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Conference Time: 17/Mar/2014 5:45:35 am EET

Conference Agenda

Overview and details of the sessions of this conference. Please select a date or room to show only sessions at that day or location. Please select a single session for detailed view (with abstracts and downloads if available).

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Session Overview

Date: Wednesday, 02/Apr/2014

9:00am	Registration	
-		
3:00pm		
10:00am	Workshop 1	Workshop 2
-		
1:00pm	Workshop: Using Evaluation to Support Findings for Innovations in Engineering Education <u>Froyd, Jeffrey E</u> ; Lord, Susan M	Learn to Design Real Systems Fast with National Instruments myRIO Workshop <u>Unan, Ozlem</u>
1:00pm	Lunch Break	
-		
2:00pm		
2:00pm	Workshop 3	Workshop 4
-		
5:00pm	MATLAB® & Simulink® with Raspberry Pi® - A hands-on workshop on hardware support for project based learning <u>Tarchini, Alex</u>	Remote Experiment in Inquiry-Based Instruction <u>Dziabenko, Olga</u> ; Garsia-Zubia, Javier; Gillet, Denis

Date: Thursday, 03/Apr/2014

8:30am	Registration			
-				
6:00pm				
9:00am	Opening Ceremony			
-				
9:30am				
9:30am	Keynote Session I			
-	Chair: <u>Okay Kaynak</u> , Bogazici University			
11:00am				
	The Massive Course Meets the Personal Learner <u>Downes, Stephen</u>			
	Re-conceptualizing Teaching and Learning in a New Educational Context <u>DeBoer, Jennifer</u>			
11:00am	Coffee Break			
-				
11:30am				
11:30am	1A: Educational Methods and Learning	1B: E-Assessment and New Assessment Theories (Full Papers)	1C: Innovative Materials, Teaching and Learning Experiences (Short Papers)	1D: Attracting and Retaining Practices in Engineering Education (Short Papers)
-				
1:00pm	Mechanisms in Engineering Education (Full Papers) Chair: <u>Manuel Castro</u> , UNED	Chair: <u>Jörg Abke</u> , University of Applied Sciences Lightweight Ad Hoc Assessment of Practical Programming Skills at Scale <u>Staubitz, Thomas</u> ; Jan, Renz; Christian, Willems; Jasper, Lehmann; Meinel	Chair: <u>Dominik May</u> , TU Dortmund University Adapting Teaching Strategies to Global and Analytic Learning Styles by Real World Engineering Projects <u>Daneti, Marlene</u> Research Workshop	Chair: <u>Christos Douligeris</u> , University of Piraeus Research Center Designing Robotic Avatars in Second Life - A Tool to Complement Robotics Education <u>Buiu, Catalin</u> ; <u>Gansari, Mihai</u> Educational Robotics

Best practices Baumgartner, Ilse; <u>Venky Shankaraman,</u> <u>Venky</u>	Johannes; Meier, Christoph	Research workshop in Engineering Education -- Draft of new learning Jungmann, Thorsten; <u>Ossenberg, Philipp</u>	What Surveys and Interviews tell us <u>Watterson, Craig Alan;</u> Carnegie, Dale Anthony	Educational Robotics as Learning Tools within the Teaching and Learning Practice <u>Eteokleous, Nikleia</u>
Comparison of Frontal Lecture and Workshop Learning Arrangements in a Software Engineering Education Project Mottok, Juergen; <u>Schumm, Michael;</u> Soska, Alexander; Joseph, Saskia; Reschke, Michael; Schroll-Decker, Irmgard; Niemetz, Michael	<u>Zehetmeier, Daniela;</u> Kuhrmann, Marco; Böttcher, Axel; Schlierkamp, Kathrin; Thurner, Veronika	Competence Component of the Project-Oriented Training of Elite Engineering Specialists <u>Mozgaleva, Polina;</u> Zamyatina, Oxana	Supporting Students with Special Needs at University through Peer Mentoring <u>Tobajas, Félix B.;</u> Cabello, Mª Dolores; De Armas, Valentin; Grijalvo, Fernando	Exploiting the synergies between Software Engineering and Robotics: a project-based laboratory <u>Brugali, Davide</u>
Different types of teamwork projects in learning Multimedia technologies Mihova, Marija; <u>Jovanov, Mile;</u> Stankov, Emil	Scalable and Elastic e- Assessment Cloud Solution <u>Ristov, Sasko;</u> Velkoski, Goran; Gusev, Marjan; Armenski, Goce	Gaining and Maintaining Student Attention Through Competitive Activities in Cooperative Learning, A well- received experience in an undergraduate introductory Artificial Intelligence course <u>Silapachote, Piyanuch;</u> Srisuphab, Ananta	Organization of a Lego-Robots Contest Offered to High School Kids by Engineering Students within a Project Based Learning Enviroment <u>Rothe, Irene</u>	Engaging Students With a Mobile Game- Based Learning System in University Education <u>Bartel, Alexander;</u> Hagel, Georg
Engineering practice: teaching ill-structured problem solving in an internship-like course <u>Bozic, Marija;</u> Cizmic, Svetlana; Sumarac- Pavlovic, Dragana; Escalas Tramullas, M. Teresa	A web platform for the assessment of competences in Mobile Learning contexts <u>Rayon, Alex;</u> Guenaga, Mariluz; Núñez, Asier	Designing Proficient Academic Science Education for the Gifted Youth <u>Pyetan, Erez;</u> Oni- Grinberg, Adar; Nevo, Uri; Shofty, Shira; Yankielowicz, Shimon	Seeking clues to promote the participation of women in electrical engineering studies Alejos, Ana Vazquez; <u>Milagros, Maria Pilar;</u> Falcone, Francisco; Martin, Antonio Lopez; Sánchez, Manuel García	The EOLES Project Gericota, Manuel; <u>Fidalgo, Andre;</u> Ferreira, Paulo; Barataud, Denis; Andrieu, Guillaume; De Craemmer, Renaat; Cristea, Mihai; Benachenhou, Abdelhalim; Ankrim, Mohammed; Bo...
Lunch Break				
2A: Infrastructure and Technologies for Engineering Education (Full Papers) Chair: <u>Anna Friesel,</u> Technical University of Denmark	2B: E-Assessment and New Assessment Theories (Full Papers) Chair: <u>Carlos Delgado</u> Kloos, Universidad Carlos III de Madrid	2C: Graduate Curricula and Programs (Full Papers) Chair: <u>Dale Carnegie,</u> Victoria University of Wellington	2D: Knowledge and Competencies in Engineering Education (Short Papers) Chair: <u>José Couto</u> Marques, Universidade do Porto - Faculdade de Engenharia	2E: Software Development for Education (Special Session) Chair: <u>Bogdan-</u> Alexandru Deaky, Bluemind Software / Transilvania University of Brasov
Student Satisfaction of e-Learning Tools for Computer Architecture and Organization Course Armenski, Goce; Kostoska, Magdalena; <u>Ristov, Sasko;</u> Gusev, Marjan	Handling Re-grading of Automatically Graded Assignments in MOOCs <u>Renz, Jan;</u> Staubitz, Thomas; Willems, Christian; Klement, Hauke; Meinel, Christoph	Effecting Major Changes to a First Year University Engineering Programme <u>Carnegie, Dale;</u> Browne, Will	To Develop the Mandarin-Phonetic- Symbol Communication Aid for Children with High- Functioning Autism Chu, Yung-Long; Chang, Shuping; Zhao, Yu-Xiang; Hsu, Feng- Cihh; You, Jia-Sheng; <u>Chou, Chien-Hsing</u>	Developing Android client applications for online laboratories <u>Deaky, Bogdan-</u> Alexandru; Parv, Luminita
The users' evaluation of newly introduced on-line collaborative activity for building ontology <u>Jovanov, Mile;</u> Gusev, Marian; Mihova, Mariia	Intelligent Student Profiling for Predicting e-Assessment Outcomes <u>Simjanoska, Monika;</u> Gusev, Marjan; Ristov, Sasko; Bogdanova, Ana Madevska	Integrating Practical CISCO CCNA Courses in the Computer Networks' Curriculum <u>Ristov, Sasko;</u> Gusev, Marjan; Donevski, Aleksandar	Cross-cultural Active Learning: Qualitative Results from Americans Teaching	A Robotic Arm Simulator Software Tool for use in Introductory Robotics Courses Gonzalez, Fernando Garcia; <u>Zalewski,</u> Janusz

