Welcome to the 7th IEEE Conference on E-Commerce Technology (CEC'05) organized by the IEEE Computer Society Technical Committee on E-Commerce and welcome to the TU München, this year’s host of the conference! We are delighted to provide the venue and facilities for what we hope will be a stimulating and successful event.

IEEE Conference on E-Commerce Technology (CEC'05) is the 7th annual event (formerly WEGWIS) and the flagship annual conference of the IEEE Computer Society Technical Committee on E-Commerce. CEC is a primary forum for the exchange of information regarding advancements in the state of the art of theory and practice in E-Commerce and Web-based Information Systems, as well as to identify emerging research topics and define the future of E-Commerce technology. The conference theme for 2005 will be „Service-oriented E-Commerce“.

This year 42 full papers and 48 short presentations from 203 submitted papers were selected for the final program. The conference opens on 19 July with a day of workshops and tutorials followed by three days of the regular program. In several keynote talks renowned speakers give presentations about “up-to-date” topics that pose challenges to research and technology development:

- Stuart Feldman, Ph. D. (IBM Research)
- Prof. Dr. Lutz Heuser (SAP)
- Prof. Ramayya Krishnan, Ph. D. (Carnegie Mellon University)
- Prof. John Riedl, Ph. D. (University of Minnesota)
- Prof. Dr. Dr. h.c. mult August-Wilhelm Scheer (IDS Scheer)

The program also includes a panel discussion on “Research in E-Commerce and Enterprise Computing: E-Services and Beyond” and two tutorials that will provide an excellent chance for exchanges of ideas on specific topics in a small group. The conference reception on the evening of July 19 is a joint event with the annual Information Systems Day @ TUM (Tag der Wirtschaftsinformatik).

An excellent technical program is a prerequisite for interaction and communication, but it does not suffice unless accompanied by ample opportunities for social encounter such as the lunches, the reception and the banquet. We are delighted to also invite you to discover Munich and Bavaria, where you are most likely to find all the typical German phenomena, like beer gardens, fairy tale castles and those huge one liter beer glasses. In our guide you will find information about taking a Munich city tour, cultural events, shopping and many other attractions which Munich offers to its visitors.

Over the next few days, we hope that everyone participating in the conference will expand their knowledge and will find useful resources to help with their ongoing work. Most importantly, we hope that by the end of the conference everyone will have found new friends and partners with whom to work towards new research achievements.

Welcome To IEEE CEC' 05
Conference Officers And Program Committee Members

General Chairs:
- Martin Bichler, Technische Universität München, Germany
- Jen-Yao Chung, IBM Research, USA

Program Chairs:
- Günter Müller, University of Freiburg, Germany
- Kwei-Jay Lin, University of Irvine, USA

Industrial Chair:
- Markus Stöße, IBM Research, Switzerland

Publication Chair:
- Sang Hyuk Son, University of Virginia

Publicity Chair:
- Patrick Hung, University of Ontario Institute of Technology, Canada
- Haifei Li, Union University, USA

Workshop Chairs:
- Ramayya Krishnan, CMU, USA
- Andreas Wombacher, Fraunhofer Institute, Germany

Tutorial Chair:
- Christof Weinhardt, University of Karlsruhe, Germany

International Liaison:
- John Riedl, University of Minnesota, USA (ACM SIG EC)
- Matthias Jarke, RWTH Aachen; Mareike Schoop, University Hohenheim (GI / GI FB 5.5)
- Mike Shaw, University of Illinois at Urbana-Champaign, AIS SIGeBIZ

Web Chair:
- Moritz Strasser, University of Freiburg, Germany

Steering Committee:
- Martin Bichler, TU München
- Jen-Yao Chung, IBM Research
- Mei-Chun Hsu, CommerceOne
- Günter Müller, University of Freiburg
- Kwei-Jay Lin, University of California, Irvine (Chair)

Program Committee Members:
- Karl Aberer, Swiss Fed. Inst. Of Tech. EPFL, Switzerland
- Mikhail Atallah, Purdue University, USA
- Boualem Benatallah, UNSW, Australia
- Elisa Bertino, Purdue University, USA
- Felix Brandt, Stanford University, USA
- Christof Bussler, Digital Enterprise Research Institute (DERI), Ireland
- Fabio Casati, HP, USA
- Deren Chen, Zhejiang University P. R., China
- Lutz Kolbe, University of St. Gallen, Switzerland
- Ramayya Krishnan, Carnegie Mellon University, USA
- Hui Lei, IBM Research, USA
- Heiko Ludwig, IBM Research Center, USA
- Richard Mathieu, Saint Louis University, USA
- Zoran Milosevic, CRC for EDST, Australia
- Rakesh Mohan, IBM T. J. Watson Research Center, USA
- Guenter Mueller, University of Freiburg, Germany
- Joerg Mueller, Siemens AG, Germany
- Andreas Oberweis, J.W. Goethe-University Frankfurt, Germany
- Günter Pernul, University of Regensburg, Germany
- Birgit Pröll, Johannes Kepler University of Linz, Austria
- Carlton Pu, Georgia Inst. Tech., USA
- Kai Rannenberg, Goethe University Frankfurt, Germany
- Arno Schart, University of Western Australia, Australia
- Detlef Schoder, University of Cologne, Germany
- Ming-Chien Shan, HP, USA
- Olivia Sheng, University of Utah, USA
- Simon Shim, San Jose State University, USA
- Zhong TIAN, IBM, China
- Wil van der Aalst, Eindhoven University, Netherlands
- Yan Wang, Macquarie University, Australia
- Andreas Wombacher, University of Twente, Netherlands
- Kun-Lung Wu, IBM, USA
- Stephen Yang, National Central University, Taiwan
- Soe-Tsyr Yuan, National Chengchi University, Taiwan
- Jia Zhang, Northern Illinois University, USA
- J Leon Zhao, University of Arizona, USA
- Paul Grefen, Eindhoven University, Netherlands
- Daniela Grigori, Saint-Quentin-en-Yvelines University, France
- Jane Hsu, National Taiwan University, Taiwan
- Arun Iyengar, IBM Research, USA
- Sverker Jansson, SICS, Sweden
- Matjaž B. Juric, University of Maribor, Slovenia
- Chris Kenyon, IBM Research, Switzerland
- Stefan Kim, University of Hohenheim, Germany
- Lutz Kolbe, University of St. Gallen, Switzerland
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IEEE Computer Society Technical Committee on Electronic Commerce

The Technical Committee on Electronic Commerce (TCEC) acts as an international forum to promote E-Commerce research and education, and participate in setting up technical standards in this area. Issues related to the design, analysis and implementation of E-Commerce systems and solutions are of interest. The Technical Committee on Electronic Commerce (TCEC) sponsors professional meetings, publishes newsletters and other documents, sets guidelines for educational programs, and it helps coordinate academic, funding agency, and industry activities in the above areas. The TCEC organizes annual conferences such as the Conference on E-Commerce Technology or the Conference on E-Technology, E-Commerce and E-Service. If you want to become a member of the IEEE Computer Society TCEC, take a look at our web site at http://tab.computer.org/tcec/.
Time

Germany is located in the Central European Time Zone. In summer the Summer Daylight-Saving Time (GMT+2) is in effect.

