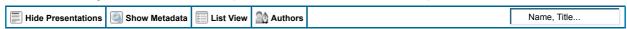| Overview | | 7:32:37 pm ICT | Sebastian Schreiter | ⮐ Logout |

Overview > Conference Agenda

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).

| 🗐 Hide Presentations | 🔍 Show Metadata | 🗐 List View | 🕮 Authors | | Name, Title... |

Session Overview

Date: Wednesday, 25/Feb/2015

9:00am - 12:00pm

Workshop 1
Location: **Ruam Rudee Ballroom**

RALfie - Peer-to-Peer Remote Access Laboratories
<u>Kist, Alexander A.</u>; Maiti, Ananda

Workshop 2
Location: **Ruam Rudee 1**

Considerations for designing at-presence and remote laboratories for students with disabilities
<u>Grout, Ian</u>

12:00pm - 1:00pm

Lunch Break
Location: **Restaurant (8th Floor)**

1:00pm - 5:00pm

Tutorial 1: Lab sessions in VISIR laboratories
Location: **Ruam Rudee Ballroom**

Lab sessions in VISIR laboratories
<u>Gustavsson, Ingvar</u>; Håkansson, Lars; <u>Alves, Gustavo</u>; <u>Fischer, Thomas</u>; Zackrisson, Johan; <u>Nilsson, Kristian</u>; <u>Khan, Imran</u>; <u>Lundberg, Jenny</u>

Date: Thursday, 26/Feb/2015

9:00am - 10:00am

Opening and Keynote Session I
Location: **Ruam Rudee Ballroom**
Chair: **Michael E. Auer**, Carinthia University of Applied Sciences
The Speaker: Ton de Jong is professor of Instructional Technology at the University of Twente. He specializes in inquiry learning (mainly in science domains) supported by technology (online labs, games, modelling environments). He was coordinator of several EU projects (e.g., SimQuest, Co-Lab, KITS, SCY) and several national projects including the ZAP project in which interactive simulations for psychology were developed. ZAPs are sold worldwide. For ZAP and SimQuest he has won a number of international prizes. For one of the SCY applications the Inquiry Based Instruction prize issued by Science was won in 2013. Currently he is coordinator of the 7th framework EU Go-Lab project. He published close to 200 journal articles and book chapters, is associate for the Journal of Engineering Education, and is on the editorial board of eight other journals. He has published papers in Science on inquiry learning with computer simulations (2006) and online laboratories (2013). He is AERA fellow...

Online Labs in the Science Classroom – How Cognitive Scaffolds Support Students to Engage in Effective Learning Experiences
<u>DeJong, Ton</u>

10:00am - 10:30am

Coffee/Tee Break
Location: **Foyer**

10:30am - 12:00pm

1A: Full Papers
Location: **Ruam Rudee Ballroom**
Chair: **Mario A. Bochicchio**, University of Salento

wCloud: automatic generation of WebLab-Deusto deployments in the Cloud
<u>Orduña, Pablo</u>; Gomez-Goiri, Aitor; Rodriguez-Gil, Luis; Diego, Javier; López-de-Ipiña, Diego; García-Zubia, Javier

A Collaborative Multi-Videoconferencing Platform for Online Optical Microscopy
<u>Bochicchio, Mario Alessandro</u>; Longo, Antonella; Zappatore, Marco

Teaching and learning globally connected - Using live online classes for preparing international engineering students for transnational collaboration and for studying in Germany

1B: Full Papers
Location: **Ruam Rudee 1**
Chair: **Karsten Henke**, Ilmenau University of Technology

Modelling combined with remote experiments
<u>Kuriščák, Pavel</u>

Safety in Interactive Hybrid Online Labs
<u>Henke, Karsten</u>; Vietzke, Tobias; Wuttke, Heinz-Dietrich; Ostendorff, Steffen

Surfing Virtual Environment in the Galápagos Islands
<u>Vaca Cárdenas, Leticia Azucena</u>; Bertacchini, Francesca; Gabriele, Lorella; Tavernise, Assunta; Olmedo, Diana Elizabeth; Pantano, Pietro; Bilotta, Eleonora

A Distinctive Approach to Enhance the Utility of Laboratories in Indian Academia

May, Dominik; Sadiki, Abdelhakim; Pleul, Christian; Tekkaya, A. Erman

Ram B, Kalyan; Hegde, Shilpa Rajaram; P, Pruthvi; Hiremath, Panchaksharayya S; Jackson, David; Kumar, S Arun

Design and Operational Reliability for a Peer-to-Peer Distributed Remote Access Laboratory
Maiti, Ananda; Maxwell, Andrew D; Kist, Alexander A

