

Preface

Formal concept analysis has, for many years, laid claim to providing a formal basis for an applied lattice theory. With the many different formalisms and implementations, and their applications available today, this claim is stronger than ever, as witnessed by increasing amount and range of publications in the area.

The International Conference “Concept Lattices and Their Applications (CLA)” is being organized since 2002 with the aim of bringing together researchers working on various approaches for studying and practically applying concept lattices. The main aim of CLA is to bring together researchers (students, professors, engineers) involved in all aspects of the study of concept lattices, from theory to implementations and practical applications. As the diversity of the selected papers shows, there is a wide range of theoretical and practical research directions, ranging from algebra and logic to pattern recognition and knowledge discovery. The Tenth edition of CLA was held in La Rochelle, France from October 15th to October 18th, 2013. The event was organized and hosted by the Laboratory L3i, University of La Rochelle.

This volume includes the selected papers and the abstracts of 4 invited talks. This year there were initially 37 submissions from which 22 included papers were accepted as full papers and 5 as short papers. Thus, the program of the conference consisted of four keynote talks given by the following distinguished researchers: Ralph Freese, Bart Goethals, Michel Grabisch and Vincent Duquenne, together with twenty-seven communications, including the full and short papers, authored by researchers from thirteen countries (Belgium, Chile, Cyprus, Czech Republic, Djibouti, Estonia, France, Germany, Mexico, Russia, Slovakia, Spain and USA).

The papers were reviewed by members of the Program Committee with the help of the additional reviewers listed overleaf. We would like to thank them all for their valuable assistance. It is planned that a selection of extended versions of the best papers will be published in a renowned journal, after being subjected again to a peer review.

The success of such an event is mainly due to the hard work and dedication of a number of people, and the collaboration of several institutions. We want to thank the contributing authors, who submitted high quality works, to acknowledge the help of members of the CLA Steering Committee, who gave us the opportunity of chairing this edition, and to thank the Program Committee, the additional reviewers, and the local Organization Committee. All of them deserve many thanks for having helped to attain the goal of providing a balanced event with a high level of scientific exchange and a pleasant environment.

We would also like to thank the following institutions, which have helped the organization of the 10th CLA International Conference: Region of Poitou-Charentes,

Department of Charente Maritime, City of La Rochelle and University of La Rochelle.

Last but not least, most of our bureaucratic tasks related to paper submission, selection, and reviewing have been minimized thanks to the EasyChair conference system, and we should therefore not forget to mention its help after the list of “official sponsors”.

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Manuel Ojeda-Aciego
Jan Outrata
Program Chairs of CLA 2013