

# Resource Efficiency in Interorganizational Networks

## Newsletter



Newsletter #1 - 16.12.2014

### Overview

---

News from the RTG

---

Upcoming Events

---

Publications

---

Dear Readers,

Resource efficiency has recently become a widely discussed topic. Broadly speaking, resource efficiency is a way of producing more goods while using less natural resources. Since 2012, the Research Training Group has been investigating and developing quantitative planning methods for new concepts to utilize renewable resources. With this newsletter, we would like to inform you about our activities and upcoming events. If you would like us to announce any event (call for papers, publications, conferences, lectures, awards, etc.), feel free to send us your content. Of course we remain at your disposal for any information, criticism, or comments.

*Season's greetings,*  
Jutta Geldermann (editor-in-chief)

Editorial team: Shanna Appelhanz, Tim Koddenberg, Corinna Krüger, Victoria Osburg, Meike Schmehl, Morten Tiedemann

### News from the RTG

#### New RTG-Members

In 2014, six new members joined the RTG:

- Tim Koddenberg  
*Topic A.2: Characterization of By-Products from Forestry*
- Corinna Krüger  
*Topic B.3: Robust Multicriteria Optimization*
- Francesco Castellani (associated)  
*Topic B.7: Life Cycle Assessment*
- Markus Mandrella (associated)  
*Topic C.2: Information Management and IT-Governance*
- Tim Schröder (associated)  
*Topic A.7: Generation of Energy*
- Patrick Urbanke (associated)  
*Topic C.5: Relationship Management*
- In September 2014, Meike Schmehl succeeded Dr. Susanne Wiedenmann as scientific coordinator of our RTG.

#### Open Ph.D. Positions

The RTG is offering 6 Ph.D. positions starting from 1 April 2015. The disciplines involved are: forestry, agricultural sciences, mathematics, business information systems and economics. Dissertations are possible in the research areas: materials and technology (A), planning of production and supply chains for renewable resources (B), and governance, coordination, and distribution (C).

Please apply before 5 January 2015. Further information can be found [here](#).

**Guest Researchers** 2014, the following guest researchers visited the RTG:

- On 23-25 April 2014 Prof. Matthias Ehrgott of Lancaster University attended the dissertation defense of Jonas Ide as a member of the committee. His research interests lie in the field of multi-objective optimization and he worked with Jonas Ide, Corinna Krüger and Anita Schöbel on algorithms for robust multi-objective optimization.
- On 26-27 May 2014 Prof. Mundorf of the University of Rhode Island was invited by the researchers of Topic C. His research interests lie in the fields of media effects, global and online communication, transportation, sustainability, and behavioral change.
- In November 2014 Francesco Castellani finished his period as guest researcher at the Chair of Production and Logistics at the University of Göttingen. He will continue to work on his Ph.D. both at the National Research Council of Italy (CNR-ISAFOM of Perugia) and at the University of Göttingen. Since November 2014 he has been an associate member of our RTG.
- From May to June 2014, Beibei Liu, assistant professor at the School of the Environment, Nanjing University, visited the RTG. Her research field includes environmental analysis of energy systems and energy/environmental policy analysis.

If you are interested in a research stay at our RTG, we are happy to welcome you!

### **Research Visits**

To share knowledge and ideas, members of our RTG visited the following universities in 2014:

- From 01/14 to 04/14, Ingo Karschin worked with Dr. Alex Berg at the Unidad de Desarrollo Tecnológico (UDT) in Concepción, Chile. UDT is a research center that focuses on biomaterials and bioenergy and links scientific research and development to industrial implementation of new and innovative technologies.
- From 01/14 to 02/14 Morten Tiedemann visited the Department of Computer Science and Software Engineering at the University of Canterbury, New Zealand. He collaborated with the working group of Prof. Tadao Takaoka on the subject of algorithms and complexity.
- From 02/14 to 04/14 Morten Tiedemann also visited the Department of Engineering Science at the University of Auckland, New Zealand. Here, he cooperated with the working group of Prof. Matthias Ehrgott on the subject of multi-objective optimization.
- From 05/14 to 06/14 Mohammad Sadegh Taskhiri worked at Sustainable Industrial Systems, a research group at the University of Manchester, UK, led by Professor Adisa Azapagic. Here, he considered scenario analysis for logistics networks for wood and analyzed its environmental impact using life cycle assessment.
- Since 11/14 Felix Haiduk has been working at the Center for Wood Science and Technology, part of the Department of Chemical Wood Technology at the University of Hamburg. The Chemical Wood Technology working group is specialized in research in the field of cellulose and hemicelluloses of wood, lignins, extracts as well as pulp and paper and fiberboards.
- Since 09/14 Laura Teuber has been working at Scion in New Zealand. Scion is a New Zealand Crown Research Institute (CRI), which specialises in the research and development of the science and technology of forestry, wood products, and further biomaterial sectors.
- Since 10/14 Simon Trang has been working at Macquarie University, Sydney. Currently, he is studying the operation and management of information systems within networks of the wood industry at the Department of Accounting and Corporate Governance.
- Since 11/14 Victoria Osburg has been visiting the University of Auckland, New Zealand. She is working at the Department of Marketing, which includes sustainability marketing among its main research topics.