12:00pm - **1:30pm**	**Lunch Break** Location: **Restaurant (8th Floor)**

1:30pm - **3:00pm**	**2A: Full Papers** Location: **Ruam Rudee Ballroom** Chair: **Danilo Zutin**, CUAS	**2B: short Papers** Location: **Ruam Rudee 1** Chair: **Dieter Wuttke**, TU Ilmenau

An HTML Client for the Blackbody Radiation Lab
Kreiter, Christian; Garbi Zutin, Danilo; Auer, Michael

Development and Application of Remote Laboratory for Embedded Systems Design
Parkhomenko, Anzhelika; Gladkova, Olga; Kurson, Sergey; Sokolyanskii, Aleksandr; Ivanov, Eugene

Converting a remote laboratory back end from Remote Panels in LabVIEW to HTML5
Samuelsen, Dag A. H.; **Bjørk, Joakim**; Graven, Olaf H.

From RGB led laboratory to servomotor control with websockets and IoT as educational tool
Carro Fernandez, German; **Castro Gil, Manuel**; Mur Perez, Francisco; Sancristobal Ruiz, Elio

A Remote Solar Photovoltaic Laboratory based on the iLabs Shared Architecture (ISA)
Bomugisha, Denis; Kyomugisha, Rebeccah; Mwikirize, Cosmas

Real-time and turn-based biology online experimentation
Hossain, Zahid; Chung, Alice; **Riedel-Kruse, Ingmar**

A New Implementation of the iLab Service Broker
Colbran, Sam; Schulz, Mark

The use of telecommunication technologies in education network
Sakhapov, Rustem Lukmanovich; Absalyamova, Svetlana Germanovna

Opportunities and Challenges in Virtual Reality for Remote and Virtual Laboratories
Callaghan, Michael James; Gómez Eguíluz, Augusto; McLaughlin, Gavin; McShane, Niall

3:00pm - **3:30pm**	**Coffee/Tee Break** Location: **Foyer**
3:30pm - **4:30pm**	**IAOE Annual General Meeting** Location: **Ruam Rudee 1**
3:30pm - **5:00pm**	**3A: Full Papers** Location: **Ruam Rudee Ballroom** Chair: **Vinod Kumar**, IIT Roorkee

Google Cloud and Analysis of Realtime Process Data
Langmann, Reinhard

Real-Time ECG Acquisition Under Incorrect Electrode Positions
Kumar, Vinod; Kashyap, Vikas

Weblab of a Control Experiment in a Newborn Baby Incubator
Bauer, Karine; **Mendes, Luciano Antonio**

A Low-cost Remote Laboratory of Field Programmable Gate Arrays
Quang, Huy Nguyen; **Hoang, Thang Manh**

4:30pm - **5:30pm**	**GOLC Annual General Meeting** Location: **Ruam Rudee 1**
7:00pm - **9:00pm**	**Conference Dinner** Location: **Ruam Rudee Ballroom** Announcement of the GOLC Online Laboratory Award Winner and iJOE Best Paper Award

Date: Friday, 27/Feb/2015

9:00am - **10:00am**	**Keynote Session II** Location: **Ruam Rudee Ballroom** Chair: **Doru Ursutiu**, "University ""Transilvania"" of Brasov, Romania" The Speaker: Dr. Vinod Kumar is Dean of Faculty Affairs and Professor of Electrical Engineering Department of IIT Roorkee, INDIA. He received his Engineering degree from Punjab Engineering College, Chandigarh, M.Tech. & Ph.D. from IIT Roorkee, India (erstwhile University of Roorkee). He has many academic awards, distinctions and scholarships...

Biomedical Virtual Workbench
Kumar, Vinod

10:00am - **10:30am**	**Coffee/Tee Break** Location: **Foyer**

10:30am
-
12:00pm

4A: Full Papers
Location: **Ruam Rudee Ballroom**
Chair: **Kemi Jona**, Northwestern University

Designing Remote Labs for Broad Adoption
Jona, Kemi; Walter, Ashley D.; Pradhan, Sachin N.

Smart Device Specifications for remote labs
Salzmann, Christophe; Govaerts, Sten; Halimi, Wissam; Gillet, Denis

Develop a Scheduler and Federated Authentication for Remote Laboratory Access
Wang, Ning; Chen, Xuemin; Song, Gangbing; Parsaei, Hamid

Co-Designing Online Experimentation for Teaching STEM
Bochicchio, Mario A.; Longo, Antonella; Zappatore, Marco

4B: Full Papers
Location: **Ruam Rudee 1**
Chair: **Zorica Nedic**, University of South Australia

Virtual and Remote triggered Industrial Automation Labs: Collaboration case study
Diwakar, Anita S.; Noronha, Santosh; Agashe, Sudhir

