Report of the Scientific Committee

ORP³ Lambrecht, Germany, September, 21-26 2003

Horst W. Hamacher and Anita Schöbel
University of Kaiserslautern

1 Before the conference

Scientific committee

In April 2002 the following persons have been invited to be members of the scientific committee. All of them agreed.

Scientific Committee	
Valerie Belton	Glasgow
Rainer E. Burkard	Graz
Denis Bouyssou	Paris
Yair Censor	Haifa
Matthias Ehrgott	Auckland
Paco Fernández	Seville
Horst W. Hamacher	Kaiserslautern (chair)
Francesco Maffioli	Milan
Wlodzimierz Ogryczak	Warsaw
Frank Plastria	Brussels
Serpil Sayin	Istanbul
Zilla Sinuany-Stern	Beer-Sheva
Anita Schöbel	Kaiserslautern
Jørgen Tind	Copenhagen

Submission of papers

The first call for papers was announced in October 2002 with March 1st as deadline for submission. In this announcement we made clear that ORP³ is

1

a conference for young researchers according to the rules already established in the first ORP³ meeting in Paris. Each author was asked to send a copy and an electronic version of his paper and a short CV.

On the request of some authors we extended the deadline until 15th of March. We finally received 32 full papers authored or co-authored by young researchers.

Refereeing process

Each paper was sent to one of the members of the scientific committee at the beginning of April. Each member of the scientific committee got up to three papers and was asked to write a report and to classify the papers into

| highly recommended |
| recommended |
| possible suitable |
| not suitable |

based on the standards of an international OR journal. Since the topic of one of the papers was very special, one external person was asked as an additional referee. The final decision about acceptance was made end of May. From the 32 submissions, the scientific committee accepted 24 papers, the rejection rate was hence 25%.

The accepted papers came from all over Europe, including papers from Austria , France, Germany, Hungary, Italy, Slovenia, Spain, Sweden, and Turkey. A detailed list of the accepted papers is given in Appendix 4.

The decision was communicated to the participants at the beginning of June. We also sent the referee reports to the participants asking for a final version until beginning of July. All participants sent their final versions in time. The whole refereeing process was communicated electronically.

Opponents

We assigned each accepted papers to one of the participants asking them to act as friendly, but critical opponent after the presentation of the paper at the ORP³ conference. The final versions of the papers were sent to the opponents at the beginning of July.

Invited speakers

We invited the following speakers to give tutorial talks.

- Valerie Belton, Glasgow: "Towards an integrated framework for modeling"

- Martine Labbé, Brussels: "On the generalized subgraph problem"

- Stefan Nickel, Saarbrücken: "Real world location problems"

We chose the tutorial speakers according to the variety of operations research methods ("soft" OR, integer programming, applications).

2 During the conference

Participants

Due to one late cancellation 23 young researchers presented their papers at the workshop. A list of the participants with their countries as well as the titles of their papers can be found in Appendix 5. Except the one cancellation, all participants were present during the whole conference, i.e., they arrived on Sunday and left on Friday.

Three members of the scientific committee attended (at least partially), and also two of the invited speakers (Martine Labbé and Valerie Belton) stayed a few days and took part in some of the events.

Book exhibition

We could exhibit books on operations research of the following publishers:

Book Exhibition
Birkhäuser
Kluwer
Shaker
Springer
Teubner
Vieweg

A representative of Kluwer (John Martindale) attended the conference to organize his book exhibition. He participated in some of our events and got into contact with the other participants.

Scientific program

The topics of the talks came from many different areas of operations research. In the scientific program, however, we arranged the papers in thematic sessions of 2 and 3 papers, see Appendix **??**. There were no parallel sessions. We allowed 25 minutes for each talk and 20 minutes for the discussion. The invited talks were scheduled on Monday, Tuesday, and Thursday and had a time slot of 90 minutes each, including discussion.

All selected authors attended the conference, with only one exception, meaning that 23 participants gave their talks. All talks were well prepared. After the talks, the opponents asked questions and chaired the discussion.

The sessions were all very well attended. We want to remark that most of the participants were also interested in subjects not directly related to their own research such that there was a fruitful working atmosphere.

Social program

On Wednesday the scientific program was terminated at 11:00 and we started for an excursion including a walk through the Palatinate forest, a visit of the famous Hambacher castle and a wine tasting. Moreover, on Monday evening a visit of the "Wurstmarkt" in Bad Dürkheim was offered.
The social events were well accepted and helped to create a friendly and relaxed atmosphere.

3   After the conference

Evaluation

After the conference, the received many enthusiastic e-mails. Mostly, the participants liked the friendly, non-competitive atmosphere and the variation of OR subjects. It was suggested that opponents should be asked to give a summary of the paper in their own words. Unfortunately there was not

enough interest in a proceedings volume, although we offered the possibility of a special issue in EJOR.

