Guten Tag and Welcome to Klagenfurt!

We are very happy to present you this program booklet of the 27th IEEE Conference on Software Engineering Education and Training (CSEE&T 2014), held at the Alpen-Adria-Universität Klagenfurt, Austria.

The conference takes place from Wednesday, April 23rd until Friday, April 25th 2014.

This program booklet contains all the basic information you might need about the conference and its side events. Maps and informations about events are provided as well as detailed schedules of talks and sessions.

If you have any questions regarding the conference, workshops or the program in general, feel free to ask any of our staff members. We will be happy to answer any questions and provide the information you require. The whole crew put a lot of effort into organizing this event and we hope that you will enjoy the conference and your stay in Klagenfurt.

Explicitly, we want to thank all members of the committees for their dedication and effort. A special thanks also goes to the academic and corporate sponsors and supporters.

Roland Mittermeir, Andreas Bollin and Elke Hochmüller
Conference Co-Chairs
## Conference Program - Overview

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Wednesday, April 23, 2014

ASEE&T Day 2014 Welcome, 08:45 - 09:00, HS B

ASEE&T Session I, 09:00 - 10:30, HS B; Chair: Eric Wong

- Experience of Teaching Executive Master’s Program in Software Engineering: Challenges, Lessons Learned, and Path Forward
  W. Eric Wong, University of Texas at Dallas, USA

- Self-Guided Learning Environment for Undergraduate Software Engineering
  Junhua Ding, East Carolina University, USA

- An Active Learning Module for an Introduction to Software Engineering Course
  Frank Ackerman, Montana Tech, USA

ASEE&T Session II, 11:00 - 12:30, HS B; Chair: Frank Ackerman

- The Impact of SWEBOK Version 3 on Software Engineering Education and Training
  Dick Fairley, S2EA, USA; Pierre Bourque, Ecole de technologie superieure, Canada; John Keppler, IEEE Computer Society, USA

- Top-10 Risks in Real-Client Software Engineering Class Projects
  Supannika Koolmanojwong, University of Southern California, USA

- Teaching Semantic Technologies as Part of a Software Development Program
  Andreas L. Opdahl, University of Bergen, Norway
Program Details

Workshop WS01 - Learning and Working Together as Prerequisites for the Development of High-Quality Software, 09:00 - 12:30, E.2.42
Organizers: Gabriele Frankl, Sofie Bitter and Bonifaz Kaufmann, Alpen-Adria-Universität Klagenfurt, Austria
- Improving Model-Based Collaboration by Social Media Integration
  Wolfgang Gaar, Egon Teiniker
- Win-for-All in Software Engineering Education: Balancing Social Dilemmas to Foster Collaboration
  Gabriele Frankl, Sofie Bitter, Bonifaz Kaufmann

Workshop WS02 - Technology-Driven Software Engineering Curriculum Development, 14:00 - 17:30, E.2.42
Organizers: Emanuel Grant, University of North Dakota, USA and Venky Shankararaman, Singapore Management University, Singapore
- Reshaping Software Engineering Education towards 2020 Engineers
  Inggriani Liem, Yudistira Asnar, Saiful Akbar, Adi Mulyanto, Yani Widyani
- Teaching Software Product Engineering in Undergraduate Computing Curriculum
  Y. Raghu Reddy, Kesav V. Nori
- Opportunities and Challenges in Using Competencies during Design and Delivery of Software Engineering Curriculum
  Venky Shankararaman, Joelle Ducrot

Tutorial (TUT), 14:00 - 17:30, HS B
- Combining Software Engineering Education and Empirical Research via Instrumented Real-Client Team Project Courses
  Barry Boehm, Supannika Koolmanojwong
Thursday, April 24, 2014

Welcome and Keynote I, 09:00 - 10:30, HS A
Chair: Laszlo Böszörmenyi

- How to Teach Programming
  Bertrand Meyer, ETH Zurich, Switzerland and ITMO, Saint Petersburg, Russia

Paper Session I - Requirements, 11:00 - 12:20, HS B
Chair: Jörg Mühlbacher

- Industrial Case Studies in Graduate Requirements Engineering Courses: The Impact on Student Motivation (ARP)
  Marian Daun, Andrea Salmon, Bastian Tenbergen, Thorsten Weyer

- Using Business Process Models to Foster Competencies in Requirements Engineering (ARP)
  Yvonne Sedelmaier, Dieter Landes

- Teaching Modeling Using Umple: Principles for the Development of an Effective Tool (STP)
  Timothy Lethbridge

Panel Session - Industrial Needs and Educational Response, 11:00 - 12:30, HS A

- Mike Barker, Nara Institute of Science and Technology, Ikoma, Japan
- Barry Boehm, University of Southern California, Center of Software Engineering, U.S.
- Markus Clermont, Google, Zürich, Switzerland
- Marcus Hassler, ECONOB, Klagenfurt, Austria
- Roland T. Mittermeir, Alpen-Adria Universität Klagenfurt, Austria
Program Details

Workshop WS03 - Workshop on Improving the CSEE&T Submission Process, 14:00 - 17:30, E.2.42

- Workshop on Improving the CSEE&T Submission Process
  Mike Barker

Paper Session II - Educational Strategy, 14:00 - 15:30, HS B
Chair: Elke Hochmüller

- Cloud Computing Education Strategies (ARP)
  Hongyu Pei Breivold

- The Flipped Classroom Experience (STP)
  Pang Nai Kiat, Yap Tat Kwong

- The Synergy of Engineering and Research Aspects in Software Engineering Education (STP)
  Abir Benabid, Ghada Houdhoud

