



Conference Program June 29 – July 2, 2014

Dear conference participant,

I welcome you to Mannheim for StochMod14. This joint meeting of the GOR and the EURO Working Group on Stochastic Modelling is the 5th in a series that brings together applied Probabilists, Operation Researchers, Engineers, Computer Scientists and Statisticians with a main or side interest in stochastic modelling. The scope of the conference includes both theoretical papers with advances in mathematical techniques that



can be useful for analyzing stochastic models as well as applications of performance analysis of telecommunication systems, the modelling of logistics and service systems, the theory of queueing and inventory models, revenue management, and so forth.

This year, 60 researchers from 12 countries participate in the meeting. I would like to express my sincere appreciation for the contribution of all participants. I also thank the University of Mannheim, the Mannheim Business School, the German OR Society (GOR) and the EURO Working Group on Stochastic Modelling for their support.

Mannheim is a versatile city in one of the sunniest regions of Germany. Our university and conference venue is at the Mannheim castle, which is not only the largest baroque palace in Germany, but also the second-largest in Europe, only being surpassed by the French Versailles. I am sure you will enjoy your time and return home with fond memories.

Mannheim, June 29 Raik Stolletz



Conference Opening

The conference will be officially opened on **Monday**, **09:00-09:30am** in room **SN 169**. The

- president of the University, **Prof. Dr. Ernst-Ludwig von** Thadden
- the dean of the Business School of the University of Mannheim, **Dr. Jürgen M. Schneider**,
- and the coordinator of the EURO Working Group on stochastic modelling and the organizer of this years' conference, **Prof. Dr. Raik Stolletz**

are happy to welcome you.



Prof. Dr. Ernst-Ludwig von Thadden



Dr. Jürgen M. Schneider



Program Committee

Zeynep Akşin, Koc University, Turkey Philippe Chevalier, Université catholique de Louvain, Belgium Oualid Jouini, Ecole Centrale Paris, France Ger Koole, VU University Amsterdam, The Netherlands George Liberopoulos, University of Thessaly, Greece Oliver Rose, Universität der Bundeswehr München, Germany Alexander Schied, University of Mannheim, Germany Raik Stolletz, University of Mannheim, Germany

Local Planning Committee

Andrej Saweljew, University of Mannheim, Germany *Raik Stolletz*, University of Mannheim, Germany *Sophie Weiss*, University of Mannheim, Germany

3 Practical Information

Full program

This is the short program containing all relevant information in a compact manner. You can find the full program that also includes the full abstracts on the USB stick in your conference folder.

Conference Venue

The conference takes place in Mannheim at the University of Mannheim. All sessions will take place in the rooms SN 169 (mezzanine, after the stairs on the right), O142 and O145 (first floor, after the stairs on the right).



Coffee breaks are on the second floor, lunch will be in the catacombs. All directions will be signposted.

4 Practical Information

Registration desk

The registration and information desk is open during the gettogether as well as during the coffee breaks and the sessions. You can find the desk right at the main entry of the university.

Guidelines for Speakers and Session Chairs

The session rooms will be equipped with a laptop and a computer projector. Please be on time for your session and check in with your session chair. A volunteer or organizer will be available to set up your presentation and help you with any issues you might encounter. Presentations should emphasize the key issues and conclusions. Each speaker has in total 20 minutes for presentation and discussion, we propose to use at most 15 minutes for the presentation.

The last speaker of each session is assigned the session chair. He/she coordinates the session. The chair introduces each presentation, informs the speaker when the time is running short and leads the discussion.

5 Practical Information

6 Conference Schedule

WIFI credentials

On the whole campus

Our university participates in the **eduroam** initiative. If your university supports eduroam, you can login with your credentials.

In areas where StochMod 2014 takes place

Alternatively, we have set up a **guest network** for you which can be used in the areas where the StochMod takes place.

SSID: (Info only in printed program) **Password:** (Info only in printed program)

Urgent issues

In case of any urgent issue, please contact a member of the **local organizing committee**:

- Andrej Saweljew (Info only in printed program)
- Raik Stolletz (Info only in printed program)
- Sophie Weiss (Info only in printed program)

You can find further details on page 24.

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Further information regarding the social events can be found on page 19.