General Conference Information

Conference venue and registration The 7th IEEE Conference on E-Commerce Technology takes place at the downtown campus of the Technische Universität München in the Theresianum. Address: TU München, Arcisstraße 21, 80333 Munich, Germany E-mail: cec05@in.tum.de, Phone: +49 (89) 289-22885 and +49 (89) 289-22885 . Fax: +49 (89) 289-22895. The workshop and conference registration will take place in the “Foyer Theresianum” on July, 19th 8 am – 6 pm

Finding your way You can reach Munich’s railway station (Hauptbahnhof) by walking down the “Luisenstraße” to the south (~10 min.) or by public transport using U2 from “Königsplatz” or “Theresienstraße” (~5 min.) or using Tram Line 27 from “Pinakothek” (~5 min). With Tram Line 27 you can also reach “Karlsplatz/Stachus” or “Sendlinger Tor” (~10 min) which are two main points of Munich’s city center. From Munich’s railway station you can use the Metro S8 and S1 to get to the airport (~1 h). To reach the English Garden (Englischer Garten) you can go west on the “Theresienstraße” (~15 min) or use the Metro from “Hauptbahnhof” to get to the “Marienplatz” and from there the Underground U3/6 to “Universität” or “Münchner Freiheit” (~10 min). For more information please take a look at the maps and the section “Information for your Visit to Munich” provided at the end of this conference program.

Conference registration fees include coffee breaks on July 20, 21 and 22, lunch on July 20 and 21, conference dinner on July 20, conference sessions, welcome reception on July 19 and the conference proceedings. Additional dinner ticket: 40,- Euro / person. Workshop registration fees include coffee breaks, lunch, welcome reception on July 19 and proceedings. Student IDs will be required at the registration desk. There is a separate registration for the Munich City Tour on Thursday.

Help and Support If you need help or additional information during the conference please contact one of our staff members, identifiable by their green badges.

Network support WLAN Service is available in the Theresianum’s Foyer. To use the WLAN you need a key (no secure encryption). WLAN SSID of the Access-Point is “CON”. The WLAN “CON” is a hidden network. This means you have to insert the SSID “CON” explicitly in your configuration. You can find a PC-Pool in room number 3506b on the third floor (Login: cec05, Password: cec05). Power and Network plugs for your own notebook are in the Theresianum’s foyer and in the PC-Pool.

Coffee breaks There are 15 minute coffee breaks at 10.30 am and 2.45 pm each day at the “Foyer Theresianum”.

Bank, exchange and credit cards Facilities for cashing traveller’s cheques are available at banks (opening hours 8.30 am – 4 pm) and at most hotels. Banks are closed between 12.00 am and 2 pm and on Saturday and Sunday. Throughout the city there are numerous ATMs available. Most credit cards are accepted in Germany, most popular being Master and Visa. However many small shops and restaurants may accept only “EC” debit cards, so better ask in advance.

Phone country code for Germany is ++49. When dialing to a foreign country, enter “00” before the country code. For example, the country code for the USA is 001, for France 0033.

Electricity The voltage/frequency in Germany is 220 volts / 50 Hz. Plugs and sockets are the same as in the other countries of the European Union. Non-European participants need a plug adapter for electrical appliances.

Information For Chairing Sessions

• When checking in at the registration desk, please sign the session chair list so that we know that you are present.
• Introduce yourself to your presenters and remind them to give you their short biography.
• Before the first speaker is scheduled to begin, introduce the session, introduce yourself and any co-chairs or assistants, make any announcements, and state the session rules. These are generally: (1) Every talk is allotted a total of 30 minutes (20 minutes for short papers), typically 25 minutes of presentation and 5 minutes for questions. (2) Every talk needs to end on time. (3) The chair will signal the speaker when 5 minutes are left (= 1 minute of speaking time) and 1 minute is left of the 30 minute slot
• Introduce the papers and maintain the schedule times listed in the program.
• There are 15 minute coffee breaks at 10.30 am and 2.45 pm each day.
• In case of an audio or visual emergency please ask the person in charge assigned to your room to get help immediately.
• Introduce your presenters using the biography they have given you.
• In general, please allow the audience to ask questions first before you do. Have a look at the papers in your session and prepare for the discussion.

Information For Presenters

• You have 25 minutes (15 minutes for short papers) to present, followed by 5 minutes for questions.
• You can present using your own laptop or bring a CD / USB “memory stick”. Copy your file to the hard drive. Presentation format: MS Powerpoint.
• Biography. Please write a short biography for the chair to use to introduce you. (We suggest 4-6 lines, preferably typed or in block letters).
• Please be considerate to the other speakers: keep to the allowed time.
• Earlier during the conference, if possible, please go to the room in which you will be presenting in order to copy your presentation files onto the conference laptop computer. Test it to make sure it runs as expected.
• Please be considerate to the other speakers: keep to the allowed time.

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## Overall Conference Timetable

### July 19th, 2005 (Tuesday) CEC 05 Workshops and Conference Reception

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.00-09.00 am</td>
<td>Workshop and Conference Registration (whole day), Coffee, Drinks&lt;br&gt;Workshop: On Theresianum Second Floor, Registration: Foyer Theresianum</td>
</tr>
<tr>
<td>09.00-10.00 am</td>
<td>Service-oriented Solutions (W)&lt;br&gt;Business Transformation (W)&lt;br&gt;Mobile Commerce &amp; Service (W)&lt;br&gt;Session 1: M-commerce Applications and Services&lt;br&gt;Mobile Commerce &amp; Service (W)</td>
</tr>
<tr>
<td>10.00-11.00 am</td>
<td>Committee Meeting&lt;br&gt;Session 2: Mobile Commerce and Services&lt;br&gt;Mobile Commerce &amp; Service (W)</td>
</tr>
<tr>
<td>11.00-12.00 am</td>
<td>Coffee Break Location: Foyer Theresianum</td>
</tr>
<tr>
<td>12.00-01.00 pm</td>
<td>Lunch Location: Mensa of TUM</td>
</tr>
<tr>
<td>01.00-02.30 pm</td>
<td>Panel: Research in E-Commerce and Enterprise Computing: E-Services and Beyond</td>
</tr>
<tr>
<td>02.30-02.45 pm</td>
<td>Coffee Break Location: Foyer Theresianum</td>
</tr>
<tr>
<td>02.45-04.15 pm</td>
<td>Auction and Negotiation Technology II (F)&lt;br&gt;Security, Privacy and Trust Issues II (F)&lt;br&gt;Web Services Computing and Composition II (S)&lt;br&gt;TCEC ExCom meeting (by invitation)</td>
</tr>
<tr>
<td>04.15-04.30 pm</td>
<td>Coffee Break Location: Foyer Theresianum</td>
</tr>
<tr>
<td>04.30-06.00 pm</td>
<td>Auction and Negotiation Technology III (F)&lt;br&gt;Web Services Computing and Composition (F)&lt;br&gt;Transaction and Workflow Management (S)&lt;br&gt;Tutorial: Privacy in E-Commerce</td>
</tr>
<tr>
<td>06.00-08.00 pm</td>
<td>CEC Banquet Keynote: The Power of Business Processes in E-Commerce&lt;br&gt;by Prof. Scheer (German Research Center for Artificial Intelligence)</td>
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### July 20th, 2005 (Wednesday) CEC 05

