Proposal for a joint IFIP TC8 (in cooperation with TC5 and TC 12) Doctoral Summer School in Vietnam to be held at University of Hue

Envisaged date: April 08-11, 2015
Proposed title: Research Challenges in Web Science and Semantic Modelling

Planned format for each of the topic areas covered:

IFIP-TC8 PhD Summer School (in cooperation with TC5 and TC 12) in Vietnam provides a training course for PhD students and researchers working in the field of Information Systems. There will be morning lectures given by international professors followed by afternoon group work. The 4-day intensive course provides the opportunity for participants to interact with, learn and get some advice from these highly experienced professors. The participants can also meet and network with other researchers working in the same field. IFIP-TC8 PhD Summer School in Vietnam during April 8-11, 2014 focuses on “Research Challenges in Web Sciences and Semantic Modelling” with the following teaching structure of each day:

- Keynote-style motivation and introduction by a professor: 90 minutes
- Student presentations of PhD topics: 180 minutes
- Workshops and breakout sessions: 120 minutes
- Plenary discussion: 60 minutes

IFIP TC8 Doctoral Summer School planned topic areas:
- Research Trends in Semantics and Interoperability
- Opportunities and Challenges of Linked Open Data
- Natural Disaster Resilience in Information Systems
- Challenges for Mining the Web

Description:

The thematic focus is on Challenges in Web Science and Semantic Modelling with important economic and societal implications for Vietnam and the ASEAN region. The Use of Open Government Data and the Web for Sustainability, e-Commerce and the Management of disaster relieve (especially concerning the impact of flood and other natural disasters on the national and global economic wellbeing) is a guiding principle for the lecture themes, lectures, workshops and group work of this summer school. It also reflects the societal priorities of the Vietnamese Information Technology Faculties and the emerging problems of supporting the rapidly expanding health care and ageing population in Vietnam where this trend is even more critical than in Europe and North America.

Local staff currently supervising PhD theses will join the research discussions and international and Vietnamese university lecturers together will help the participating
students to integrate the presented materials into their research. The possibility of joined supervision and external examination of some of the thesis will be followed up in-depth and funding opportunities will be sought for sending selected students to Europe or Australia for a period of 4 weeks to 6 months.

Participating and presenting students will especially appreciate feedback on methodological aspects of their thesis. Semantic aspects, linked open data and resilience concepts provide a lot of encouragement for embedding advanced research ideas into the different PhD-topics. Intensive discussions on research approaches, selecting topics of research, detecting state of the art, and finally for publishing papers and thesis will enable participating students to better reflect their own research and to incorporate advanced methodological approaches.

The topic areas will be coordinated by the following professors:

- Research Trends in Semantics and Interoperability: **Erich Neuhold** (University of Vienna and Technical University of Darmstadt)
- Challenges for Mining the Web and Opportunities and Challenges of Linked Open Data: **A Min Tjoa** (TU Wien)
- Challenges for Resilience Information Systems: **Gerald Quirchmayr** (University of Vienna and University of South Australia)
- Challenges for Mining Information from Multiple Heterogeneous Information Sources Including Structured and Unstructured Information: **Tharam Dillon** (La Trobe University, Melbourne)

Participants:
- PhD students
- MSc students in the final stages of their thesis with an interest in PhD studies
- Junior lecturers

**Formal opening:** April 8th by the President of Hue University