## Completed Dissertations

- In April 2014, Jonas Ide successfully defended his Ph.D. thesis "Concepts of Robustness for Uncertain Multi-Objective Optimization". He was a collegiate from 04/12 to 04/14 and worked on Topic B.3: Robust Multicriteria Optimization.
- Susanne Wiedenmann successfully defended her Ph.D. thesis "Supply Planning for Processors of Agricultural Raw Materials". She worked for the RTG as a scientific coordinator from 04/12 to 09/14.

## Upcoming Events

### Call for Abstracts "OR for Energy and Resource Efficiency"

**EURO 2015** is the premier European conference for Operational Research and Management Science (ORMS), organized by the European Association of Operational Research Societies in conjunction with the UK OR Society. The Research Training Group "Resource Efficiency in Interorganizational Networks" invites for its sessions.

Please submit your abstract of not more than 600 characters (incl. blanks; please no mathematical symbols) through the "Abstract Submission" system at the conference homepage. Please refer to the Session (Invitation). Code of our Session: bb511e80

After the conference, the paper presenters are invited to submit their papers for publication in one of our journals.

#### *Important Dates:*

- Abstract submission closes: 16 March, 2015  
Early Bird Registration Deadline: 20 April, 2015  
Euro Conference: 12-15 July, 2015

## Conferences

At the following conferences, topics of the RTG will be considered and members of the RTG will present their results:

- [48th Annual Hawaiian Conference on System Science \(HICSS\)](#): 5-8 January, 2015, Kauai, Hawaii (USA)
- [9th International Workshop on Algorithms and Computation \(WALCOM\)](#): 26-28 February, 2015, Dhaka (Bangladesh)
- [Japan Wood Research Society – International Symposium on Wood Science and Technology \(IAWPS 2015\)](#): 15-17 March, 2015, Tokyo (Japan)
- [2nd International Conference on Natural Fibers, From Nature to Market \(ICNF 2015\)](#): 27-29 April, 2015, São Miguel – Azores (Portugal)
- [46th Annual Meeting of the International Research Group on Wood Protection \(IPG-WP\)](#): 10-14 May, 2015, Viña del Mar (Chile)
- [2nd Energy for Sustainability Multidisciplinary Conference \(EfS 2015\)](#): 14-15 May, 2015, Coimbra (Portugal)
- [69th Forest Products Society \(FPS\) – International Convention](#): 10-12 June, 2015, Atlanta, Georgia (USA)
- [8th Conference of the International Society for Industrial Ecology](#): 7-10 July, 2015, University of Surrey, Guildford (United Kingdom)
- [14th International Conference on Environmental Science and Technology \(CEST 2015\)](#): 3-5 September, 2015, Rhodes (Greece)