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08.00-08.50 am</td>
<td>Registration, Coffee Location: Foyer Theresianum or Auditorium</td>
</tr>
<tr>
<td>08.50-10.15 am</td>
<td>Keynote: Enterprise Services Architecture &amp; Semantic Web Services&lt;br&gt;by Prof. Heuser (SAP)</td>
</tr>
<tr>
<td>10.15-10.30 am</td>
<td>Coffee, Break Location: Foyer Theresianum</td>
</tr>
<tr>
<td>10.30-12.00 am</td>
<td>Auction and Negotiation Technology I (F)&lt;br&gt;Security, Privacy and Trust Issues I (F)&lt;br&gt;Web Services Computing and Composition I (S)&lt;br&gt;TCEC ExCom meeting (by invitation)</td>
</tr>
<tr>
<td>12.00-01.00 pm</td>
<td>Lunch Location: Mensa of TUM</td>
</tr>
<tr>
<td>01.00-02.30 pm</td>
<td>Panel: Research in E-Commerce and Enterprise Computing: E-Services and Beyond</td>
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<tr>
<td>02.30-02.45 pm</td>
<td>Coffee Break Location: Foyer Theresianum</td>
</tr>
<tr>
<td>02.45-04.15 pm</td>
<td>Auction and Negotiation Technology II (F)&lt;br&gt;Security, Privacy and Trust Issues II (F)&lt;br&gt;Web Services Computing and Composition II (S)&lt;br&gt;Tutorial: Privacy in E-Commerce</td>
</tr>
<tr>
<td>04.15-04.30 pm</td>
<td>Coffee Break Location: Foyer Theresianum</td>
</tr>
<tr>
<td>04.30-06.00 pm</td>
<td>Auction and Negotiation Technology III (F)&lt;br&gt;Web Services Computing and Composition (F)&lt;br&gt;Transaction and Workflow Management (S)&lt;br&gt;Tutorial: Privacy in E-Commerce</td>
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<tr>
<td>06.00-10.00 pm</td>
<td>CEC Banquet Keynote: The Power of Business Processes in E-Commerce&lt;br&gt;by Prof. Scheer (German Research Center for Artificial Intelligence)</td>
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<tr>
<td>Time</td>
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<tr>
<td>08.30-08.50 am</td>
<td>Coffee Break Location: Foyer Theresianum</td>
</tr>
<tr>
<td>08.50-10.15 am</td>
<td>Keynote: Recommenders for Commerce, Content, and Community by Prof. Riedl (Univ. of Minnesota)</td>
</tr>
<tr>
<td>10.15-10.30 am</td>
<td>Coffee Break Location: Foyer Theresianum</td>
</tr>
<tr>
<td>10.30-12.00 am</td>
<td>Room 1: Supply Chain Management and Planning (F) SC: Christian Huemer</td>
</tr>
<tr>
<td>10.30-12.00 am</td>
<td>Room 2: E-Commerce Architectures and Enabling Technologies I (F) SC: Andreas Wombacher</td>
</tr>
<tr>
<td>10.30-12.00 am</td>
<td>Room 3: Auction and Negotiation Technology I (S) SC: Stefan Kirn</td>
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<tr>
<td>10.30-12.00 am</td>
<td>Room 4: -</td>
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<tr>
<td>12.00-01.00 pm</td>
<td>Lunch Location Mensa of TUM</td>
</tr>
<tr>
<td>01.00-02.30 pm</td>
<td>Room 1: Decision Support and Recommender Systems (F) SC: Dalu Zhang</td>
</tr>
<tr>
<td>01.00-02.30 pm</td>
<td>Room 2: E-Commerce Architectures and Enabling Technologies II (F) SC: Vural Ünlü</td>
</tr>
<tr>
<td>01.00-02.30 pm</td>
<td>Room 3: Auction and Negotiation Technology II (S) SC: Kwei-Jay Lin</td>
</tr>
<tr>
<td>01.00-02.30 pm</td>
<td>Room 4: Tutorial: P2P Systems - Technical and Economic Foundations</td>
</tr>
<tr>
<td>02.30-02.45 pm</td>
<td>Coffee Break Location: Foyer Theresianum</td>
</tr>
<tr>
<td>02.45-04.15 pm</td>
<td>Room 1: Marketing and Advertising Technology (F) SC: Katrin Gaßner</td>
</tr>
<tr>
<td>02.45-04.15 pm</td>
<td>Room 2: Industry Paper Session SC: Markus Stolze</td>
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<tr>
<td>02.45-04.15 pm</td>
<td>Room 3: Automated Contracting and Trading (S) SC: Mareike Schoop</td>
</tr>
<tr>
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<td>Room 4: Tutorial: P2P Systems - Technical and Economic Foundations</td>
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<td>Coffee Break Location: Foyer Theresianum</td>
</tr>
<tr>
<td>04.30-06.00 pm</td>
<td>Room 1: Automated Contracting and Trading (F) SC: Rama Ananthanarayanan</td>
</tr>
<tr>
<td>04.30-06.00 pm</td>
<td>Room 2: E-Commerce Architectures and Enabling Technologies III (F) SC: Kai Jakobs</td>
</tr>
<tr>
<td>04.30-06.00 pm</td>
<td>Room 3: Decision Support and Recommender Systems I (S) SC: Dickson K.W. Chua</td>
</tr>
<tr>
<td>04.30-06.00 pm</td>
<td>Room 4: TCEC Meeting (open to the public)</td>
</tr>
<tr>
<td>07.00-10.00 pm</td>
<td>PC Dinner (by invitation)</td>
</tr>
<tr>
<td>08.00-08.30 am</td>
<td>Registration, Coffee/Drinks Location: Foyer Theresianum</td>
</tr>
<tr>
<td>08.30-09.30 am</td>
<td>Keynote: E-commerce and Decision technologies: Research Opportunities and Challenges by Prof. Krishnan (CMU)</td>
</tr>
<tr>
<td>09.30-09.45 am</td>
<td>Coffee Break Location: Foyer Theresianum</td>
</tr>
<tr>
<td>09.45-11.15 am</td>
<td>Room 1: E-Commerce Architectures and Enabling Technologies IV (F) SC: Shuhua Liu</td>
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<tr>
<td>09.45-11.15 am</td>
<td>Room 2: Security, Privacy and Trust Issues I (S) SC: Ulrich Greveler</td>
</tr>
<tr>
<td>09.45-11.15 am</td>
<td>Room 3: Decision Support and Recommender Systems II (S) SC: Alexander Felfernig</td>
</tr>
<tr>
<td>09.45-11.15 am</td>
<td>Room 4: GI FB 5.5 Meeting (open to the public)</td>
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<tr>
<td>11.15-11.30 am</td>
<td>Coffee Break Location: Foyer Theresianum</td>
</tr>
<tr>
<td>11.30-1.00 pm</td>
<td>Room 1: Intellectual Property and Digital Rights Management (S) SC: Giovanni M. Sacco</td>
</tr>
<tr>
<td>11.30-1.00 pm</td>
<td>Room 2: Security, Privacy and Trust Issues II (S) SC: S. Nefti-Meziane</td>
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<tr>
<td>11.30-1.00 pm</td>
<td>Room 3: Mobile Commerce (S) SC: Oded Shmueli</td>
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<tr>
<td>11.30-1.00 pm</td>
<td>Room 4: Steering Committee Meeting (by invitation)</td>
</tr>
</tbody>
</table>
**Conference Program**