7 Plenaries

Monday, 09:30-10:30 Room SN169

Ton de Kok Managing complexity and uncertainty with Newsvendor equations

Real-world problems in operations management concern multiple items to be sold, processed and sourced and multiple resources in type and quantity to be used. This complexity has been



successfully dealt with in the context of deterministic problem formulations due to advances in generic optimization tools, such as CPLEX. Unfortunately, real-world problems show uncertainty in demand and processes, whereby objective functions become nonlinear and in complex situations even expressions for objective functions and constraints may be hard to derive. Despite this statement it seems that for generic multi-item multi-echelon problems optimal policies within wellknown classes of policies, e.g. base stock policies, satisfy socalled Newsvendor equations. These equations are characterized by target customer service fractiles that can be computed directly from holding and penalty cost parameters, where holding costs are charged for inventories and penalty costs are charged for backlogs or lateness. The form of these equations enables efficient computation of optimal policies, despite the non-linear multi-dimensional objective functions. In this presentation we provide insight into the nature of the problems that leads to the emergence of Newsvendor equations emerge. We also discuss the managerial insights that follow directly from the target fractiles.

8 Plenaries

Tuesday, 11:00-12:00 Room SN169

Kai Furmans Stochastic Models in Lean Management – Applications and Research Opportunities

Lean Management was first viewed as a collection of tools like Kanban, internal and external Milkruns and kaizen. Later it was understood, that at the core of it, it is a successful approach in leadership and management.



However, when analyzing the tools, it can

be shown by using stochastic models, how the individual tools support the overall goals of lean management. Using a few examples, it is shown, how stochastic models can be used, to evaluate the impact of lean methodologies on the performance of an operation.

However, there are still some areas, where lean management does not have answers yet. thus giving opportunities for further research. Some examples will be given.

9 Plenaries

Wednesday, 11:00-12:00 Room SN169

Shane Henderson Real-Time Control of Ambulance Fleets, and Simulation Optimization using High-Performance Computing

In the first part of the talk I will discuss ambulance redeployment, in which an ambulance fleet is controlled in real-time to attempt to ensure short response times to calls. I'll focus on the use of simulation optimization to tune approximate-dynamic programs that yield highly effective policies, along with a coupling approach to compute a bound on the optimality gap.



This work has motivated us to develop simulation-optimization algorithms that exploit parallel computing capabilities. In the second part of the talk, I'll discuss our work in developing "ranking and selection" algorithms for high-performance computing environments, and show results for runs using up to 1000 cores.

Monday, 09:30-10:30 Session 1, Room SN169: Plenary

10 Talks

Ton de Kok Managing complexity and uncertainty with Newsvendor equations

Monday, 11:00-12:00 Session 2a, Room O142: Optimization of Production Systems

Barış Tan Mathematical Programming Representations of Dynamics of Continuous Flow Production Systems

Sophie Weiss and Raik Stolletz Sample-based optimization of buffer allocations in flow lines with correlations

James Smith Joint Optimization of Buffers and Network Population for Closed Finite Queueing Systems

Monday, 11:00-12:00 Session 2b, Room O145: Financial Modeling

Tobias Jung Gas storage valuation with kernel-based dynamic programming

Nicola Secomandi Analysis and Enhancement of Practicebased Policies for the Real Option Management of Commodity Storage Assets

Ali Devin Sezer, Monique Jeanblanc and Tomasz Bielecki Joint Hitting-Time Densities for Finite State Markov Processes

12 Talks

Monday, 13:30-14:30 Session 3a, Room O142: Queueing Networks

Martin Epp, Judith Stoll, Carsten Rohlehr and Sebastian Scherer Discrete time analysis of closed queueing networks

Svenja Lagershausen and Barış Tan On the Inter-departure, Inter-start, and Cycle Time Distribution of Closed Queueing Networks Subject to Blocking

Kan Wu and Ning Zhao Analysis for Tandem Queues with Finite Buffer Capacity

Monday, 13:30-14:30 Session 3b, Room O145: Inventory Management I

Ilana Bendavid, Yale Herrer and Enver Yucesan Inventory Management under Working Capital Constraints

Odysseas Kanavetas and Apostolos Burnetas Ordering policies for two products with demand substitution

Caner Canyakmaz, Süleyman Özekici and Fikri Karaesmen Inventory Management in the Presence of Price Fluctuations

Monday, 15:00-16:30 Session 4a, Room O142: Call Center I

Ger Koole and Sihan Ding Minimal cost staffing and traffic management in call centers

Oualid Jouini, Benjamin Legros and Ger Koole On the Scheduling of Jobs in a Contact Center with Idling Times during the Call Service

Benjamin Legros, Oualid Jouini and Ger Koole Queueing and advertisements

Gideon Weiss, Marko Boon and Ivo Adan Design of parallel skill based service systems based on FCFS bipartite infinite matching