	<p>Customized work based learning support system for less academically prepared adults in online environment</p> <p><u>Jakobsone, Andra</u>; Motejlek, Jiří; Cakula, Sarma</p>	<p>E-Assessment with Interactive Images</p> <p>Gusev, Marjan; <u>Ristov, Sasko</u>; Armenski, Goce; Gusev, Pano; Velkoski, Goran</p>	<p>Research Experience Program in Qatar</p> <p><u>Baig, Saira Dawer</u>; Hussain, Syed Imtiaz; Qaraqe, Khalid A.</p>	<p>in China</p> <p><u>Lord, Susan M.</u>; Wang, Jiajia; Chang, Victor W.; Kuang, Yinghui; Tang, Yongming</p>	<p><u>Sandra</u></p>
	<p>Heterogeneous Ability-Centered Team Building to Aid Enquiry Based Learning in Engineering Classroom</p> <p><u>Shakir, Muhammad Zeeshan</u>; Baig, Saira Dawer; Imran, Muhammad Ali; Hussain, Syed Imtiaz; Abbasi, Qammer Hussain; Qaraqe, Khalid A.</p>	<p>Standard Setting in Students Assessment of Higher Education Institution in Malaysia</p> <p>Khatimin, Nuraini; Abd Aziz, Azrilah; <u>Zaharim, Azami</u></p>	<p>The Role of Industrial/Academia Liaisons in the Consecution of Integral Curricula in Engineering</p> <p>Falcone, Francisco; Alejos, Ana; Milagros, Maria Pilar; Sanchis, Pablo; <u>Lopez-Martin, Antonio</u></p>	<p>SUPER - Sustainable Perception Index for Sustainable Development regarding gender and diversity aspects</p> <p><u>Krause-Steger, Sandra</u>; Roski, Melanie</p>	<p>A New Hardware-in-the-Loop Simulator for Control Engineering Education</p> <p>Usenmez, Serdar; <u>Yaman, Ulas</u>; Dolen, Melik; Koku, A. Bugra</p>
			<p>The Gamification of Dynamic Spectrum Access and Cognitive Radio</p> <p><u>Sutton, Paul</u>; Doyle, Linda</p>	<p>Preventing Enginnering Education Dropouts: Measuring the Compatibility of Personality Type and Engineering Major</p> <p><u>Ktoridou, Despo</u>; Epaminonda, Epaminondas</p>	<p>Looking for sustainable software for education in developing countries</p> <p><u>Munoz-Hernandez, Susana</u></p>
				<p>The Effectiveness of the Junior Companies in the Vision of Engineering Students of a Brazilian University</p> <p>Maria Bogo, Adelaide; <u>Christian Schmitt, Alan</u>; Henning, Elisa; Gehlen de Marco, Rodrigo</p>	
				<p>Engineering students and graduates on the labor market: FIM UHK case study</p> <p><u>Poulova, Petra</u>; Simonova, Ivana</p>	
2:00pm - 3:30pm	IEEE Education Society Standard Committee Meeting				
3:30pm - 4:00pm	Coffee Break				
4:00pm - 5:30pm	<p>3A: Active Learning and new Learning Models (Full Papers)</p> <p>Chair: <u>James Wolfer</u>, Indiana University South Bend</p>	<p>3B: Lifelong Learning (Full Papers)</p> <p>Chair: <u>Axel C.H. Böttcher</u>, University of Applied Sciences Munich</p>	<p>3C: Learning Analytics and Assessment in Serious Games (Special Session)</p> <p>Chair: <u>Francesco Bellotti</u>, University of Genoa</p>	<p>3D: Learning Systems Platforms and Architectures (Short Papers)</p> <p>Chair: <u>Ian Grout</u>, University of Limerick</p>	<p>3E: Software Development for Education (Special Session)</p> <p>Chair: <u>Bogdan-Alexandru Deaky</u>, Bluemind Software / Transilvania University of Brasov</p>
	<p>Synergistic model of content evolution in educational programs for IT industry</p> <p><u>Shukhman, Alexander E.</u>; Belonovskaya, Isabella D.</p>	<p>Design of the Monitoring System of a Learning Organizer</p> <p>Manso-Vázquez, Mario; <u>Llamas-Nistal, Martín</u></p>	<p>Applying learning analytics to simplify serious games deployment in the classroom</p> <p>Serrano-Laguna, Ángel; <u>Fernández-Manjón, Baltasar</u></p>	<p>Approaches for Competencies Assessment in Open Source e-Learning Environments</p> <p>Kostadinova, Hristina; Raykova, Mariana; <u>Tuparov, Georgi</u>; Tuparova, Daniela Ivanova</p>	<p>Using LabVIEW for building laboratory server: pros and cons, design patterns, software architecturing and common pitfalls</p> <p><u>Titov, Igor</u></p>
	<p>Teamwork competence and academic motivation in computer science engineering studies</p> <p>Pérez Martínez, Jorge Enrique; <u>García Martín, Javier</u>; Sierra Alonso, Almudena</p>	<p>Using E-Journal to Improve Self-Regulated Learning in Introductory Computer programming course.</p> <p><u>Alhazbi, Saleh M.</u></p>	<p>The Impact of Pedagogical Agents in 3D Collaborative Serious Games</p> <p>Terzidou, Theodouli; <u>Tsiatsos, Thrasyvoulos G.</u></p>	<p>A Human-like Embodied Agent Learning Tour Guide for E-learning Systems</p> <p><u>Hasegawa, Dai</u>; Ugurlu, Yucel; Sakuta, Hiroshi</p>	<p>Learning Analytics on federated remote laboratories: tips and techniques</p> <p><u>Orduña, Pablo</u>; Almeida, Aitor; López-de-Ipiña, Diego; García-Zubia, Javier</p>
	<p>Postcards from the near Future: Towards</p>	<p>Distance Training of Computer-based Measurements and Instrument Control</p> <p><u>Gergic, Bojan</u></p>	<p>Use computer game to teach Object-Oriented</p>	<p>Towards Electronic</p>	