DC Motor Control in a 3D Real-Time Virtual Laboratory Environment
Lei, Zhongcheng; Hu, Wenshan; Zhou, Hong; Zhong, Liang

Development of an Online Renewable Energy Laboratory
Nedic, Zorica; nafalski, Andrew

An Innovative Educational Concept of Teleworking in the High Precision Metrology Laboratory to Develop a Model of Implementation in the Advanced Manufacturing Industry
Durakbasa, Numan M.; Bauer, Jorge M.; Bas, Gokcen; Riepl, David

12:00pm
-
1:00pm

Lunch Break
Location: **Restaurant (8th Floor)**

1:00pm
-
2:00pm

Invited Speaker Session
Location: **Ruam Rudee Ballroom**
Chair: **Abul Azad**, Northern Illinois University

This presentation will show how new global activities and technology are impacting Engineering Education. New ways of teaching, such as MOOCs and blended learning, as well as different kinds of learning analytics, assessment and engagement will be analyzed and connected. The evolution of teaching through face-to-face, distance learning and now...

Impact of Technology and Globality in Engineering Education
Castro, Manuel

2:00pm
-
3:30pm

5A: Full Papers
Location: **Ruam Rudee Ballroom**
Chair: **Antonella Longo**, University of Salento - Department of Innovation for engineering

Low-cost Multi-Channel Analog Sampler and Signal Generator for Remote Laboratories
Samuelsen, Dag A. H.; Graven, Olaf H.

Introductory Laboratories in Semiconductor Devices using the Digilent Analog Discovery
Grout, Ian; Bin A'ain, Abu Khari

Towards Massive Open Online Laboratories: an Experience about Electromagnetic Crowdsensing
Longo, Antonella; Zappatore, Marco; Bochicchio, Mario Alessandro

The Challenge of Specimen Handling in Remote Laboratories (for engineering education)
Sadiki, Abdelhakim; Ortelt, Tobias R.; Pleul, Christian; Becker, Christoph; Chatti, Sami; Tekkaya, A. Erman

5B: Full Papers
Location: **Ruam Rudee 1**
Chair: **Pablo Orduña**, DeustoTech, University of Deusto

Integration of Remote and Virtual Laboratories in the Educational Process
Wuttke, Heinz-Dietrich; Hamann, Marcus; Henke, Karsten

Developing Virtual Lab to support the Computer Science Education in Moodle
Al-Khanjari, Zuhoor Abdullah; Al-Roshdi, Yusra

Students' Performance Evaluation in Online Education System Vs Traditional Education System
Jayasinghe, Udeni; Dharmaratne, Anuja; Atukorale, Ajantha

Leveraging motivation of learners to practice: a remote laboratory dedicated to system and network administration
Broisin, Julien; Venant, Rémi; Vidal, Philippe

3:30pm
-
5:00pm

6A: Full Papers
Location: **Ruam Rudee Ballroom**
Chair: **Doru Ursutiu**, "University ""Transilvania"" of Brasov, Romania"

Supporting Access to STEM Subjects in Higher Education for Students with Disabilities using Remote Laboratories
Grout, Ian

Iterative Pattern for Remote Laboratories Embedding in Educational Process
Tabunshchyk, Galyna; Arras, Peter; Henke, Karsten; Van Merode, Dirk; Parkhomenko, Anzhelika

Powerful Technologies Together for Engineering Education (PTT for EE)
Ursutiu, Doru; Samoila, Cornel; Kane, Patrick; Altoe, Filipe

The Bibliographic Reference Collection GRC2014 for the Online Laboratory Research Community
Zappatore, Marco; Longo, Antonella; Bochicchio, Mario Alessandro

VISIR - Microcontroller Extensions (MCE)
Fischer, Thomas; Scheidinger, Julia

6B: Special Session - Remote Experimentation for Research Based Teaching: Anywhere, Anytime
Location: **Ruam Rudee 1**
Chair: **Franz Schauer**, Tomas Bata University in Zlin, Faculty of Applied Informatics

Node.js Based Remote Control of Thermo-optical Plant
Zakova, Katarina; Bosak, Tomas

INCLINE – the remote experimental kit for research based teaching in the class
Schauer, Franz; Ozvoldova, Miroslava; Tkac, Lukas; Krbecek, Michal

REMLABNET II - open remote laboratory management system for university and secondary schools research based teaching
Schauer, Franz; Krbecek, Michal; Gerza, Michal; Palka, Lukas; Beno, Pavel; Spilakova, Petra

Online Use of OpenModelica via Web Service
Zakova, Katarina

5:00pm
-
5:30pm **Farewell Coffee/Tee**
Location: **Foyer**

Overview > Conference Agenda   Print View 🖨 ⬆

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