Thanks

4 Appendix A: Accepted Papers

- Bataar, Davatseren: New LP Model for Multileaf Collimators in Radiation Therapy

- Bianchissi, Nicola: Approximation algorithms for the vehicle routing problem with simultaneous pick-up and delivery

- Bozóki, Sandor: Solving the Least Squares Method problem in the AHP for 3x3 and 4x4 matrices

- Ceselli Alberto: A branch and price algorithm for the capacitated p-median problem

- Csizmadia, Zsolt: New criss-cross type algorithms for linear complementary problems with sufficient matrices

- Diallo, Madiagne: Generalized Parametric Multi-Terminal Flow Problems

- Dukanovic, Igor: Upper bound on the stability number of a graph

- Esswein, Carl: An efficient method for job shop scheduling with sequential flexibility

- Faik, Taoufik: Complexity of Determing the b-continuity Property of graphs

- Fanghänel, Diana: Regions of stability for convex functions

- Feyzioglu, Orhan: Designing component test plans for phased mission systems

- Guirchoun, Samuel: A polynomial reduction and a synthesis of complexity results for parallel machine problems with a server

- Kalinowski, Thomas: An algorithm for optimal multileaf collimator field segmentation with interleaf collision constraint

- Kjerrström, Jens: A model and application for the Resource Constrained Shortest Path problem with Reset Possibilities

- Lagares, Paula: Strategic Analysis and Relative Skill of The TV contest "Doble Juego"

- Lulli Guglielmo: Handling Uncertainty in the Air Traffic Management Problem

- Mancel, Catherine: A column generation approach for Earth observing satellites

- Ordin, Burak: On some properties of the solution of the dominating subset with minimal weight problem

- Ozana, Marek: Large Scale Airline Crew Rostering Problems in Practice

- Ruiz-Garcia, Rubén: Solving the Flowshop Scheduling Problem with Sequenze Dependent Setup Times using Advanced Metaheuristics

- Tercinet, Fabrice: e-BaB: an exact algorithms generator for scheduling problems

- Tiedemann, Stephan: Stochastic Integer Programs with Conditional Value-at-Risk: Structure, Stability, and an Algorithm

- Tjandra, Stephanus: Earliest Arrival Flows with Time-Dependent Data

- Wiegele, Angelika: Semidefinite relaxations for sparse max-cut problems

5 Appendix B: Participants

Baatar, Davaatseren Department of Mathematics, University of Kaiserslautern, 67653 Kaiserslautern, Germany, baatar@mathematik.uni-kl.de

Barreiro, Paula Lagares Department of Statistics and Operations Research, University of Sevilla, 41012 Sevilla, Spain, lagares@us.es

Belton, Valerie Department of Management Science, University of Strathclyde, G11XQ Glasgow, Scotland, val@mansci.strath.ac.uk

Bianchessi, Nicola Department of Information Technologies, University of Milan, 26013 Crema, Italy, nbianchessi@crema.unimi.it

Bozóki, Sándor Laboratory and Department of Operations Research and Decision Systems, Computer and Automation Research Institute, 1518 Budapest, Hungary, bozoki@oplab.sztaki.hu

Bunke, Florentine Department of Mathematics, University of Kaiserslautern, 67653 Kaiserslautern, Germany, flobunke@mathematik.uni-kl.de

Ceselli, Alberto Department of Information Technologies University of Milan, 26013 Crema, Italy, ceselli@dti.unimi.it,

Csizmadia, Zsolt Department of Operations Research, Eotvos Lorand University, 1117 Budapest, Hungary, csisza@cs.elte.hu

Diallo, Madiagne Laboratoire PriSM, Université de Versailles, 78035 Versailles, France, Madiagne.Diallo@prism.uvsq.fr

Ehrgott, Matthias Department of Engineering Science, The University of Auckland, 92019 Auckland, New Zealand, m.ehrgott@auckland.ac.nz

Esswein, Carl Laboratoire d'Informatique - Ecole Polytechnique de l' Université de Tours, 37200 Tours, France, carl.esswein@etu.univ-tours.fr

Faik, Taoufik Laboratoire de Recherche en Informatique (LRI), Université de Paris Sud, 91405 Orsay Cedex, France, tfaik@lri.fr

Fanghänel, Diana Fakultät für Mathematik und Informatik, TU Bergakademie Freiberg, 09596 Freiberg, Germany, difang@math.tu-freiberg.de

García, Rubén Ruiz Department of Applied Statistics, Operations Research and Quality, Polytechnic University of Valencia, 46021 Valencia, Spain, rruiz@eio.upv.es