Communicating Communications <u>Foley, Jessica</u> ; Doyle, Linda; McGettrick, Séamas	A graphical approach for comparing qualifications <u>Gatteschi, Valentina</u> ; Lamberti, Fabrizio; Demartini, Claudio	Programming in computer science course <u>Wong, Yoke Seng</u> ; Mohamad Yatim, Maizatul Hayati; Tan, Wee Hoe	Exams in Undergraduate Engineering <u>Richter, Thomas</u> ; <u>Boehringer, David</u>	A LabVIEW based Experiment Execution Engine to Ease the Development of ISA batch Lab Servers <u>Garbi Zutin, Danilo</u> ; Auer, Michael
Assesment of Flipped Classrom Model in a alculus II Course <u>kadry, seifedine</u>	Using the iPad as a Pedagogical Tool to Enhance the Learning Experince for Novice Programing Students <u>Amer, Hoda</u> ; Ibrahim, Walid	Requirements on learning analytics for facilitated and non facilitated games Baalsrud Hauge, Jannicke Madeleine; Bellotti, Francesco; <u>Kalverkamp, Matthias</u> ; Berta, Riccardo; de Gloria, Alessandro; Barabino, Giulio	Student Interactions with E-learning Systems: User and Topic Analysis <u>Ugurlu, Yucel</u> ; Hasegawa, Dai; Sakuta, Hiroshi	Simple and achievable educational projects by interconnecting different ICs <u>Faustino Andrade, Tiago</u> ; Rodrigues Quintas, Manuel; Restivo, Maria Teresa; Caracinha, Diogo
			Dynamical Evaluation Of Academic Performance In E-learning Systems Using Neural Networks Modeling (Time Response Approach) <u>Mustafa, Hassan M. H.</u>	Neural Network and Linear Regression Methods for Prediction of Students' Academic Achievement <u>Mohd Arsad, Pauziah</u> ; Buniyamin, Norlida; Ab Manan, Jamalullail

Date: Friday, 04/Apr/2014

8:30am Registration

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5:00pm9:00am **4A: Learning Systems Platforms and Architectures (Full Papers)**
Chair: **David Boehringer**, Universität Stuttgart