- Appelhanz, S., Ludorf, S., Schumann, M. (2014): *CoC-Zertifizierung in der Forst- und Holzwirtschaft: Schwachstellen und Traceability-basierte Lösungsansätze*. In: M. Clasen, K. C. Kersebaum, A. Meyer-Aurich, B. Theuvsen: Referate der 34. GIL-Jahrestagung in Bonn 2014 - IT-Standards in der Agrar- und Ernährungswirtschaft (GI Lecture Notes in Informatics).
- Beckers, C., Zander, S., Kolbe, L.M. (2014): *Nutzung von betrieblichen Umweltinformationssystemen in der Fleisch verarbeitenden Industrie - eine empirische Erhebung*. In: Proceedings of the Multikonferenz Wirtschaftsinformatik (MKWI) 2014, February 26-28, Paderborn, pp. 1305-1317.
- Beckers, C., Zander, S., Kolbe, L.M. (2014): *Umweltinformationen erfordern Management: Ergebnisse eines Diskurses zum Abgleich von Theorie und Praxis*, Fleischwirtschaft 94 (5) 2014.
- Bender, M., Westphal, S. (2014): *Maximum Generalized Assignment with Convex Costs*, In: Proceedings of 3rd International Symposium on Combinatorial Optimization (ISCO 2014), LNCS, Volume 8596, pp. 75-86.
- Ehrgott, M., Ide, J., Schöbel, A. (2014): *Minmax Robustness for Multi-objective Optimization Problems*. European Journal of Operational Research 239, pp. 17-31.
- Geldermann, J. (2014) *Anlagen- und Energiewirtschaft. Kosten- und Investitionsschätzung sowie Technikbewertung von Industrieanlagen*. Vahlen-Verlag, München.
- Goerigk, M., Gupta, M., Ide, J., Schöbel, A., Sen, S. (2014): *The Robust Knapsack Problem with Queries*. Computers & Operations Research, published online.
- Ide, J. (2014): *Concepts of Robustness for Uncertain Multi-Objective Optimization*. Dissertation at the DFG Research Training Group 1703 "Resource Efficiency in Inter-organizational Networks". Universität Göttingen.
- Ide, J., Köbis, E., Kuroiwa, D., Schöbel, A., Tammer, C. (2014): *The relation between multicriteria robustness concepts and set valued optimization*. Fixed Point Theory and Applications 83, pp. 1-20.
- Ide, J., Tiedemann, M., Westphal, S., Haiduk, F. (2014): *An Application of Deterministic and Robust Optimization in the Wood Cutting Industry*. In: 4OR, published online.
- Osburg, V.-S., Strack, M., Toporowski, W. (2014): *Choices between wood, Plastics, and innovative Wood Plastic Composites: Do consumers accept eco-innovations?* In: American Marketing Association (ed.): Marketing & Public Policy Conference Proceedings 2014. The past, present, and future of Marketing and public policy: Creating a better tomorrow. Boston, MA, pp. 83-84.
- Trang, S., Ruch, T., Kolbe, L.M. (2014): *Collaborative Technologies in an Inter-Organizational Context: Examining the Role of Perceived Information Security and Trust on Post-Adoption*. In: Proceedings of the Hawaii International Conference on System Sciences (HICSS) 2014, Big Island, USA, 10 p.
- Trang, S.; Zander, S.; Kolbe, L. M. (2014): *E-Business Adoption at the Firm Level: Comparing the Predictive Power of Competing IS Adoption Models*. In: Proceedings of the International Conference on Information Systems (ICIS) 2014. Auckland 2014 (forthcoming).
- Trang, S.; Zander, S.; Kolbe, L. M. (2014): *Dimensions of Trust in the Acceptance of Inter-organizational Information Systems in Networks: Towards a Socio-technical Perspective*. In: Proceedings of the Pacific Asian Conference on Information Systems (PACIS) 2014. Chengdu, China, 10 p.
- Trang, S.; Zander, S.; Schmitz, M., Kolbe, L. M. (2014): *One Size Fits All? The Contingent Role of Centrality in IT Network Governance*. In: Proceedings of the Pacific Asian Conference on Information Systems (PACIS) 2014. Chengdu, China, 10 p.
- Trang, S.; Zander, S.; Kolbe, L. M. (2014): *Examining IT Alignment in Inter-organizational Networks: Development and Application of a Measurement Instrument*. In: Proceedings of the Pacific Asian Conference on Information Systems (PACIS) 2014. Chengdu, China, 10 p.
- Uhlemair, H., Karschin, I., Geldermann, J. (2014): *Optimizing the production and distribution system of bioenergy villages*. In: International Journal of Production Economics, pp. 62-72.
- Wiedenmann, S., Geldermann, J. (2014): *Supply Planning for Processors of Agricultural Raw Materials*. In: European Journal of Operational Research, published online.

## Unsubscribe from Newsletter

In order to unsubscribe from the newsletter, please use the following link:

[Unsubscribe.](#)

## Contact Details

RTG 1703  
Platz der Göttinger Sieben 3  
Oeconomicum 1.101  
37073 Göttingen  
[Homepage](#)