*July 19th, 2005 (Tuesday)*

**CEC 05 Workshops and Conference Reception**

- **08.00-9.00 am**
  - Workshop and Conference Registration (whole day), Coffee, Drinks
  - Workshop: On the Theresianum Second Floor
  - Registration: Foyer Theresianum

<table>
<thead>
<tr>
<th>Room 4</th>
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<tbody>
<tr>
<td>Service-oriented Solutions (W)</td>
<td>Business Transformation (W)</td>
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</tbody>
</table>

- **09.00-10.30 am**
  - **Room 4**
    - Trust and Transaction: Aspects of Trusted and Secure VO Management in Service Oriented Architectures
    - B. Schmit and S. Dustdar
  - **Room 7**
    - Future Research Challenges in Business Agility Time, Control and Information Systems
    - M. Strohmaier

- **Room 5**
  - Towards Transactional Web Services
    - B. Schmit and S. Dustdar
  - Implementing Web Service Protocols in SOA: WS-Coordination and WS-BusinessActivity
    - F. Vogt, S. Zambrovski, B. Gruschko and P. Furniss

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<tr>
<th>Room 5</th>
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<td>Service-oriented Solutions (W)</td>
</tr>
</tbody>
</table>

- **10.30-10.45 am**
  - **Room 4**
    - Total Cost of Ownership: Issues around Reducing Cost of Support in a Manufacturing Organization Case
    - J. O’Neill
  - **Room 5**
    - Developing Mobile Services: Balancing Customer and Network Value
    - H. Bouwman, T. Haaker and E. Faber

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</table>

- **11.30-12.15 am**
  - **Room 4**
    - Discovery Design and Implementation of a Service-oriented Business Rules Broker
    - F. Rosenberg and S. Dustdar
  - **Room 7**
    - Semantic Discovery Optimization: Matching Composed Semantic Web Services at Publishing Time
    - A. Friesen and M. Altenhofen

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</table>

- **12.15-01.15 pm**
  - Lunch Location: Mensa of TUM
  - Security Challenges of Location-Aware Mobile Business
    - E. Taili, D. Stegemann and S. Lucks

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</tbody>
</table>

- **01.15-02.45 pm**
  - Discussion: Aspects of Business Agility -> formation of working groups (3 groups)
  - A Categorization of Collaborative Business Process Modeling Techniques
    - S. Roser and B. Bauer
  - A Framework for implementing Business Agility through Knowledge Management Systems
    - N. Ashrafi

<table>
<thead>
<tr>
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</tr>
</thead>
</table>

- **02.45-03.30 pm**
  - Humancentric Applications of RFID Implants: The Usability Contexts of Control, Convenience and Care
    - A. Masters and K. Michael
  - Behavioral Pattern Analysis of Secure Migration and Communications in eCommerce using Cryptographic Protocols on a Mobile MAS Platform
    - S. Pozo, R. Gasca and R. Guerrero

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<td>Mobile Commerce &amp; Service (W)</td>
<td>Integrated service-oriented technologies to support business processes</td>
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<td>Business Transformation (W)</td>
<td>Towards a service agility assessment Modelling the composition and coupling of modular business services</td>
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- **03.30-04.15 pm**
  - Benchmarking Wireless LAN Location Systems
    - M. Wallbaum and S. Diepolder
  - Analysis andModification of ASK Mobile Security Protocol
    - I. Kim and J. Choi

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- **04.15-05.00 pm**
  - A Multi-Sensor System for Mobile Services with Vision Enhanced Object and Location Awareness
    - P. Luley, A. Almer, C. Seifert, G. Fritz and L. Paletta
  - Using the GSM/UMTS SIM to Secure Web Services
    - J. MacDonald and C. Mitchell

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- **05.00-05.45 pm**
  - Discovery Design and Implementation of a Service-oriented Business Rules Broker
    - F. Rosenberg and S. Dustdar
  - Working groups create presentation relating to their aspect of Business Agility

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<th>Room 4</th>
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<td>Service-oriented Solutions (W)</td>
<td>Business Transformation (W)</td>
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- **05.45-06.45 pm**
  - Service Allocation for Composite Web services Based on Quality Attributes
    - S. Esmailiabzali and K. Larson

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<td>Service-oriented Solutions (W)</td>
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The Efficiency of Decreasing Payment Amounts in Mobile Commerce and Ubiquitous Computing