10:30am

eCampus as a Platform for Ubiquitous Learning
Lapuh Bele, Julija; Debevc, Matjaž**CampusConnect: An Open-Source Initiative to Connect Learning Management Systems**
Boehringer, David; Bernlöhr, Heiko**Interactive Tools for Teaching Electrical Engineering**
Vollrath, Joerg**A Notification Manager to support collaborative learning in LMS Moodle**
Echeverría, Leovy; Cobos, Ruth; Morales, Mario**4B: Laboratory Experiences: on-site and remote environments (Full Papers)**
Chair: **Maria Teresa Restivo**, Universidade Porto**TTC Process Control Trainer: Motivations and the design of a laboratory trainer to meet Saudi Arabia educational needs**Dabroom, Ahmed Mohammed; Iqbal, Muhammad Javed; Tay, Tee Tiong; Shaukat, Nabil; Mahamood, Shahinshah**Integration of laboratory experiments into introductory electrical engineering courses: concept, implementation and competence-based evaluation**
Block, Brit-Maren**Formation of user profile and determination of the training modes in the system "Smart lab"**
Makarova, Yuliya; Langmann, Reinhard; Krisilov, Viktor; Vu, Huy Ngok**FORGE: Enhancing****4C: Infrastructure and Technologies for Engineering Education (Full Papers)**
Chair: **Igor Titov**, Bauman Moscow State Technical University (BMSTU)**Authoring Learning Designs: The Expressiveness of IMS LD and Collaboration Supports**
Nurjanah, Dade**A review of webapp authoring tools for e-learning**
Latorre, Miguel; Robles-Gómez, Antonio; Rodríguez, Luis; Orduña, Pablo; San Cristóbal, Elio; Caminero, Agustín C.; Tobarra, Llanos; Lequerica, Irene; Ros, Salvador; Herná...**From manuals towards product embedded interactive learning environments**
Puchleitner, Thomas; Petrovic, Otto**Developing Moodle Plugin for Creating Learning Content with Another REST Function Call**
Kautsar, Irwan Alnarus; Kubota, Shin-Ichiro; Musashi, Yasuo; Suditani.**4D: Innovative Materials, Teaching and Learning Experiences (Short Papers)**
Chair: **Dale Carnegie**, Victoria University of Wellington**Learning Physics down a slide: A set of experiments to measure reality through smartphone sensors**
Martínez, Lander; Garaizar, Pablo**Virtual Labs and Remote Labs: Practical experience for everyone**
Kruse, Daniel; Frerich, Sulamith**Introduction to Microcomputer Technology with the MSP430 Launch Pad in Remote Labs**
Versen, Martin; Kipfelsberger, Stefan**Addressing Low-Power Electronics in a Digital System and FPGA Design Course**
Winzker, Marco**A topic on simulation in telecommunications engineering**
Barcelo-Arroyo, Francisco; Martín-Escalona, Israel; Zola**4E: About MOOCs, SPOCs, and other OCs (Special Session)**
Chair: **Carlos Delgado Kloos**, Universidad Carlos III de Madrid**Experiences of Running MOOCs and SPOCs at UC3M**
Delgado Kloos, Carlos; Muñoz-Merino, Pedro J.; Muñoz-Organero, Mario; Alario-Hoyos, Carlos; Pérez-Sanagustín, Mar; Parada G, Hugo A.; Ruipérez, José A.; Sanz, Juan Luis**Serious Games as edX MOOC Activities**
Freire, Manuel; del Blanco, Angel; Fernandez-Manjon, Baltasar**Free/Open Source Software Projects as early MOOCs**
Robles, Gregorio; Plaza-Garcés, Hugo; González-Barahona, Jesús M.**Towards a Collaborative Pedagogical Model in MOOCs**
Claros, Iván; Echeverría, Leovy; Garmendía, Antonio; Cobos, Ruth**A Practice-based**

	elearning and research in ICT through remote experimentation <u>Marquez-Barja, Johann M.</u> ; Jourjon, Guillaume; Mikroyannidis, Alexander; Tranoris, Christos; Domingue, John; DaSilva, Luiz A.	Kenichi	Escalona, Israel, Zola, Enrica	MOOC for Learning Electronics García, Félix; Díaz, Gabriel; <u>Tawfik, Mohamed</u> ; Martín, Sergio; Sancristobal, Elio; Castro, Manuel	
			Problems Encountered in Technical Education of the Blind, and Related Aids: Virtual Cubarythms and 3D Drawings <u>Mikulowski, Dariusz</u> ; Brzostek-Pawlowska, Jolanta	Supporting openness of MOOCs contents through of an OER and OCW framework based on Linked Data technologies Piedra, Nelson; Chicaiza, Janneth; López, Jorge; <u>Tovar Caro, Edmundo</u>	
10:30am - 12:00pm	Keynote Session II Chair: Michael Auer , Carinthia Tech Institute Connecting the dots: MATLAB® and Simulink® help engineering education to take advantage of new teaching agents <u>Tarchini, Alex</u>				
	Industry 4.0 & Education 4.0 <u>Langmann, Reinhard</u>				
12:00pm - 12:30pm	Coffee Break				
12:30pm - 2:00pm	5A: Learning Systems Platforms and Architectures (Full Papers) Chair: Marco Winzker , Hochschule Bonn-Rhein-Sieg Quality despite quantity – teaching large classes in C programming and fundamentals in computer science Vogel-Heuser, Birgit; Frank, Timo; Rehberger, Sebastian; <u>Aicher, Thomas</u> Virtual-C - a programming environment for teaching C in undergraduate programming courses <u>Pawelczak, Dieter</u> ; Baumann, Andrea Cloud E-learning and Benchmarking Platform for the Parallel and Distributed Computing Course <u>Ristov, Sasko</u> ; Gusev, Marjan; Velkoski, Goran RFID in Electronic Engineering Education <u>Grout, Ian</u> ; César Rodrigues da Silva, Alexandre	5B: Online Laboratories and Architectures (Full Papers) Chair: Danilo Zutin , CUAS Antiplagiarism in educational remote laboratories done right: technological, educational and psychological implications <u>Titov, Igor</u> ; Glotov, Alexander; Bondarenko, Dmitry; Savkin, Sergei Deconstructing remote laboratories to create Laboratories as a Service (LaaS) <u>Caminero, Agustín C.</u> ; Robles-Gómez, Antonio; Ros, Salvador; Tobarra, Llanos; Hernández, Roberto; Pastor, Rafael; Castro, Manuel Middleware Solutions for Service-Oriented Remote Laboratories: A Review <u>Tawfik, Mohamed</u> ; Sancristobal, Elio; Ros, Salvador; Hernandez, Roberto; Caminero, Agustín; Tobarra, Llanos; Garcia-Loro, Felix; Latorre, Miguel; Carro, German; Diaz... Integrating Enquiry-based Learning Pedagogies and Remote Access	5C: Attracting, Engaging and Retaining Human Talent (Short Papers) Chair: Sebastian Gross , The MathWorks GmbH To Design an Interactive Learning System for Child by integrating Blocks with Kinect Chen, Ke-Wei; You, Jia-Sheng; Hsu, Feng-Chih; Hsieh, Yi-Zeng; <u>Chou, Chien-Hsing</u> Attracting, Engaging and Retaining Students in Engineering Programs – A Case Study <u>Imran, Ahmed</u> ; Nasor, Mohamed; Hayati, Fahar An Engineering Approach to Developing Lecture Material for new Study Courses <u>Studt, Reimer</u> ; Weiß, Florian; Mottok, Jürgen Profiling Students' Performance and Measuring their Progress in the area of Multimedia Communications <u>Papadakis, Andreas</u> ; Samarakou, Maria; Tsaganou, Grammatiki Students' Skills Perceptions for	5D: Work in Progress Papers Chair: José Couto Marques , Universidade do Porto - Faculdade de Engenharia Just-in-Time Teaching in Software Engineering: A Chinese-German Empirical Case Study Tao, Ye; Liu, Guozhu; <u>Mottok, Jürgen</u> ; Hackenberg, Rudi; Hagel, Georg Preparation on cultural differences for all <u>Welzer, Tatjana</u> Student Exchange Programs in Engineering Sciences between USA and Germany <u>Strenger, Natascha</u> ; Frerich, Sulamith; Petermann, Marcus Landscape format - a course concept to stimulate interdisciplinary dialogue <u>Berbuir, Ute</u> ; Petermann, Marcus; Berens, Tobias; Wagner, Pia Youth interests as vehicles for the acquisition of technological competence: Insights	5E: Technical Didactics Software Engineering (Special Session) Chair: Juergen Mottok , Regensburg University of Applied Sciences Software Mangineeringment: Teaching Project Management from Software Engineering Perspective <u>Tomer, Amir</u> Identifying Base Competencies as Prerequisites for Software Engineering Education <u>Thurner, Veronika</u> ; Böttcher, Axel C.H.; Kämper, Andreas New Sustainable Teaching Approaches in Software Engineering Education <u>Kropp, Martin</u> ; Meier, Andreas Controlling Quad-Copters A Project-based Approach in the Teaching of Application Design <u>Winterfeldt, Götz</u> ; Hahne, Christina Monitoring Students' Mobile App Coding Behavior Data Analysis Based on IDE and Browser Interaction Logs Fuchs, Markus;

