Key Competencies in Informatics and ICT: Implications and Issues for Educational Management

In our rapidly changing world it is considered more and more important not only to be an expert in the field in which you graduate but also to master upcoming new issues and problems, taking forward developments and requirements in the modern world and in the job market.

Key digital competencies and skills are currently being placed centre-stage and are highlighted more and more in school and university programmes. There are implications for their management in educational systems and for learning, and there are issues of how to do this most effectively.

Managing key digital competencies and skills may be considered from different perspectives, and important implications and issues will be discussed at this conference:

- What are the key digital competencies and skills for learners in different (formal, informal, non-formal) educational settings?
- How will key digital competencies and skills be managed in different educational settings?
- What management issues are currently arising, and which approaches are being taken to address these?
- What tools enable us to measure such competencies and skills?
- What are the roles and developments of data visualization systems?
- What other skills are needed alongside digital skills in order to equip young people for training and employment and life practices?
- What key digital competencies and skills does the job market expect?
- How will key digital competencies and skills be developed and used in lifelong and intergenerational learning practices?

The conference will be organised into sessions dedicated to different aspects of these questions from the perspective of compulsory education, university education, teacher training and educational management, and training and employment.

The conference will provide a forum for researchers and lecturers as well as school practitioners.

Conference activities
Invited speakers, symposia, and poster/system presentations relating to implications and issues on the main conference theme will accompany regular presentations of papers. Proposals for each of these session types are invited. All submissions will be refereed according to international standards; further submission guidelines as well as evaluation criteria will be available on the conference homepage.

Papers
A full paper is a standard academic research paper of, at most, 12 pages. A short paper can be up to 5 pages long and is an academic paper, a position paper, a case study, a policy paper or a national perspective. Symposia papers should be submitted as long or short papers.

Symposia
A symposium is a collection of related papers on a central theme of the conference. Proposals for symposia outline the theme, the participants, and an abstract of each of their papers.

Posters and system presentations
Ongoing research, projects, hard- and software developments, and theses on selected research activities on the conference theme may be presented and discussed during the conference. Participants should submit a short description (maximum 2 pages) of the exhibit as well as technical requirements.

Members of IFIP TC3 – WG 3.7 working group, in association with other WGs, will run this element of the conference.

The conference, the 11th for the Information Technology in Educational Management working group, builds on and develops key points and concerns raised in the conferences immediately preceding this one:

- The next generation of information technology in education management, held in Bremen, Germany in 2012.
- Information technology and managing quality education, held in Kasane, Botswana in 2010.
- Evolution of information technology in education management, held in Darwin, Australia in 2008.

Conference publication
Accepted full and short papers will be peer-reviewed, double blind, and will be selected, following revision after the conference, for inclusion within edited post-conference proceedings.

Preliminary schedule

**Tuesday, 2014, July 1**
15.00  Invited Lecture (shared with other WGs)
16.30  Paper Sessions/Symposium
18.00  Reception (shared with other WGs)

**Wednesday, 2014, July 2**
9.00   Invited Lecture (shared with other WGs)
10.30  Paper Sessions/Symposium
13.00  Paper Sessions/Symposium
15.00  Paper Sessions/Symposium
17.00  Guided Sightseeing (shared with other WGs)
19.00  Conference Dinner (shared with other WGs)

**Thursday, 2014, July 3**
10.00  Invited Lecture (shared with other WGs)
11.30  Paper Sessions/Symposium
14.00  Paper Sessions/Symposium
16.00  Excursion (shared with other WGs)

**Friday, 2014, July 4**
9.30   Paper Sessions/Symposium
11.30  Invited Lecture (shared with other WGs)
13.00  End of Conference (shared with other WGs)
Venue
Potsdam, adjacent to Germany’s capital Berlin, is considered one of the most beautiful cities of Germany. Surrounded by lakes, rivers and forests, with its many palaces and gardens, the capital of Brandenburg is an inspiring place for living, studying and working. The Palace Sanssouci, once the summer residence of Frederick the Great, the large park with its Church of Peace based upon Italian models, the Roman Baths and the Orangery Palace create a Mediterranean atmosphere. The architecture of the city reveals many different European influences. There are, for instance, the Dutch Quarter with its shops and restaurants, the Russian Colony Alexandrowka with its orchards or the Slavic Weavers’ Quarter of Babelsberg. Potsdam is a lively city marked by many cultures. For more than a hundred years, it has been also home to the sciences. Proof of this is the historical ensemble of research buildings on the Telegrafenberg with the large refracting telescope as well as the Einstein Tower from 1920 that houses a solar telescope.

Since its founding 20 years ago, the University of Potsdam has excelled in research and teaching and is well positioned both on a national and international scale. Embedded in Potsdam’s unique cultural landscape, in close proximity to the Prussian palaces and gardens, the still relatively young University of Potsdam has established itself at three locations. The Institute of Computer Science is in Griebnitzsee, not far from Babelsberg with its historical film studios. Here the conference will take place.

For enjoying nightlife, Berlin is a 20 minutes ride by train away and open 24/7. Expect “Last orders, please” at half past eight but not at 20:30.

Travel and Accommodation
The conference location has direct access to urban and regional trains as well as local buses via stop “Griebnitzsee”. International participants will arrive at one of Berlin’s airports followed by a 50 minute travel by airport bus and/or urban railway (S-Bahn). There are several hotels within walking distance of the conference site.

Program Committee (to be finalised)
Torsten Brinda, Univ. of Duisburg-Essen (DE) (chair)
Don Passey, Lancaster University (UK) (co-chair)
Andreas Breiter, Univ. of Bremen (DE) (co-chair)
Arthur Tatnall, Victoria University (AU)
Bill Davey, RMIT University, Melbourne (AU)
Adrie Visscher, University of Twente (NL)
Chris Thorn, Carnegie Foundation (US)

Organizing Committee
Andreas Schwill (chair)
Sabine Hübner (conference secretariat)
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Deadlines
Full/short paper submissions: Feb 19, 2014
Proposals for symposia, workshops and posters/system presentations: Feb 19, 2014
Notification of acceptance/rejection: March 24, 2014
Revised papers due: April 15, 2014
Early bird registration 1: April 1, 2014
Early bird registration 2: May 1, 2014
Conference: July 1-4, 2014
Final papers due: Aug 31, 2014

All photos by Karla Fritze