

## Workshop on CERES: Modern Experience on Young Researchers Organization

The workshop CERES: Modern Experience on Young Researcher's Organization was held at University of Žilina on July 5-7. This workshop was organized in frames of conference on Information and Digital Technologies (IDT 2017) in accordance with WP 3.3. *Intense training of teachers and young researchers* of TEMPUS CERES project (ref.no.: 544137-TEMPUS-1-2013-1-SK-TEMPUS-JPHES). Conference on IDT 2017 provides a forum for presentation and discussion of research contributions covering the theories and methods in the field of information and digital technologies, and their application to a wide range of industrial, civil and social sectors and problem areas. IDT 2017 is also an opportunity for teachers, researchers, practitioners, academics and engineers to meet, exchange ideas, and gain insights from each other. IDT 2017 offers a multidisciplinary platform to address the technological, societal and other aspects of information systems.



The main aim of the CERES workshop was to bring together young researchers, teachers from academy as well as industry working in all areas of information technologies. We tried to create good atmosphere and conditions for actual and interesting presentations, discussions and cooperation. Our participants have got possibility to joint into other workshops under the conference: (a) New Frontier Information Digital Technology: From Logic Design To Real-World Applications; (b) Dynamical systems and real world applications; (c) Biomedical Technologies and (d) Reliability Technologies.



More than 50 works of workshop participants and experts were presented. Some of presentations of young researchers were discussed at 4 oral workshop's sections and 11 conference's sections. Some of them were included into the well-known IEEE Explorer repository



(<http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=8007434>). It guarantees

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increasing of potential of workshop's participants. In the plenary sessions, distinguished invited experts given a review of the future perspectives in their research areas: reliability, medical informatics, logic design and information technologies. In particular, next invited lectures were been:

- Prof. Frank Coolen, (Durham University, UK) *The Survival Signature for System Reliability*,
- Prof. Radim Bris (Technical University of Ostrava, Czech Republic). *Stochastic Ageing and Maintenance Models for Unavailability Quantification of Complex Multi-Component Systems*
- Prof. Max A. Viergever (University Medical Center Utrecht, Netherlands). *Challenges in Medical Image Analysis*,
- Prof. Claudio Moraga (Technical University of Dortmund, Germany). *Selected Aspects of Multiple-valued Bent Functions*
- Prof. Charles El-Nouty (Universite Paris 13, France). *On the mixed integrated fractional Brownian motion*
- Dr. Michal Varga (University of Žilina, Slovakia). *Application of diverse techniques and paradigms in pedestrian movement and behaviour simulator, etc.*

The organizing team has organized several cultural and social events that were held in pleasant atmosphere. Participants visited to two famous Slovakian castles in Trenčín and Strečno.



The Trenčín castle had seen below its walls hostile armies of Czech and Polish kings, Tatar hordes, imperial landsknechts, soldiers of the Turkish sultan, Tatars of the Khan of Krym, companies of the Duke of Sesia, and Kurucs and Labanec armies. However, it has never been conquered by a direct attack. The oldest stone construction of the castle is the pre-Romanesque rotunda, which dates back to Great Moravia period (at the end of 9th century).

The Strečno Castle is a ruin of a medieval castle of an irregular plan located in northern Slovakia, 12 km east of Žilina. The castle stands on a 103-metre-high cliff above the river Váh. The first recorded mention of the stone castle is from 1316.



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Our team hopes that next workshop on CERES will be organized at the IDT conference too. We sure that this CERES workshop will be good start of participants in their research career. It will give impulse to involve young researchers and to increase their potential in future.