		<p>Remote Access Laboratories for STEM Education <u>Maiti, Ananda</u>; Maxwell, Andrew D.; Kist, Alexander A.; Orwin, Lindy</p> <p>Integration of management services for remote/virtual laboratories Pastor-Vargas, Rafael; Tobarra-Abad, Llanos; Ros-Muñoz, Salvador; Hernández-Berlinches, Roberto; <u>Caminero, Agustín</u>; Robles, Antonio; Castro, Manuel; Díaz, Gabriel; Sancr...</p>	<p>Engineering <u>Depieri, Adriana Anunciatto</u>; Lopes, Roseli de Deus</p> <p>Summative EEG Alpha classification relates Learning Style and Openness <u>Abdul Rashid, Nazre bin</u>; Taib, Mohd. Nasir bin; Hj. Murat, Zunairah binti; S. Abd. Kadir, Ros Shilawani binti; Sulaiman, Norizam bin; Lias, Sahrim bin</p>	<p>from two participatory projects <u>Berger, Thomas</u>; Hofstätter, Birgit; Thaler, Anita; Freitag, Daniela</p>	<p>Heckner, Markus; Raab, Felix; <u>Wolff, Christian</u></p>
2:00pm	Lunch Break				
3:00pm					
3:00pm					
4:30pm	<p>6A: Educational Methods and Learning Mechanisms (Full Papers) Chair: Mohamed Tawfik, UNED</p> <p>Student perceptions and attitudes towards the Software Factory as a learning environment <u>Ahmad, Muhammad Ovais</u>; Liukkunen, Kari; Markkula, Jouni</p> <p>Fostering computational thinking in engineering education - challenges, examples, and good practices <u>Gross, Sebastian</u>; Mohtadi, Coorous; Kim, Mischä; Schlosser, Joachim; Lluch, Dan; Schneider, Dorian</p> <p>The Role of Teaching Decision Analysis for Sustainability in Engineering Schools <u>João, Isabel M.</u>; Quadrado, José C.</p> <p>FOSTERING INNOVATION IN ENGINEERING UNDERGRADUATE COURSES IN BRAZIL <u>Valadares, Eduardo de Campos</u>; e Silva Junior, Leonardo Jose</p>	<p>6B: Web 2.0 and Social Computing for Learning and Knowledge Sharing (Full Papers) Chair: Edmundo Tovar, Universidad Politécnica de Madrid</p> <p>Usefulness of information visualizations based on educational data <u>Tervakari, Anne-Maritta</u>; Silius, Kirs; Koro, Juho; Paukkeri, Jukka; Pirttilä, Olli</p> <p>Towards a Folksonomy Solution to Support Open Educational Activities and Resources in Edu-AREA <u>Caeiro Rodríguez, Manuel</u>; Santos Gago, Juan Manuel; Llamas Nistal, Martin; Lama Penín, Manuel</p> <p>Social Applications in Engineering Education <u>Cerna, Miloslava</u>; Poulova, Petra</p> <p>A Process and a Tool to Assess Vocabulary Learning for Computer Science Engineers Roda-García, José-Luis; <u>Rodríguez, Romén</u>; López de Vergara Méndez, Alejandro F.</p>	<p>6C: Teaching and Learning Experiences in Engineering Education (Full Papers) Chair: Axel C.H. Böttcher, University of Applied Sciences Munich</p> <p>An Experimental Study on UML Modeling Errors and their Causes in the Education of Model Driven PLC Programming Duschl, Kerstin Christine; Obermeier, Martin; <u>Vogel-Heuser, Birgit</u></p> <p>An Industry Sponsored Undergraduate Research (UR) Experience: Preliminary Study on Fulfillment of Program Outcomes and Industry Requirements <u>Kara, Ali</u>; Kapusuz, Kamil Yavuz</p> <p>University-Industry Collaboration Chairs: Initiatives at the Public University of Navarre <u>Sanchis, Pablo</u>; Astrain, David; Lopez-Martin, Antonio; Perez-Artieda, Gurutze; Gubia, Eugenio; Ursua, Alfredo; Barrenechea, Edurne; Matias, Ignacio R.</p> <p>Model quality assessment of educational services: Case of educational institutions Zipaquirá - Colombia <u>Medina, Victor Hugo</u>; Gil, José Antonio</p>	<p>6D: Wireless, Mobile and Ubiquitous Technologies for Learning (Short Papers) Chair: Dominik May, TU Dortmund University</p> <p>Application of Remote Experiments in Basic Education through Mobile Devices de Lima, João Paulo Cardoso; Rochadel, Willian; <u>Silva, Akássio Miranda</u>; Simão, José Pedro Schardosim; Silva, Juarez Bento da; Alves, João Bosco da Mota</p> <p>Competence Based Interactive Learning with HomeLabKits: experience and work in progress <u>Jaanus, Martin</u>; Umbleja, Kadri; Kukk, Vello; Udal, Andres</p> <p>Recommender System for Web 2.0 Supported eLearning <u>Holenko Dlab, Martina</u>; Hoić-Božić, Nataša</p> <p>Towards a Social E-Learning Platform for Demanding Users <u>Valtolina, Stefano</u>; Mesiti, Marco; Epifania, Francesco; Apolloni, Bruno</p> <p>Work in progress – Role of learning strategies in Electrical Circuits and Analog Electronics courses Ramírez Echeverry, Jhon Jairo; <u>Olarte, Andres</u>; García, Agata</p>	<p>6E: IT's and Engineering Pedagogy (ITEP'14) Chair: James Wolfer, Indiana University South Bend Chair: Bogdan-Alexandru Deaky, Bluemind Software / Transilvania University of Brasov</p> <p>The color of the light: a remote laboratory that uses a smart device that connects teachers and students Carro, German; Castro, Manuel; <u>Sancristobal, Elio</u>; Díaz, Gabriel; Mur, Francisco; Latorre, Miguel; Chaparro, Mercedes; López-Rey, Africa; Salzmann, Christophe; Gillet...</p> <p>Matching learning styles to different type of DSP laboratory experiments <u>Krnetá, Radojka</u>; Milošević, Marjan; Damjanović, Djordje; Milošević, Danijela</p> <p>Topical Tapestry: Weaving Threads of Parallel Programming, Computer Graphics, and Artificial Intelligence into Undergraduate CS Courses <u>Wolfer, James</u></p> <p>Experimental modelling vs. numerical simulation in geotechnical training <u>Marques, José Couto</u></p>