Monday, 15:00-16:30 Session 4b, Room O145: Queueing and MDP

Rakhee Kulshrestha Analysis of an Infinite Capacity Single Server Discrete Time Queue with Second Optional Service and Server Breakdown

Dwi Ertiningsih and Flora Spieksma E_k/M/1-queue: Stationary distribution and monotonicity properties

Herman Blok and Flora Spieksma Convergence properties of parametrised Markov decision processes

Laurens Smit, Michael Katehakis and Flora Spieksma On Successive Thinning and Lumping of Markov Processes



Tuesday, 09:00-10:30 Session 5a, Room O142: Health Care Operations

Caroline Jagtenberg, Sandjai Bhulai and Rob van der Mei A Polynomial Time Method for Real-Time Ambulance Redeployment

Rutger Kerkkamp, Caroline Jagtenberg, Sandjai Bhulai and Rob van der Mei Robustness of the Maximal Covering Location Problem

Lerzan Ormeci, Nermin Kurt and Amin Khoshkenar Analysis of Admission, Routing and Early Discharge Decisions in a Hospital Setting

Maria Rieders and Michael Levy Analysis of Household Participation in a Public Health Intervention Program for Eliminating the Spread of an Epidemic Disease

Tuesday, 09:00-10:30 Session 5b, Room O145: Inventory Management II

Felix Papier Supply Allocation under Advance Demand Information

Lars Fischer and Michael Manitz An Exact Discrete-Time Model of a Two-Echelon Inventory System with Two Customer Classes

Heinrich Kuhn, Alexander H. Huebner and Sandro Kuehn An epsilon-exact procedure for retail assortment planning with substitution effects

Tuesday, 11:00-12:00 Session 6, Room SN169: Plenary

Kai Furmans Stochastic Models in Lean Management – Applications and Research Opportunities

Tuesday, 13:30-14:30 Session 7a, Room O142: Time-dependent Queueing I

Athanasia Manou and Antonis Economou Strategic customers in a fluid queue with fast and slow service periods

Vera Rensink Impact of Parameter Uncertainty for Rare Event Simulation in the M(t)/M/1 queue

Justus Arne Schwarz, Gregor Selinka and Raik Stolletz

Analytical performance evaluation of time-dependent queues: A classification

16 Talks

Tuesday, 13:30-14:30 Session 7b, Room O145: Supply Chain Management

Michael Vidalis and Varlas George Production/distribution decisions for supply chains and the determination of their parameter values is a challenging problem. By linking production, stock and transportation processes, improved customer service levels can be obtained.

Massimo Di Francesco, Alexei A. Gaivoronski and Paola Zuddas Simulation and optimization for stochastic empty container repositioning

Gerd Hahn, Torben Sens, Catherine Decouttere and Nico Vandaele Sales & Operations Planning: the Issue of Subcontracting

Tuesday, 15:00-16:00 Session 8a, Room O142: Time-dependent Queueing II

Gregor Selinka and Raik Stolletz Performance analysis of heterogeneous queueing systems under time-dependent conditions

Ad Ridder and Vera Rensink Importance sampling simulation of queues with time-varying rates

Axel Franz and Raik Stolletz Queueing-based optimization of truck appointment systems

Tuesday, 15:00-16:00 Session 8b, Room O145: Scheduling

Miray Öner-Közen and Stefan Minner Employing the EDD rule in MTO Production Systems with External Due Dates

William Kun Liang and Baris Balcioglu A Practical Framework to Coordinate Dynamic Pricing and Scheduling Policies in a Make-to-Stock Queue

Stella Kapodistria CBM scheduling based on SPC treating false triggered alarms

Wednesday, 09:30-10:30 Session 9a. Room O142: Call Center II

Zeynep Aksin, Baris Ata, Seyed Emadi and Che-Lin Su Impact of Delay Announcements in Call Centers: An Empirical Approach

Andrej Saweljew, Raik Stolletz and Ger Koole The impact of service level agreements on call center performance

Ger Koole Call center routing optimization using waiting times

Wednesday, 09:30-10:30 Session 9b, Room O145: Applications of Stochastic Models

Julia Amador Modeling computer virus spread with a stochastic model

George Mytalas and Michael Zazanis Reliability of a Two-Parallel k-out-of-n System with Removable Repair Mechanism