D. Gille

m-Mag: The Mobile Magazine Services Platform

T. Pfeifer and B. Downes

P2P-Paid: A Peer-to-Peer Wireless Payment System

J. Gao, K. Edunuru and J. Cai

Personalization of End User Software on Mobile Devices

T. Blechschmidt, C. Kuhlmüller, L. Mehrmann and T. Wieland

Analyzing the Application of E-Commerce in Wireless Networks

K. Hyun-Seok, K. Il-Gon and J. Choi

Solution for Hybrid Bandwidth Variation in Wireless Video Environments

Z. Li, B. Wu, Y. Zhang and Z. Zhang

Coffee Break Location: Foyer Theresianum
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<tr>
<td>12.00-01.00 pm</td>
<td>Lunch Location Mensa of TUM</td>
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<td>01.00-02.30 pm</td>
<td>Panel: Research in E-Commerce and Enterprise Computing: E-Services and Beyond Chair: K.-J. Lin Participants: Umesh Dayal (HP Research), Stu Feldman (IBM Research), Lutz Heuser (SAP) (expected), Ramayya Krishnan (CMU) and John Riedl (Univ. of Minnesota)</td>
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<td>02.30-02.45 pm</td>
<td>Coffee Break Location: Foyer Theresianum</td>
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<td>02.45-04.15 pm</td>
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<td>Auction and Negotiation Technology II (F) SC: Amir Ronen</td>
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<td>An Adaptive Bilateral Negotiation Model for E-Commerce Settings V: Narayanan and N. Jennings</td>
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<td>Negotiation Support in Online Markets, with Competition and Co-operation R: Ananthanarayanan and M. Kumar</td>
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<td>A Flexible Model for Tree-Structured Multi-Commodity Markets P: Carlsson and A. Andersson (BPC)</td>
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<td>Web Services Computing and Composition II (S) SC: Peter Wurman</td>
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<td>Business Rules Integration in BPEL - A Service-Oriented Approach F: Rosenberg and S. Dusidar</td>
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<td>Towards an Integrated Privacy Framework for HIPAA-Compliant Web Services V: Cheng and P. Hung</td>
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<td>04.15-04.30 pm</td>
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<td>Auction and Negotiation Technology III (F) SC: Henner Gimpel</td>
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<td></td>
<td>Truthful Online Auctions for Pricing Peer-to-Peer Service P: Chen and T. Chuang</td>
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<td>Web Services Computing and Composition (F) SC: Koichi Hayashi</td>
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<td>Creating Value with Interactive Pricing Mechanisms – A Web Service-Oriented Architecture M: Bernhardt and O. Hinz</td>
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<td>04.30-06.00 pm</td>
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<td>Transaction and Workflow Management (S) SC: Yun Yang</td>
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<td>Contract-Based Cross-Organizational Automated Processes O: von Susani and P. Dugerdil</td>
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<td>Calculation of Delay Times for Workflows with Fixed-Date Constraints M: Bierbaumer, J. Eder and H. Pichler</td>
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<td>Synchronization among activities in a workflow using extended workflow Petri nets Y: Kolb and E. Badreddin</td>
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<td>07.00-10.00 pm</td>
<td>Ratskeller München</td>
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<td>CEC Banquet</td>
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<td>Keynote: The Power of Business Processes in E-Commerce by Prof. Scheer (German Research Center for Artificial Intelligence)</td>
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<td>08.30-08.50 am</td>
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<td>Coffee Break Location: Foyer Theresianum</td>
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<td>08.50-10.15 am</td>
<td>Keynote: Recommenders for Commerce, Content, and Community by Prof. Riedl (Univ. of Minnesota)</td>
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<td>Supply Chain Management and Planning (F) SC: Christian Huemer</td>
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<td>Supply Chain Protocolling B: Wu, M. Dewan, L. Li and Y. Yang</td>
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<td>E-Commerce Architectures and Enabling Technologies I (F) SC: Andreas Wombacher</td>
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<td>Cross Enterprise Business Modelling with AC Diagrams and Workflow Patterns S: Wu and K. Lin</td>
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| 10:30-12:00 am | **Unicursal Supply Chain Management for Extending Traceability from Ordering to Distribution and Settlement**  
K. Hayashi and R. Murakami (BPC) | **A Groves Mechanism Approach to Decentralized Design of Supply Chains**  
D. Garg, Y. Narahari, E. Foster, D. Kulkarni and J. Tew | | |
|              | **Room 3** | **Room 4** | **Auction and Negotiation Technology I (S)**  
SC: Stefan Kirn | **Multi-Attribute Double Auctions in Financial Trading**  
H. Gimpel, J. Mäkiö and C. Weinhardt |
|              | **Framework for the negotiation of electronic contracts in e-business on demand**  
W. Streitberger | | | |
|              | **Automated Contract Negotiation Using a Mediation Service**  
H. Tung and R. Lin | | | |
|              | **Managing Supply Chains of Software as a Service through Agents Negotiations**  
J. Chen, N. Göld, N. Mekhloufi and P. Layzell | | | |
| 12:00-1.00 pm | Lunch Location Mensa of TUM | | | |
| 01:00-02.30 pm | **Decision Support and Recommender Systems (F)**  
SC: Dulu Zhang | **E-Commerce Architectures and Enabling Technologies II (F)**  
SC: Vural Ünlü | | |
|              | **Koba4MS: Selling Complex Products and Services using Knowledge-based Recommender Technologies**  
A. Felfernig | **Evaluating E-commerce Cluster Architectures Using Simulation**  
A. Boyer, D. Siewiorek and B. Brügge | | |
|              | **A Recommender for Targeted Advertisement of Unsought Products in E-Commerce**  
K. Lin, J. Hsu, H. Huang and C. Hsu | **Query-By-Object Interface for Information Requirement Elicitation in M-Commerce**  
S. Abd Rahman, S. Bhalla and T. Hashimoto | | |
|              | **Towards Generic Low Payment Mechanisms for Decentralized Task Allocation**  
A. Ronen and R. Talisman | **Enabling DRM-preserving Digital Content Redistribution**  
S. K. Nair, B. Popescu, C. Garrage, B. Chisivo and A. Tanenbaum | | |
| 02.30-02.45 pm | **Room 3** | **Room 4** | **Room 3** | **Room 4** |
|              | **Marketing and Advertising Technology (F)**  
SC: Katrin Gassner | **Industry Paper Session**  
SC: Markus Stolze | | |
|              | **The intelligent e-store: easy interactive product selection and comparison**  
G. Sacco | **Implementing a RosettaNet B2B Integration Platform using J2EE and WebServices**  
J. Tikkala, P. Kotinurmi and T. Soininen | | |
|              | **Modeling Cooperative Business Processes and Transformation to a Service Oriented Architecture**  
T. Specht, J. Drawehn, M. Tränert and S. Kühne | | | |
|              | **A Personalized Product Recommendation Algorithm Based on Preference and Intention Learning**  
Y. Guo and J. Müller | **Using Singular Value Decomposition Approximation for Collaborative Filtering**  
|              | **Using Singular Value Decomposition Approximation for Collaborative Filtering**  
S. Zhang, W. Wang, J. Ford, F. Makedon and J. Pearlman (BPC) | **Developing Flexible Service Portals**  
B. Liver, J. Braun, B. Rentz and P. Roth | | |
| 02.45-04.15 pm | **Room 3** | **Room 4** | **Room 3** | **Room 4** |
|              | **Automated Contracting and Trading (S)**  
|              | | | | |
04.15-04.30 pm
Coffee Break Location: Foyer Theresianum

04.30-06.00 pm

Room 1

Automated Contracting and Trading (F)
SC: Rema Ananthanarayanan

E-Commerce Architectures and Enabling Technologies III (F)
SC: Kai Jakobs

Room 2

Pareto-Efficiency without Giving-In: A Two-Phased Protocol for Multiple-Attribute Negotiations
F. Lang and C. Brunn