using mobile Devices & Social Media in Supporting Engineering Education
Khan, Md Munir Hayet;
Chiang, Jeffrey
Choong Luin

wiki as a Knowledge Management Tool at the Multicultural School of Athens
Kalagiakos,
Panagiotis;
Koumpouros, Ioannis

4:30pm Coffee Break

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5:00pm

-

5:00pm

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6:30pm

7A: Accreditation Issues, Degree Programs and Curricula (Full Papers)
 Chair: **Anna Friesel**, Technical University of Denmark

A Model for on-line education of ABET-required professional aspects of engineering
Barakat, Nael; Plouff, Christopher

A Framework for Designing a Market-Oriented Curriculum for the Degree of Information System Engineering
Alkazemi, Basem
Yousef

A Retrospective Course Survey of Graduates to Analyse Competencies in Software Engineering
 Abke, Jörg; **Gold, Carolin;** Sedelmaier, Yvonne

Educational Policies in European Engineering Higher Education System - Implementation of a survey
Cojocaru, Dorian; Popescu, Dorin; Poboroniuc, Marian; Ward, Tony

7B: Infrastructure and Technologies for Engineering Education (Full Papers)
 Chair: **Sebastian Gross**, The MathWorks GmbH

Using App Inventor and LEGO mindstorm NXT in a Summer Camp to attract High School Girls to Computing Fields
 Al-Khalifa, Hend; **Al-Humoud, Sarah;** Al-Razgan, Muna; Alfaries, Auhood

Gender in Engineering Education
 Pourrat, Yvonne; **Béraud, André**

An Arabic Ontology-based Learning System for Children with Intellectual Challenges
Saleh, Moutaz Saleh; Jaam, Jihad Mohamad

Pirus: A File Storage Service in Cloud Computing for Educational Use
Kallergis, Dimitrios; Chimos, Konstantinos; Vizikidis, Stefanos; Karvounidis, Theodoros; Basios, Michael; Douligeris, Christos

7C: Knowledge and Competencies in Engineering Education (Full Papers)
 Chair: **Danilo Zutin**, CUAS

ENVIRONMENTAL EDUCATION AND SUSTAINABLE DEVELOPMENT IN ENGINEERING FIELD: IMPLEMENTATION AND LEARNING OUTCOMES
Md Zain, Shahrom

Engineering Education: Time to Reform the Fragmented, Content-Overloaded Curricula
Ktoridou, Despo; Etekleous, Nikleia

Multiple-choice Testing: Knowledge, or Random Choice?
Simonova, Ivana

Programming literacy level needed for modern teachers: fragile border between content creator and a programmer
Titov, Igor; Kulmamirov, Serik; Titov, Evgeny

7D: Work in Progress Papers
 Chair: **David Boehringer**, Universität Stuttgart

A 360-degree Evaluation Framework for Doctoral Education
Calatrava Moreno,
María del Carmen

IEEE Direct to Student Program (D2S) : Changing dynamics between education and innovation
 Usop, Kauthar; **Mandal, Subhamoy;** Ong, Rainier; Gonzalez, Emmanuel; Reilly, Rob

