Preface

Formal Concept Analysis is a method of analysis of logical data based on formalization of conceptual knowledge by means of lattice theory. It has proved to be of interest to various applied fields such as data visualization, knowledge discovery and data mining, database theory, and many others.

The International Conference "Concept Lattices and Their Applications (CLA)" is being organized since 2002 and its aim is to bring together researchers from various backgrounds to present and discuss their research related to FCA.

The Twelfth edition of CLA was held in Clermont-Ferrand, France from October 13 to 16, 2015. The event was jointly organized by the LIMOS laboratory, CNRS, and Blaise Pascal university, France.

This volume includes the selected papers and the abstracts of 5 invited talks. We would like to express our warmest thanks to the keynote speakers.

This year, there were initially 39 submissions, from which the Program Committee selected 20 papers which represents an acceptance rate of 51.2%.

The program of the conference consisted of five keynote talks given by the following distinguished researchers: Didier Dubois, Lhouari Nourine, Gabriella Pasi, Jan Ramon, and Takeaki Uno, together with twenty communications authored by researchers from 11 countries, namely: Austria, Czech republic, France, Germany, Kazakhstan, Republic of South Africa, Russia, Slovakia, Spain, Sweden, and Ukraine.

Each paper was reviewed by 3–4 members of the Program Committee and/or additional reviewers. We thank them all for their valuable assistance. It is planned that extended versions of the best papers will be published in a well-established journal, after another reviewing process.

The success of such event is mainly due the hard work and dedication of many people and a collaboration of several institutions. We thank the contributing authors, who submitted high quality works, we thank to the CLA Steering Committee, who gave us the opportunity of chairing this edition, and we thank the Program Committee, the additional reviewers, and the local Organization Committee. We are also thankful to the following institutions, which have helped the organization of the twelfth edition of CLA: Coffreo, IPLeanware, Axège, and Oorace.

We also thank the Easychair conference system as it made easier most of our administration tasks related to paper submission, selection, and reviewing. Last but not least we thank Jan Outrata, who offered his files for preparing the proceedings.

October 2015
<div align="right">Sadok Ben Yahia
Jan Konecny
Program Chairs of CLA 2015</div>