Supporting eBusiness with a dictionary designed in a vertical standardisation perspective
P. De Sibbata, N. Gessa, G. Cucchiara, T. Imolesi and F. Vitali

Room 3

Catalog-Based Purchasing: Illustrating a Quantitative Approach to E-Commerce
B. Golany and O. Shmuell

Room 4 (40 person)

Decision Support and Recommender Systems I (S) SC: Dickson K.W. Chiu

sMart - A Semantic Matchmaking Portal for Electronic Markets
S. Lamparter and S. Agarwal

Decision Support and Recommender Systems II (S) SC: Alexander Felfernig

Ranking-based Business Information Processing: Applications to Business Solutions and eCommerce Systems
M. Chen and J. Sairamesh

07.00-10.00 pm
PC Dinner (by invitation)

08.00-08.30 am
July 22nd, 2005 (Friday)
CEC 05

Registration, Coffee/Drinks
Location: Foyer Theresianum

Room 1

Keynote: E-commerce and Decision technologies: Research Opportunities and Challenges
by Prof. Krishnan (CMU)

Best Paper Award

Room 2

09.45 am

Room 1

E-Commerce Architectures and Enabling Technologies IV (F) SC: Shuhua Liu

Security, Privacy and Trust Issues I (S) SC: Ulrich Greveler

Room 2

A Robust Business Resource Management Framework Based on a Peer-to-Peer infrastructure
T. Friese, J. Müller, M. Smith and B. Freisleben

Privacy Enhanced Electronic Cheque System
V. Pasupathiathan, J. Pieprzyk and H. Wang

Room 3

Security, Privacy and Trust Issues II (S) SC: S. Nefti-Meziani

GI FB 5.5 Meeting (open to the public)

Room 4

An Innovative Decision Support System for Bidding in Simultaneous Ascending Auctions
M. Dramitinos, G. Stamoulis and C. Courcoubetis

Context-Based Integration of Numerical Information
D. Zhang and L. Jing

EXSMAL: EDI/XML semi-automatic Schema Matching Algorithm
U. Chukmol, R. Rifaieh and N. Benharkat

Principles and Algorithms of EMMIL Marketplaces
L. Kacsukné Bruckner and J. Cséleányi

11.15-11.30 am

Effective Business Intelligence

Coffee Break Location: Foyer Theresianum

Room 1

Intellectual Property and Digital Rights Management (S) SC: Giovanni M. Sacco

Security, Privacy and Trust Issues II (S) SC: S. Nefti-Meziani

Room 2

Software Piracy Prevention through Digital Rights Management Systems
P. Djekic and C. Loebbecke

Anonymity and Security in Public Internet Forums
C. Wang, D. Chiu and H. Leung
Keynote Speakers

Keynote 1: The Impact of Services on Electronic Commerce
Tuesday, July 19, 2005, during conference opening, 6 - 8 pm

Stuart Feldman, Ph. D.
Vice President, On Demand Business Transformation
Area Strategist, IBM

Abstract

There are significant shifts, both at business and technology levels, toward services. Companies are deconstructing their functions and requirements in terms of explicit services, and then managing their value nets accordingly. Service-oriented architectures, supported by web service standards and technologies, are rapidly becoming a standard approach for enterprise IT systems. The many functions needed to support real commerce (pricing, fulfillment, marketing, supply chain, customer relationship, etc.) will be formulated in terms of web services. The talk will discuss the implications for performance, control, and interactions among actors and activities.

About the speaker

Stuart Feldman is responsible for the overall strategy and execution of the business-oriented parts of the software and services strategy: industry knowledge and solutions, business collaboration, optimization, and process transformation as well as digital media and electronic commerce. Before that, as Vice President for Internet Technology in the Systems and Technology Group, he was responsible for overall strategies relating to the future of the Internet and providing thought leadership for IBM’s Systems and Technology Group. His department created experimental Internet-based applications, drove a number of key Internet standards and policies, and ran the Extreme Blue program. Before that, he was Head of Computer Science in the Research division, responsible for growth and focus of the computer science research effort across the IBM Research Division. He was also the director of the IBM Institute for Advanced Commerce. Stuart Feldman received an A.B. in Astrophysical Sciences from Princeton University and a Ph.D in Applied Mathematics from the Massachusetts Institute of Technology.
Keynote 2: Enterprise Services Architecture & Semantic Web Services  
Wednesday, July 20, 2005, 8:50 – 10:15 am

Prof. Dr. Lutz Heuser  
Vice President of Corporate Research and Chief Development Architect, SAP AG

Abstract

As ‘traditional’ Web Service technologies are making their way into the mainstream distributed computing, Service Oriented Architectures (SOA) gain more and more momentum in current and future IT infrastructures. In this talk, we give a motivation for doing such a transition from a market area point of view and present SAP’s answer on the raising demand: The SAP Enterprise Services Architecture (ESA). The Enterprise Services Architecture comprises five key elements. Two of them are directly related with research topics in the area of Semantic Web Services. The second part of the talk gives an insight in current SAP Research activities and how they address challenges in Web Services.

About the speaker

Professor Lutz Heuser, Vice-President, is Head of SAP Research and Chief Development Architect at SAP AG. He is responsible for all strategic research programs and the global innovation transfer into the product portfolio of SAP. His main areas of expertise include eLearning, pervasive computing, Internet services, and business processes technology. Prior to joining SAP, Lutz Heuser was managing director of the European Research Organization of Digital Equipment Corporation and member of the extended board of the German subsidiary of Digital. He was co-founder of the renowned research centre CEC Karlsruhe, as well as three joint venture research centres with Universities of Karlsruhe, Darmstadt, and Dresden. Lutz received his doctoral degree in Informatics from the University of Karlsruhe and his diploma in Informatics from the University of Darmstadt. Lutz holds a professor visitante at the National University of Paraguay in Asuncion at the Faculty for Economical Sciences and provides lectures in Collaborative Business Processes Research. Furthermore, in June 2004 he was appointed as a honorary professor of the University of Darmstadt. Lutz Heuser has been author and co-author of two books and more than 25 research papers.

Keynote 3: E-commerce and Decision technologies: Research Opportunities and Challenges  
Friday, July 22, 2005, 08:30 - 09:15 am

Prof. Ramayya Krishnan, PhD  
Carnegie Mellon University

Abstract

In this talk, I will motivate the important role that decision technologies play in Electronic Commerce. Decision technologies - algorithmic and model-based methods to assist decision making - are a contribution of scholars in the Operations Research and Management Science (OR/MS) communities. In conjunction with Information technologies, they power many electronic commerce applications. To provide context and to motivate key research themes addressed in this literature, I will draw on my own work and a recent set of special issues on electronic commerce of the Management Science journal that I co-edited. In particular, I propose to highlight work in a set of diverse e-commerce topics such as shopbot design, evaluation of information revelation policies and incremental bidding mechanisms in e-markets, peer to peer infrastructure design for digital goods and privacy. In each of these illustrative example, I will sketch methodological approaches (e.g., markov decision processes, game theory, mathematical programming, statistical analysis) underlying the decision technologies and discuss opportunities for further work. The objective is to engender further interest in research opportunities at the intersection of computer science and OR/MS.