Inclusion of teaching on self-awareness, diversity and reflection to support an engineering curriculum augmented with problem and scenario-based learning: A work in progress
Tilley, Emanuela; Peters, Jan; Mitchell, John

Stakeholders-oriented Quality of Education Assurance System for successful institutional accreditation
Moscinska, Katarzyna

ALLES ING! Count me in! Attracting human talents in providing open access to universities with focusing on individual opportunities in engineering sciences
Janssen, Theresa; Zeuch, Mark; Petermann, Marcus; Kilzer, Andreas

Unified, Multiple Target, Computer Engineering Learning Platform
Žagar, Martin; Frid, Nikolina; Knezović, Josip; Hofman, Daniel; Kovač, Mario; Sruk, Vlado; Mlinarić, Hrvoje

7E: IT's and Engineering Pedagogy (ITEP'14)
 Chair: **Radojka Krneta**, University of Kragujevac, Faculty of Technical Sciences
 Chair: **José Couto Marques**, Universidade do Porto - Faculdade de Engenharia

An Enhanced Bayesian Network Model for Prediction of Students' Academic Performance in Engineering Programs
Sharabiani, Ashkan; Sharabiani, Anooshiravan; Karim, Fazle; Atanasov, Mariya; Darabi, Houshang

Transition in Student Motivation during a Scratch and an App Inventor course (Work in Progress)
Nikou, Stavros; Economides, Anastasios

Volition-driven Adaption - Following the individual Goals of Engineers in E-Learning Processes
 Heimbuch, Alexander; Saul, Christian; **Lucht, Martina**

Augmented Reality to Improve STEM Motivation
Restivo, Maria Teresa; Chouzal, Fátima; Rodrigues, José; Menezes, Paulo; Lopes, J. Bernardino

Using the ChipKIT to apply a novel concept for configuring embedded online labs
Deaky, Bogdan-Alexandru; Parv, Luminita; Faustino Andrade, Tiago

Development of Information System for Students' Project Activity Management
Gulyaeva, Kseniya;

8:00pm Conference Dinner

11:00pm

Date: Saturday, 05/Apr/2014

8:30am Registration

3:00pm

8A: Innovative Materials, Teaching and Learning Experiences in Engineering Education (Full Papers)
Chair: **Jörg Abke**, University of Applied Sciences

Computer Simulation at School: Scratch and Programming Language Choosing Criteria
Djenjer, Vadim O.

Maintaining Quality of Software Engineering Education by a Shared Repository of Course Materials in a Multilateral Setting
Bothe, Klaus; Budimac, Zoran; Putnik, Zoran; Ivanovic, Mirjana; Cico, Betim; Stoyanov, Stanimir; Zdravkova, Katerina; Stoyanova-Doyceva, Asya; Jakimovski, Boro; Jurca...

Software Engineering Body of Skills (SWEBOS)
Sedelmaier, Yvonne; Landes, Dieter

Motivating Computer Science Students by Facilitating Interdisciplinary Educational Activities
Mavridis, Apostolos; **Tsiatsos, Thrasyvoulos G.**

8B: Teaching and Learning Experiences in Engineering Education (Full Papers)
Chair: **Tiia Rüütmann**, Tallinn University of Technology

Capstone Design Projects in the Environment of Weak Industry-Academia Interaction
Al-Bahi, Ali M.; Taha, Mahmoud A.; Turkmen, Nedim

3D Visualization to Aid Engineering Education: A Case Study to Visualize the Impact of Wireless Signals on Human Brain
Nasir, Adnan; Sheharyar, Ali; **Shakir, Muhammad Zeeshan**; Qaraqe, Khalid; Bouhali, Othmane

Modelling potential foreign applicant flow: Case of Vidzeme University of Applied Sciences
Nilanders, Kārlis; **Cakula, Sarma**

The insertion on the labor world: From Theory to Praxis.
Goicoechea Castaño, Itziar; Patiño Cambeiro, Faustino; Fenollera Bolibar, Maria; Patiño Barbeito, Faustino; Rodriguez Rodriguez, Francisco

8C: Infrastructure and Technologies for Engineering Education (Full Papers)
Chair: **Igor Titov**, Bauman Moscow State Technical University (BMSTU)

A Course for Teaching Integrated System Design to Computer Engineering Students
Zuolkernan, Imran

Payload Development and Launch of a Stratosphere Balloon Mission
Altmann, Andreas; Birkner, Wolfgang;

Häckl, Franz Xaver; Hanner, Christopher; Liebhart, Peter; Metschl, Samuel; Weck, Florian; Farmbauer, Michael; Heiß, Manfred; Cuno...

Preparatory Mathematics Course for Non-Traditional Engineering Students
Kälberer, Nina; Böhmer, Cornelia; Tschirpke, Katrin; Beck-Meuth, Eva Maria

A web based tool for teaching hardware design based on the plain simple hardware description language
Becker, Karsten

8D: Work in Progress Papers

Chair: **Marco Winzker**, Hochschule Bonn-Rhein-Sieg

Are there competences every computer scientist should have?
Bröker, Kathrin; **Magenheim, Johannes**

Using Videoanalysis to Evaluate Pedagogical Content Knowledge of Computer Science Student Teachers
Margaritis, Melanie; Hubwieser, Peter; **Magenheim, Johannes**

Teaching "Design First" interleaved with Object Oriented Programming in a Software Engineering course
Giordano, Daniela; **Maiorana, Francesco**

The Blue Track - Sustainability in the study programs of Mechanical and Electrical Engineering
Gross, Iris; Roerig, Horst; Franke, Dieter; Seuser, Katharina

New Concepts of Automatic Answer Evaluation in Competence Based Learning
Umbleja, Kadri; Kukk, Vello; Jaanus, Martin; Udal, Andres

Representing Examination Question Knowledge into Genetic Algorithm
Ibrahim Teo, Noor Hasimah; Abu Bakar, Nordin; Abd Rashid, Mohamad Rezduan