- Increasing the Effectiveness of Teaching Software Engineering: A University and Industry Partnership (TER)
  Aldo Dagnino

Paper Session III - Design to Validation, 16:00 - 17:00, HS B
Chair: Andreas Bollin

- InspectorX: A Game for Software Inspection Training and Learning (ARP)
  Henrique Alberto Brittes Pötter, Marcelo Schots, Leticia Duboc, Vera Werneck

- Teaching Analysis of Software Designs Using Dependency Graphs (ARP)
  Kevin Steppe
Friday, April 25, 2014

Keynote II, 09:00 - 10:00, HS B; Chair: Mike Barker

- The Times, They Are a Changing
  Dennis Frailey, Raytheon Company and SMU Dallas, USA

Paper Session IV - Educational Style, 10:30 - 12:00, HS B
Chair: Tony Cowling

- Observations of a Software Engineering Studio: Reflecting with the Studio Framework (ARP)
  Christopher Bull, Jon Whittle

- Enhancing the Software Engineering Curriculums: A Case Study of the Jordanian Universities (ARP)
  Samer Hanna, Hayat Jaber, Fawze Abu Jaber, Tarek Al Shalaby, Ayad Almasalmeh

- Automated Mentor Assignment in Blended Learning Environments (ARP)
  Chris Boesch, Kevin Steppe

Paper Session V - Project Management, 13:30 - 15:00, HS B
Chair: Timothy Lethbridge

- Improving Teamwork in Students Software Projects (ARP)
  Maíra Marques Samary, Sergio Ochoa

- An Experiment on Teaching Coordination in a Globally Distributed Software Engineering Class (ARP)
  Martin Nordio, H.-Christian Estler, Bertrand Meyer, Nazareno Aguirre, Elisabetta Di Nitto, Rafael Prikladnicki, Anthony Savidis
Program Details

- **The Impacts of Personal Characteristic on Educational Effectiveness in Controlled-Project Based Learning on Software Intensive Systems Development (ARP)**
  Yusuke Yamada, Shota Inaga, Hironori Washizaki, Katsuhiko Kakehi, Yoshiaki Fukazawa, Shoso Yamato, Masashi Okubo, Teruhiro Kume, Manabu Tamaki

*Workshop Results, 13:30 - 15:00, HS C; Chair: Andreas Opdahl*

*Paper Session VI - Processes, 15:30 - 16:50, HS B*  
*Chair: Claudia Steinberger*

  Guoping Rong, He Zhang, Dong Shao

- **Teaching and Learning Agile Collaboration (ARP)**
  Martin Kropp, Magdalena Mateescu, Andreas Meier, Carmen Zahn

- **Enhancing Software Engineering Student Team Engagement in a High-Intensity Extreme Programming Course using Gamification (STP)**
  Bilal Sercan Akpolat, Wolfgang Slany

*Closing Session, 16:50 - 17:15, HS B*
Welcome Reception

The Welcome Reception takes place at Viktring Abbey which was established in 1142 by Cistercian monks.

The most notable abbot was John II of Viktring (1312-1346) who wrote “Liber certarum historiarum”, a famous late medieval chronicle. After being dissolved during the rationalist reforms of Emperor Joseph II in 1786, parts of the premises and lands of Viktring Abbey were sold at auction to the Moro brothers who erected a textile factory being in operation till 1967. In 1970, the Austrian government acquired the buildings and founded a secondary school there in 1977 which today is well known for its specialization in musical education.

The bus for Viktring Abbey will depart from the bus station at the University at 18:00. After a short tour around the monastery, there will be a reception in the Renaissance hall (including a little, but highly artistic surprise). On its return trip to the University (approx. departure at 20:30), the bus will also stop at several hotels.
Conference Dinner

The Conference Dinner, the Best Paper and the Nancy Mead Award 2014 Celebration will take place at the restaurant Loretto on the Maria Loretto peninsula of Lake Wörthersee.

The restaurant is within walking distance from the University campus. We will meet at 18:15 at the University main entrance. For those who don`t want to walk back a bus will be available.
There is a WiFi Internet Access for conference participants at the Alpen-Adria-Universität. For access to the network simply follow these steps:

1. Connect to the open WiFi network: „zid-connect“

2. Start your preferred browser and open: https://zid-connect.aau.at

3. Authenticate with:

   **Username/PWD**: <will be announced at the conference>

Location and Rooms

Seepark Hotel

Bus Stop (Nr. 81)

“Universität”

Main Entrance

Bus Nr. 81
from Krottendorf to City Center

and Main Train Station

Bus Nr. 81
from City Center
to Krottendorf

Registration Desk

Rooms for CSEE&T 2014

University Campus

Alpen-Adria-Universität Klagenfurt

Mensa
Building
(Lunch)

Rooms for CSEE&T 2014
Having arrived in Carinthia, it’s time to take a deep breath first and recharge your batteries. The heart of the Alps-Adriatic region and a place where three cultures meet, presents itself to its guests with sincerity, a Mediterranean charm, genuine hospitality and a zest for life which is infectious and, among many other factors, determines the quality of life and quality of holidays in our sunny province. Here you will immediately notice that work and enjoyment go hand in hand. Book your next event here.

WWW.CONVENTION.KAERNTEN.AT
27th IEEE Conference on Software Engineering Education and Training

Conference Program

April 23rd - 25th, 2014
Klagenfurt, Austria