About the speaker

Ramayya Krishnan is the W. W. Cooper and Ruth F. Cooper Professor of Information Systems at Carnegie Mellon University. He has a B. Tech in Mechanical Engineering from the Indian Institute of Technology, Madras, a M.S. in Industrial Engineering and Operations Research and a PhD in Management Science and Information Systems from the University of Texas at Austin. He is faculty chair of the university’s Masters of Information Systems Management (www.mism.cmu.edu) program. Professor Krishnan’s research interests lie in problems that arise at the interface of technology, business and policy aspects of internet-enabled systems. His current research projects investigate the emergence of virtual communities in peer-to-peer networks, study intermediation in e-markets and the design of policies that take into account the competing needs of promoting data access and protecting privacy. His research on these topics is supported by the National Science Foundation, the Army Research Office, ARPA, and other private foundations.
Keynote 4: Recommenders for Commerce, Content, and Community  
Thursday, July 21, 2005, 08:50 - 10:15 am

Prof. John Riedl, PhD  
University of Minnesota  
Department of Computer Science

Abstract

Recommender systems are ubiquitous on the Internet for helping sell products -- everything from automobiles to zebras (stuffed, anyway). Novel applications are emerging that use recommenders for non-Internet applications, and that apply them to the problems of distributing content on the Internet and to developing online communities. Community-building is proving one of the most successful ways to create "stickiness" among customers. A vibrant community of practice around a company's products creates a powerful barrier to competition, and enables consumers to help sell and support your products. We will briefly survey Eight Principles of Recommender Systems, illuminated by examples from research and commerce. We will use the Principles to investigate the algorithms that underlie recommender systems, the interfaces for presenting the recommendations, the best practices for deploying them -- and the easiest ways to get a recommender system badly wrong. Along the way we will consider issues of how to build a recommender community from scratch, group recommendations, and consumer privacy. We will conclude with a look at some of the most important active research areas in recommender systems.

About the speaker

John Riedl has been a member of the faculty of the computer science department of the University of Minnesota since March 1990. In 1992 he co-founded the GroupLens Research project on collaborative information filtering, and has been co-directing it since. In 1998 he co-founded Net Perceptions to commercialize GroupLens. Net Perceptions was the leading recommender systems company during the Internet boom. In 1999, John and other Net Perceptions' co-founders shared the MIT Sloan School's award for E-Commerce Technology. They also shared the World Technology Award for being judged among the individual leaders worldwide who most contributed to the advance of emerging technologies for the benefit of business and society. John received a bachelor's degree in mathematics from the University of Notre Dame in 1983. He earned a master's degree in computer science in 1989 and a doctorate in computer science in 1990 from Purdue University. He is presently Professor at the University of Minnesota.

Keynote 5: The Power of Business Processes in E-Commerce  
Wednesday, July 20, 2005, during the CEC Banquet, 7 - 10 pm

Prof. Dr. Dr. h.c. mult. August-Wilhelm Scheer  
Institut für Informationssysteme (IWi)  
at the German Research Center for Artificial Intelligence

Abstract

New trends are characterising the E-Commerce environment: The market is consolidating and good business concepts no longer suffice for sustainable success. Instead, maxims of the old economy like cost-efficiency, turn-over and profit maximisation using known assets like business process management, innovation and collaborations are being focused. E-Commerce requires a good management of business processes since crucial processes are in direct interaction with customers. Innovation can be achieved through novel retail process-chains that are shorter and thus more efficient than those of conventional commerce. Furthermore, collaboration based on aligned business processes enables integrated products and services with a single interface to consumers. The competition is rising along with the market consolidation and causes shrinking margins. For the profit and turn-over maximisation it is therefore necessary to raise the amount of transactions and to achieve business process efficiency. The trend of individualisation calls for offer customisation to consumers and composes together with the amount of transactions the need of mass customisation. This challenge can be coped through the factory-like organisation of the old economy for the E-Commerce of tomorrow.

About the speaker

Prof. Dr. Dr. h.c. mult. August-Wilhelm Scheer is director of the Institute for Information Systems (IWi) at the German Research Center for Artificial Intelligence (DFKI). He is consulting professor at Tongji-University Shanghai as well as at the Chinese Academy of Science. His research focuses on information and process management in industry, services and administration. Prof. Scheer is the founder and chairman of the supervisory board of IDS Scheer AG as well as of irm, information multimedia communication AG, both based in Saarbrücken. He is the editor of various serial books and journals and organizes the conference "Saarbrücker Arbeitstagung" once a year. He has written more than 300 essays and more than 10 books. Among them are the standards "Business Process Engineering", "ARIS: Business Process Frameworks" and "ARIS: Business Process Modeling". These books have been translated into English, French, Japanese, Chinese, Russian, Czech and Polish.
Events Associated With IEEE CEC’05

Tuesday, July 19th: Information Systems Day (Tag der Wirtschaftsinformatik) and Conference Opening (Location: Audimax, TU München, Arcisstrasse 21)

In conjunction with the conference opening the Information Systems Day of the Technische Universität München takes place. You are invited to attend the accompanying speeches including the talk ‘The Impact of Services on E-Commerce’ by Stuart Feldman, Ph. D., Vice President, IBM Research, at 6 pm in the Audimax of the Main University Building, Arcisstrasse 21 which is located beside the main conference venue (for a detailed guide, please see page 32). The talks are followed by an acquaintance reception with snacks and drinks. Conference participants do not require a separate registration for the Information Systems Day.

Program schedule for the Information Systems Day:

Welcome by Prof. Dr. Johann Schlichter (Dean of the Faculty of Informatics at the TUM), Prof. Dr. Arndt Bode (Vice-President of the TUM), Prof. Dr. Martin Bichler (Internet-based Information Systems, IBIS), Prof. Dr. Helmut Krcmar (Information Systems) and Prof. Dr. Florian Matthes (Software Engineering for Business Applications, SEBIS)

Keynote by Stuart Feldman, Ph. D., Vice President, On Demand Business Transformation Area Strategist, IBM Research

The reception with drinks and finger food will start after the presentations and talks at approximately 8 pm in the foyer of the Audimax.

Wednesday, July 20th at 7 pm: CEC Banquet (Location: Ratskeller München, Marienplatz 8, Munich)

How to get there: From the conference venue you walk approx. 5 min to the Königsplatz where you take the subway U2 in the direction “Hauptbahnhof” (central station). The second station is Marienplatz. Here you leave the subway station via the exit “Marienplatz”. In the City Hall (Rathaus) you will easily find the historic restaurant Ratskeller. Alternatively you can take a walk (30 min) from the conference venue to the city center. Our meeting point is the inner courtyard of the City Hall at 7 pm.