8E: The Laboratory in Modern Engineering Education (Special Session)
Chair: **Claudius Terkowsky**, TU Dortmund University

Bringing The Inquiring Mind Back Into The Labs - A Conceptual Framework to Foster the Creative Attitude in Higher Engineering Education

Terkowsky, Claudius; Haertel, Tobias; Bielski, Emanuel; May, Dominik

Building an Undergraduate Robotics Laboratory Serving the STEM Curriculum
Zalewski, Janusz; Gonzalez, Fernando Garcia

Evaluation of Student Performance in Laboratory Applications using Fuzzy Decision Support System Model
yildiz, zehra; baba, fevzi

Remote Laboratory for Education in Automation Engineering
Smajic, Hasan

Can you learn better or worse when you are immersed? The effects of immersive user interfaces on learning in virtual environments
Schuster, Katharina; Bach, Ursula; Richert, Anja; Jeschke, Sabina

10:30am **Keynote Session III**
Chair: **Martin Llamas-Nistal**, University of Vigo

12:00pm

The Vision for the Next Decade for the Engineering Education in Japan
Komeda, Takashi

Presentation about EDUCON 2015 Conference
Rüütmann, Tiia

12:00pm Coffee Break

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12:30pm

12:30pm 9A: Computer and Web based Software in Engineering Education (Full Papers)

Chair: **Miloslava Cerna**, University of Hradec Králové**Study Materials in Online Courses. Analysis reflecting individual learning styles****Simonova, Ivana**; **Poulova, Petra****A tool for evaluating social media enhanced learning environment****Silius, Kirsj**; Tervakari, Anne-Maritta; Pirttilä, Olli; Paukeri, Jukka; Mäkelä, Teemu**A Field Experiment with an Animated Intelligent Tutor in Portugal****Santos, Gustavo**; Jorge, Joaquim; Peñalvo, Francisco**Motivating programming students by Problem Based Learning and LEGO robots****Lykke, Marianne**; Coto, Mayela; Mora, Sonia; Vandel, Niels; Jantzen, Christian

9B: Educational Methods and Learning Mechanisms (Full Papers)

Chair: **Maria Teresa Restivo**, Universidade Porto**Engaging high school students in an engineering thermodynamics project****Preciado Babb, A. Paulino**; Saar, Candace; Sharon,

Friesen; Brandon, Jim

Teaching Basic Control Concepts with a Home-made Thermal System**Ovalle, Diana Marcela**; Combata, Luis Francisco**Teaching FPGA-based Systems**Skliarova, Iouliia; Sklyarov, Valery; **Sudnitson, Alexander**; Kruus, Margus**The Improvement of Confidence Level Of Students Learning Thermodynamics through a Multimedia courseware****Mulop, Normah**; Mohd Yusof, Khairiyah; Tasir, Zaidatun

9C: Competencies, Individual Differences, Intervention and Development (Full Papers)

Chair: **German Arturo Urrego-Giraldo**, UNIVERSIDAD DE ANTIOQUIA (COLOMBIA)**An Evaluation Framework based on Timed Automata for Malleable Learning Scenario****BenSassi, Manel**; Laroussi, Mona**Web Accessibility Evaluation of Massive Open Online Courses on Geographical Information Systems****Calle-Jimenez, Tania Elizabeth**; Sanchez-Gordon, Sandra Patricia; Luján-Mora, Sergio**Contextualized Development of Engineer's Competences for Sustainable Development**
Urrego-Giraldo, German Arturo; Giraldo, Gloria Lucia**Accreditation Process for Engineering Programs in Saudi Arabia: Challenges and Lessons Learned**
Abou-Zeid, Azza; **Taha, Mahmoud**

9D: Innovative Engineering Courses and Labs (Short Papers)

Chair: **Bogdan-Alexandru Deaky**, Bluemind Software / Transilvania University of Brasov**Lecture meets Laboratory - Experimental experiences for large audiences: concept and implementation****Temmen, Katrin**; **Wehebrink, Markus**; **Nofen, Barbara****Experiences with Deploying VISIR at Al-Quds University****Odeh, Salaheddin**; Gustavo, Riberiro Alves; Anabtawi, Mahasen; Jazi, Mahran; Arekat, Mahmoud; **Gustavsson, Ingvar****Integration of simulators in virtual 3D computer science classroom****Branovic, Irina**; Giorgi, Roberto; Jovanovic, Nenad; Popovic, Ranko; Zivkovic, Miodrag; Nikolic, Bosko**Cloud-based Framework for Mobile Learning Content Adaptation****Madjarov, Ivan****Educational software system for reasoning and decision making using Bayesian networks****Milenkovic, Katarina**; Draskovic, Drazen; Nikolic, Bosko

9E: The Laboratory in Modern Engineering Education (Special Session)

Chair: **Claudius Terkowsky**, TU Dortmund University**VISIR work in progress****Gustavsson, Ingvar**; **Lundberg, Jenny****Developing a Graduate Level Embedded System Programming****Course Content by Using Blended Programming Methodologies: Text-Based and Graphical**
Korkmaz, Hayriye; Azaklar Bal, Sezen; Cosgun, Ercan; Tokar, Kenan**What should they learn? - A short comparison between different areas of competence and accreditation boards' criteria for engineering education**
May, Dominik; Terkowsky, Claudius**Renewable Energy Power Station as a Multidisciplinary Laboratory****Labriola, Carlos Víctor**; Colon, Daniel; Isabel, Ferraris; Marcelo, Avila; Gustavo, Ludueña**Introducing CAD/CAM and CNC machining by using a feature based methodology in a manufacturing lab course, a conceptual frame work**
Iqbal, Hassan; Sheikh, Anwar; Abdul Samad, Mohammad

2:00pm Closing Ceremony and Awards Session

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3:00pmPrint View Contact and Legal Notice · Contact Address: info@educon-conference.org
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