Ginkel, Andreas Department of Mathematics, University of Kaiserslautern, 67653 Kaiserslautern, Germany, ginkel@itwm.fhg.de

Guirchoun, Samuel Laboratoire d'Informatique - Ecole Polytechnique de l' Université de Tours, 37200 Tours, France, samuel.guirchoun@etu.univ-tours.fr

Guta, Berhanu Department of Mathematics, University of Kaiserslautern, 67653 Kaiserslautern, Germany, guta@mathematik.uni-kl.de

Hamacher, Horst W. Department of Mathematics, University of Kaiserslautern, 67653 Kaiserslautern, Germany, hamacher@mathematik.uni-kl.de

Hennes, Holger Department of Mathematics, University of Kaiserslautern, 67653 Kaiserslautern, Germany, hennes@mathematik.uni-kl.de

Igor, Djukanovic Faculty of Economics and Business, University of Maribor, 2000 Maribor, Slovenia, igor.mat@uni-mb.si

Jayasundara, Mangalika Department of Mathematics, University of Kaiserslautern, 67653 Kaiserslautern, Germany, jayasund@mathematik.uni-kl.de

Kalinowski, Thomas Department of Mathematics, Universit"at Rostock, 18051 Rostock, Germany, thomas.kalinowski@stud.uni-rostock.de

Kjerrström, Jens Department of Research and Development, Carmen System AB, SE-41103 Göteborg, Sweden, Jens.Kjerrstrom@carmensystems.com

Labbé, Martine Optimization, Institute de Statistique et de Recherche Opérationnelle (ISRO), Université Libre de Bruxelles, 1050 Brussels, Belgium, mlabbe@smg.ulb.ac.be

Lulli, Guglielmo Department of Probability, Statistics, and Applied Probability, University of Rome "La Sapienza", 00185 Rome, Italy, guglielmo.lulli@uniroma1.it

Mancel, Catherine Laboratoire d'Analyse et d'Architecture des Systèmes - Centre National de la Recherche Scientifique (LAAS-CNRS), 31077 Toulouse Cedex 4, France, cmancel@laas.fr

Martindale, John Kluwer Academic Publishers, 101 Philip Drive, Assinippi Park, Norwell, MA 02061, USA, jmartindale@wkap.com

Nickel, Stefan Operations Research and Logistics, Saarland University, 66123 Saarbrücken, Germany, s.nickel@wiwi.uni-sb.de, and Optimization Department, Fraunhofer Institut für Techno- und Wirtschaftsmathematik (ITWM), 67653 Kaiserslautern, Germany, nickel@itwm.fhg.de

Ordin, Burak Department of Mathematics, Ege University, 35100 Izmir, Turkey, bordin@sci.ege.edu.tr

Orhan, Feyzioglu Department of Industrial Engineering, Galatasaray University, 34357 Istanbul, Turkey, ofeyzioglu@gsu.edu.tr

Ozana, Marek Department of Research and Development Crew Rostering, Carmen System AB, 41103 Göteborg, Sweden, marek.ozana@carmensystems.com

Perea, Federico Department of Statistics and Operations Research, University of Sevilla, 41012 Sevilla, Spain, perea@us.es

Ruzika, Stefan Department of Mathematics, University of Kaiserslautern, 67653 Kaiserslautern, Germany, ruzika@mathematik.uni-kl.de

Schöbel, Anita Department of Mathematics, University of Kaiserslautern, 67653 Kaiserslautern, Germany, schoebel@mathematik.uni-kl.de

Scholl, Susanne Department of Mathematics, University of Kaiserslautern, 67653 Kaiserslautern, Germany, sscholl@mathematik.uni-kl.de

Schwarze, Silvia Department of Mathematics, University of Kaiserslautern, 67653 Kaiserslautern, Germany, schwarze@mathematik.uni-kl.de

Tenfelde-Podehl, Dagmar Institut für Mathematik B, Technisch-Naturwissenschaftliche Fakultät, Technische Universität Graz, 8010 Graz, Austria, tenfelde@opt.math.tu-graz.ac.at

Tercinet, Fabrice Laboratory of Computer Science, University of Tours, 37200 Tours, France, fabrice.tercinet@etu.univ-tours.fr

Tiedemann, Stephan Institute of Mathematics, University Duisburg-Essen, 47048 Duisburg, Germany, tiedemann@math.uni-duisburg.de

Tjandra, Stevanus Adrianto Department of Mathematics, University of Kaiserslautern, 67653 Kaiserslautern, Germany, tjandra@mathematik.uni-kl.de

Wiegele, Angelika Department of Mathematics, University of Klagenfurt, 9020 Klagenfurt, Austria, angelika.wiegele@uni-klu.ac.at