

Preface

The 17th annual conference ITAT took place in Hotel Martinské hole, Slovakia, at an altitude of 1223 m, from 22 to 26 September 2017.

ITAT, meaning Information Technologies — Applications and Theory, is a place where young researchers, doctoral students and their teachers meet every year to present their results from the various fields of computer science. They come mainly from the Czech and Slovak republic, but the conference is open to participants from other countries as well. In addition to the professional program, much time is devoted to informal discussions, and above all to the formation and maintenance of friendly relations between scientists from the both countries. The Slovak mountains make a perfect background for that. The 2017 conference consisted of the main track and 3 workshops:

- CIDM (Computational Intelligence and Data Mining)
- SloNLP (Slovenskočeský NLP workshop)
- W3-ChaT (WWW-Challenges and Trends)

All the 37 submitted papers were reviewed by two or more independent reviewers. The proceedings contain 34 scientific papers and abstracts of four invited talks:

Jiří Hana (Geneva): *Text Generation in Natural Languages*

Antoni Ligęza (AGH University of Science and Technology in Kraków, Poland): *Rules, Causality and Constraints. Model-Based Reasoning and Structural Knowledge Discovery*

Ostap Okhrin (Dresden University of Technology, Germany): *Estimations of the Hierarchical Archimedean Copula*

Lubomír Soukup (ÚTIA): *How Accurate Are Digital Maps?*

The conference was organized by Institute of Computer Science, The Faculty of Natural Sciences, P. J. Šafárik University, Košice, University of Žilina, Institute of Computer Science, The Academy of Sciences of the Czech Republic, Prague, The Faculty of Mathematics and Physics, Charles University, Prague Slovenská spoločnosť pre umelú inteligenciu (Slovak society for artificial intelligence). I would like to thank all organizers led by the conference spirit Peter Gurský, also to workshop organizers, program committee members, all anonymous referees, the invited speakers and authors of the submitted papers for contributing to the scientific program of ITAT 2017. Special thanks belong to our sponsor Profinit (<http://www.profinet.eu/>).

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Charles University, Prague
Chair of the Program Committee

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