | |
| Panel/debate | SEGREGATION FOR EVER? <i>Leader:</i> Blikstein P. | | | |
| 16:00-16:30 | Coffee | | | |
| 16:30-18:00 | CORFU I | CORFU II | SYROS | |
| Workshop Session | THE SNAP! PROGRAMMING LANGUAGE Harvey B. | METAFORA SYSTEM: LEARNING TO LEARN TOGETHER DURING EXPLORATIONS WITH MICROWORLDS Yiannoutsou N., Moustaki F., Xenos M., Mavrikis M., Abdu R. | THE ROBOSCRATCH THEATRE: CONSTRUCTING KNOWLEDGE WITH LEGO MINDSTORMS AND SCRATCH THROUGH ARTISTIC ACTIVITIES Bratitsis T., Fachantidis N. | |
| 18:00-20:00 | Acropolis Museum & Conference dinner | | | |
| SATURDAY 25 AUGUST 2012 | | | | |
| 09:30-11:00 | AEGEAN | | | |
| Panel/debate | CHANGING THE SUBJECT <i>Leader:</i> Wilkerson-Jerde M. | | | |
| 11:00-11:30 | Coffee | | | |
| 01:30-13:00 | AEGEAN | | | |
| Panel/debate | CONSTRUCTIONISM AND POLICY <i>Leader:</i> Valente J. | | | |



| POSTERS | |
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| 1. | SCIENCE SIMULATION DEVELOPMENT WITH SCRATCH Glezou K. |
| 2. | USING MALT FOR RESTRUCTURING THE APPROACH OF CURVES IN SECONDARY EDUCATION Zantzou I. |
| 3. | REPRESENTATIONS OF STUDENTS' EXPERIENCE OF THEIR LOCAL ENVIRONMENT IN THEIR CONSTRUCTIONS OF DIGITAL GAMES Deveraki M., Xenos M., Daskolia M. |
| 4. | STUDENTS' COLLECTIVE CREATIVITY WHILE CO-CONSTRUCTING DIGITAL GAMES ON THE IDEA OF SUSTAINABLE CITY Tsouma E., Daskolia M. |
| 5. | USE OF AN EXPLORATORY SOFTWARE FOR TEACHING AND LEARNING ABOUT ENVIRONMENTAL ISSUES Gounari N., Daskolia M., Kynigos C., Flogaitis E. |
| 6. | SIMULATOR FOR LEARNING ROBOTICS TOPICS IN XBOX CONSOLES Ortiz - Moreno A., Pretelin - Ricardez A., Luviano - Juarez A. |
| 7. | THE PROGRAM "EDUCATION FOR ROMA CHILDREN". DESCRIPTION OF ITS ACTIONS AND PERSPECTIVES OF FURTHER DEVELOPMENT Parthenis C., Tseliou E. |
| 8. | MAPPING MODELLING-BASED LEARNING IN EARLY CHILDHOOD EDUCATION Papademetri-Kachrimani C., Louca L. |
| 9. | MAPPING PROBLEM-SOLVING IN EARLY CHILDHOOD EDUCATION THROUGH PROBLEMS INVOLVING CONSTRUCTION Shiakalli M. A., Papademetri C., Zacharos K. |
| 10. | COLLABORATIVE MEANING GENERATION PROCESSES WHILE INTERACTING WITH A 3D TURTLE GEOMETRY MICROWORLD Moustaki F., Economakou K., Diamantidis D., Kaitsofi A. |
| 11. | ARTIFICIAL INTELLIGENCE SUPPORTING COLLABORATIVE CONSTRUCTIONIST ACTIVITIES IN ENVIRONMENTAL EDUCATION Xenos M. |
| 12. | PLAYING GAMES ON-LINE AND AT THE SCHOOLYARD FOR GENERATING MEANINGS ON SCIENCE Smyrniou Z., Tsigaridis K., Varypati E., Evripidou R., Xantzaras T., Dimas J., Tsoutsou E. |
| 13. | USING THE "D-STAGE" KIT TO DEVELOP 2D SCIENCE MICROWORLDS Smyrniou Z., Moustaki F., Xenos M. |
| 14. | SUPPORTING STUDENTS' CONSTRUCTION OF PROGRAMMING MENTAL MODELS WITH E-BOOKS: THE CASE OF COMPUTER SCIENCE E-BOOK Tsakonas P., Petsos A., Toukiloglou P., Saridaki A., Christopoulou E., Paliouras A., Jimoyiannis A. |
| 15. | "NEIGHBORHOODS": ENGAGING STUDENTS INTO INQUIRING ABOUT THEIR LOCAL COMMUNITIES FROM A PLACE-BASED PERSPECTIVE Anastopoulou S., Daskolia M., Rozaki M. |
| 16. | CONSTRUCTIVISM EMBEDDED IN THE DIGITAL ACTIVITIES OF THE E-BOOKS OF RELIGION FOR SECONDARY EDUCATION Mitropoulou V., Argyropoulos N., Vasiliou V., Gikas A. et al. |
| 17. | KNOWLEDGE BUILDING ON LINE. A NEW WAY OF TRAINING FOR THE PRIMARY TEACHERS? Drechsler M. |
| 18. | SMART CITIES WORKSHOP Papanikolaou D. |
| 19. | USING SOCIAL BOOKMARKING SYSTEM TO ENHANCE THE ENVIRONMENTAL AND GEOGRAPHICAL LEARNING OF SECONDARY STUDENTS. A PRE-STUDY REVIEW Exarchou E., Klonari A. |