Philippe Chevalier Group Buying Platforms, Leveraging the Online Effect

Wednesday, 13:30-14:30 Session 11, Room SN169: Queueing

18 Talks

José Antonio Heredia Álvaro, Antonio Estruch and Nico Vandaele Analysis of the variability transmission in a production line with an adaptive phase-type decomposition approach

Stella Kapodistria, Ivo Adan and Johan Van Leeuwaarden How to pick the better line

Ioannis Dimitriou A queueing system for modeling powersaving in wireless systems with retransmissions

Wednesday, 14:30-15:30 Session 12, Room SN169: Game Theory

Pelin Canbolat, Boaz Golany and Uriel G. Rothblum Risksensitive criteria in a class of resource-allocation games

Refael Hassin and Alexandra Koshman-Kaz Optimal control of a queue with high-low delay announcements

Wednesday, 11:00-12:00 Session 10, Room SN169: Plenary

Shane Henderson Real-Time Control of Ambulance Fleets, and Simulation Optimization using High-Performance Computing

19 Social Program

Monday, June 30: City tour Heidelberg

When vou come to Heidelberg, you will find it is a city that - in the words of J.W. Goethe, one of Germany's greatest writers has "something ideal" about it. Asked to name their favorite destination in



Germany, visitors from abroad consistently choose Heidelberg. And no fewer than three million international tourists come to Heidelberg every year, drawn by the historical flair of this university city, with its stunning setting and the baroque style old town.

Detailed information

We will travel to Heidelberg with a chartered bus, which departs from **Mannheim Castle (Ehrenhof)** after the last session at **4:30pm**. In Heidelberg, we will follow a **guided walking tour** to the most stunning spots in the city. The tour takes **two hours**. The bus departs from **Heidelberg Neckarmünzplatz** at **9pm**, the time in between the guided tour and the departure is at free disposal. The bus will arrive in Mannheim around 9:30pm.

If you would like to stay longer, we provided you with a city map of Heidelberg in your conference folder. From the city center, you can take the tram lines no. 5 and 21 from Bismarckplatz to "Heidelberg Hauptbahnhof" (main station). From there, you can easily take the following trains back to

"Mannheim Hauptbahnhof", the travel time is approximately 20 minutes. **Please note that you cannot buy tickets in the train.** They have to be bought beforehand at a ticket machine.

Departure Heidelberg Main Station	Arrival Mannheim Main Station	Train	Platform	Direction
21:44	22:02	S1	2	Kaiserslautern
22:14	22:32	S1	2	Kaiserslautern
22:44	23:02	S4	2	Mannheim
23:14	23:32	S1	5	Kaiserslautern
23:42	0:01	S1	1	Ludwigshafen
0:14	0:30	S1	2	Kaiserslautern
0:54	1:14	S2	5	Ludwigshafen

Bus departure in Mannheim: Ehrenhof

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Bus departure in Heidelberg: Neckarmünzplatz



Heidelberg Main Station



Tuesday, July 1: Hambach Castle

Built in the first half of the 11th century, Hambach Castle was reconstructed several times during the 13th century. In 1552 it was burned down, and only provisionally restored. It suffered further damage



during the War of the Palatinian Succession in 1688 and was finally abandoned. In 1832, Hambach Castle became famous due to the Hambacher Fest, a demonstration which took place at the ruins. The Palatinate population, among others, showed their discontent over the Bavarian administration demanding freedom and democracy. Ever since then, Hambach Castle has been considered as the cradle of German democracy. In 1844, first attempts to restore the castle were made by Bavaria, but the project stopped already in 1846. On the occasion of the 150th anniversary of the Hambacher Fest, the castle finally was completely restored. Today, the castle is a museum and a convention center with about 200.000 visitors each year.

Detailed information

We will travel to Hambach Castle with a chartered bus at around **4:45pm**, after we have taken a group photo at **Mannheim Castle (Ehrenhof)**. The bus departs there as well. Please note that a short but rather steep walk from the parking lot up to the castle is necessary. At the castle, we will be

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welcomed with a champagne reception on the terrace. Afterwards, the conference dinner will take place in the Festsaal. The bus departs from **Hambach Castle** at **around 10:30pm** and will arrive in Mannheim around 11pm.

24 Contact persons







Raik Stolletz

Andrej Saweljew Sophie Weiss



Qinrui Zhou

Chieh Lin (Ellen)

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Zeynep Aksin	Koc University	Page 17
Julia Amador	Universidad Complutense de	Page 17
Paria Palaianlu	Madrid Sebenei University	Dogo 16
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Kulshrestha	Science and Technology	-
Svenja	Leibniz Universität	Page 11
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