Wednesday, July 20th 01.00-02.30 pm Panel Discussion:
“Research in E-Commerce and Enterprise Computing: E-Services and Beyond”

Chair: Kwai-Jay Lin (UC Irvine)
Participants: Umesh Dayal (HP Research), Stu Feldman (IBM Research), Lutz Heuser (SAP) (expected), Ramayya Krishnan (CMU), John Riedl (Univ. of Minnesota)

Business process integration and technologies around web services standards and service-oriented computing have been a driver for much recent innovation in e-commerce and enterprise computing. The goal is to enable plug-and-play cooperation among organizations. Research and development on inter workflow technology, service management, and (semantic) web services has already led to a range of products which aim at solving technical integration problems and making it possible for managers to glue together information systems for the purpose of coordinating business processes within and across company boundaries. The panel will discuss research in the field and future research challenges beyond e-services.

GI FB 5.5 Meeting (open to the public)
Friday, July 22nd at 9.45 - 11.15 am, Location: Room 4

Steering Committee Meeting (by invitation)
Friday, July 22nd at 11.30 am - 1.00 pm, Location: Room 4

IEEE CS TCEC Executive Committee meeting (by invitation)
Wednesday, July 20th 10.30 am - 12.00 am, Location: Room 4

TCEC Meeting (open to the public)
Thursday, July 21st at 4.30 - 6.00 pm, Location: Room 4

Information For Your Visit to Munich

Munich The third-largest German city, is the capital of Bavaria, the largest federal state of Germany. It has great art and cultural traditions with famous writers, artists, architects, and musicians who were born or lived in the region. Add to its beautiful architecture, green countryside, the second largest university in Germany, and the greatest beer culture on the planet. Apart from this short guide, a good starting point for your discovery of the city is http://www.munich.de/.

Getting around Munich has an excellent public transportation network, which includes tram, bus, metro (U-Bahn) and suburban train (S-Bahn). The U-Bahn stations are signed with a white capital “U” on a blue background; the S-Bahn stations are signed with a white capital “S” on a green background. Airport (german: Flughafen) trip will take you around 50 minutes from the city center (stops “Hauptbahnhof,” “Karisplatz/Staatsus,” “Marienplatz”) with S-Bahn S1 or S8. Be careful because the S1 trains split at Neufahrn with only back part of each train going to the airport. To get to the city center take Tram 27 to “Karisplatz/Staatsus” or metro U3 or U6 to “Marienplatz”. Usually you need to purchase a single ticket for your entire journey, even if you have to change several times on your way. The price depends on the amount of Zones you cross. The central part of the city and the conference cite are located within the Zone 1, and a single-trip ticket costs 2.20 euros. Alternatively you can purchase a short-trip (Kurzstrecke) ticket for 1.10 euros – if you travel for not more than 4 stops including not more than 2 stops with U-Bahn or S-Bahn. If you plan to make several trips a day within the Zone 1, better get a Day Ticket (Tageskarte) for 4.50 euros a day. An S-Bahn ticket to the airport (Zone 4) costs 8.80 euros one way. Tickets can be purchased at dispensing machines at every station. Don’t forget to stamp the tickets, otherwise they are not valid. These machines (Entwertner) are found at the entrance down to the S-Bahn or U-Bahn platform, and on the buses and trams. The Munich transportation website http://www.mvv-muenchen.de/ provides complete information and handy tools for planning your trip.

Taxis are usually easy to find and recognize in the city. There is no central phone line for booking a taxi, please ask at the hotel reception for your local number. Taxis are rather expensive; a trip within the city costs usually 10 to 20 euros, to the airport ca. 55 euros.

Sightseeing Munich is an architecturally beautiful city with a rich history, so making a city trip can be really entertaining. You can find several companies offering city bus sightseeing around the main train station (Hauptbahnhof), just look for parked double-deck buses. On the web check http://www.citysightseeing-munich.com/ for more information. Check out http://www.mikesbiketours.com/ or http://www.spurerwechsel-muenchen.de/ for details and booking.

Museums and Galleries Munich is a cultural metropolis with an impressive variety of world-renowned museums. The incomplete list includes three art galleries Alte...
Pinakothek, Neue Pinakothek and Pinakothek der Moderne, Antiquities Collection (Antikensammlung), famous Deutsches Museum, Egyptian Museum, one of the greatest Greek and Roman sculpture collections in Germany Glyptothek, expressionist art gallery Lenbachhaus. Visit the cultural section of http://www.munich.de for more information.

Shopping The city area between Marienplatz and Karlsplatz squares is the primary place to look for trendy shops. The nearby Theatiner Street hosts design highlights and expensive boutiques. A good collection of clothes shops can be found in the city area between U2/U8 stop Hohenzollernstrasse and U3/U6 stop Münchner Freiheit. If you want to find everything in one place, go the shopping malls PEP (U-Bahn stop Neuperlach Zentrum, U5), OEZ (U-Bahn stop Olympia Einkaufszentrum, U1) or Riem Arkaden (U-Bahn stop Messestadt Ost, U2). Check out the shopping section of the city website http://www.munich.de/ for more information.

Eating out The best place to find a good restaurant is the upscale academic district Schwabing, located between and around metro stations U3/U6 Universität and Münchener Freiheit, and reachable in 20-30 minutes from the conference location by feet. Walk along Leopoldstrasse and Türkensstrasse, you will find there good cafés and specialty restaurants from all over the world. Visit the Hofbräuhaus (http://www.hofbraeuhaus.de/) or ask at the Hotel desk for the nearest Biergarten to experience the local beer culture. A nice restaurant close to the conference location is the “Treszniewski” (http://www.treszniewski.de/), Theresienstrasse 72. Please ask for more recommendations on our conference registration desk.

Attractions Munich offers a variety of attractions for conference attendees. Some examples are: Visiting a Munich opera or concert by one of three international orchestras; guided tours of the various museums; trips to the nearby lakes and beautiful alpine countryside. It is also possible to take a tour to one or more of the famous Bavarian castles (Neuschwanstein, Hohenschwangau, Linderhof, Herrenchiemsee) built by King Ludwig II of Bavaria or visit some of the numerous baroque churches.

BUGA The national garden exhibition (Bundesgartenschau, BUGA) takes place in Munich through the summer 2005, and is definitely a place worth visiting. Take the U-Bahn U2 or U7 till Messestadt West stop to get there, see more details on http://www.buga2005.de.

The conference location is surrounded by world famous art galleries: Alte Pinakothek, Neue Pinakothek and Pinakothek der Moderne, Lenbachhaus and Glyptothek. Each of these are less than 300 m away from the conference site. Other museums such as the Deutsches Museum or The Bavarian National Museum can be easily reached by public transport within about 10-20 minutes.