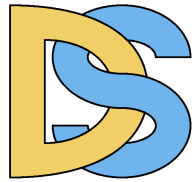




# The 13th International Conference on Algorithmic Learning Theory and



# The 5th International Conference on Discovery Science

Mövenpick Hotel, Lübeck, Germany

November 24 - 26, 2002

ALT '02 / DS '02 – Conference Program

The 13th International Conference on Algorithmic Learning Theory (ALT'02) and the 5th International Conference on Discovery Science will be held at the Mövenpick Hotel, Lübeck, Germany, November 24 – 26, 2002. The Conferences are sponsored by the Deutsche Forschungszentrum für Künstliche Intelligenz (DFKI) at Saarbrücken, by Corpo Base at Lübeck, by Jessen Lenz at Lübeck, and the University at Lübeck. Moreover, we are gratefully acknowledge the sponsorship by Mrs. Lisa Dräger who kindly agreed to fund the ALT 2002 E.M. Gold Award.

This ALT conference is the 13th in a series of annual meetings established in 1990. For more information concerning previous ALT meetings, we refer to the Archives of ALT conferences at

<http://www.tcs.uni-luebeck.de/pages/thomas/>

The ALT series is focusing on all areas related to algorithmic learning theory including (but not limited to): *the design and analysis of learning algorithms, computational models of machine learning (e.g., on-line learning, learning via queries, inductive inference, statistical learning), specific algorithmic approaches (e.g., margin-based algorithms, MDL estimation), learning complex models (e.g., neural networks, Bayesian networks, logical formulae, grammars, instance-based models), machine discovery, and applications of machine learning to other fields (e.g., data mining, web mining, bioinformatics).*

The ALT conference program comprises 26 lectures selected by its program committee.

This DS conference is the fifth in a series of annual meetings established by the Discovery Science Project of Japan in 1988. The DS conferences provide an open forum for intensive discussions and interchange of new information among researchers working in the area of Discovery Science including (but not limited to) the following topics: *logic for/of knowledge discovery, knowledge discovery by inferences, learning algorithms, and heuristic search, scientific discovery, knowledge discov-*

*ery in databases, data mining, knowledge discovery in network environments, active mining, inductive logic programming, abductive reasoning, machine learning, constructive programming as discovery, intelligent network agents, knowledge discovery from texts and from unstructured and multimedia data, statistical methods and neural networks for knowledge discovery, data and knowledge visualization, knowledge discovery and human interaction, human factors in knowledge discovery, philosophy and psychology of discovery; chance discovery, application of knowledge discovery to natural sciences such as bioinformatics, biology, chemistry and astronomy; application of knowledge discovery to social sciences such as economics, sociology, literature and music.*

The DS conference program comprises 17 lectures and 27 poster presentations selected by its program committee.

Additionally, we are fortunate to present five invited lectures by:

**Susumu Hayashi (Kobe University, Kobe, Japan)**

**John Shawe-Taylor (Royal Holloway, University of London)**

**Gerhard Widmer (Austrian Research Institute for Artificial Intelligence, Vienna)**

**Rudolf Kruse (University of Magdeburg, Germany)**

**Ian H. Witten (University of Waikato, Hamilton, New Zealand)**

which are shared by both conferences.

The E.M. Gold Award winner in 2002 is Daniel Reidenbach. Congratulations !!!

For any further information as well as for **registration**, we refer to the following web-pages:

<http://www.tcs.uni-luebeck.de/pages/alt02.html>

<http://www.dfki.de/~lange/ds2002.html>



## PROGRAM

### REGISTRATION:

Saturday, November 23, from 18.00 to 20:00 at the Mövenpick Hotel, Lübeck

Sunday, November 24, Morning

8.15–8.25: **Opening:** Rüdiger Reischuk

**SESSION 1:** Sunday, November 24, Morning

Chair: Masayuki Numao

8.30–9.30: **Invited Talk by Susumu Hayashi**

*Mathematics Based on Learning*

Short Break

**SESSION 2:** Sunday, November 24, Morning

**Inductive Inference I,**

Chair: Daniel Reidenbach

9.40–10.05: Gunter Grieser

*Reflective Inductive Inference of Recursive Functions*

10.05–10.30: Sanjay Jain, Wolfram Menzel, and Frank Stephan

*Classes with Easily Learnable Subclasses*

Coffee Break

**SESSION 3:** Sunday, November 24, Morning

**Learning Boolean Functions,**

Chair: Kai Ming Ting

10.55–11.20: Kazuyuki Amano and Akira Maruoka

*On Learning Monotone Boolean Functions under the Uniform Distribution*

11.20–11.45: Rocco A. Servedio

*On Learning Embedded Midbit Functions*

11.45–12.10: Nader H. Bshouty and Lynn Burroughs

*Maximizing Agreements and CoAgnostic Learning*

Lunch Break

**SESSION 4:** Sunday, November 24, Afternoon

Chair: Nicoló Cesa-Bianchi

13.30–14.30: **Invited Talk by John Shawe-Taylor**

*On the Eigenspectrum of the Gram Matrix and its Relationship to the Operator Eigenspectrum*

Short Break

**SESSION 5:** Sunday, November 24, Afternoon

**Learning and Information Extraction,**

Chair: Frank Stephan

14.40–15.05: Yusuke Suzuki, Takayoshi Shoudai, Tomoyuki Uchida, and Tetsuhiro Miyahara

*Ordered Term Tree Languages which are Polynomial Time Inductively Inferable from Positive Data*

15.05–15.30: Gunter Grieser and Klaus P. Jantke, and Steffen Lange

*Consistency Queries in Information Extraction*

Coffee Break

**SESSION 6:** Sunday, November 24, Afternoon

**Learning with Queries,**

Chair: Akira Maruoka

15.55–16.20: Johannes Köbler and Wolfgang Lindner

*A General Dimension for Approximately Learning Boolean Functions*

16.20–16.45: Johannes Köbler and Wolfgang Lindner

*The Complexity of Learning Concept Classes with Polynomial General Dimension*

16.45–17.10: Yuri Kalnishkan and Michael V. Vyugin

*On the Absence of Predictive Complexity for Some Games*

Dinner Break

20.00–20.45: **Business Meeting**

**SESSION 7:** Monday, November 25, Morning

Chair: Ken Satoh

8.30–9.30: **Invited Talk by Gerhard Widmer**

*In Search of the Horowitz Factor:*

*Interim Report on a Musical Discovery Project*

Short Break

**SESSION 8:** Monday, November 25, Morning

**Inductive Inference II,**

Chair: Thomas Zeugmann

9.40–10.05: Eric Martin, Arun Sharma, and Frank Stephan

*Learning, Logic and Topology in a Common Framework*

10.05–10.30: Valentina Harizanov, Frank Stephan

*On the Learnability of Vector Spaces*

Coffee Break

**SESSION 9:** Monday, November 25, Morning

**Statistical Learning I,**

Chair: John Shawe-Taylor

10.55–11.20: Michael Schmitt

*RBF Neural Networks and Descartes' Rule of Signs*

11.20–11.45: Vladimir Vovk

*Asymptotic Optimality of Transductive Confidence Machine*

11.45–12.10: Sanjoy Dasgupta, Elan Pavlov, and Yoram Singer

*An Efficient PAC Algorithm for Reconstructing a Mixture of Lines*

Lunch Break

**SESSION 10:** Monday, November 25, Afternoon

Chair: Rüdiger Reischuk

13.30–14.30: **Invited Talk by Ian H. Witten**

*Learning Structure from Sequences, with Applications in a Digital Library*

Short Break

**SESSION 11:** Monday, November 25, Afternoon

**Statistical Learning II,**

Chair: Susumu Hayashi

14.40–15.05: Sarel Har-Peled, Dan Roth, and Dav Zimak

*Constraint Classification: A New Approach to Multiclass Classification*

15.05–15.30: Dietrich Braess, Jürgen Forster, Tomas Sauer, and Hans U. Simon

*How to Achieve Minimax Expected Kullback-Leibler Distance from an Unknown Finite Distribution*

Coffee Break

**SESSION 12:** Monday, November 25, Afternoon

**Inductive Logic Programming,**

Chair: Setsuo Arikawa

15.55–16.20: Johannes Fürnkranz

*A Pathology of Bottom-Up Hill-Climbing in Inductive Rule Learning*

16.20–16.45: Bertram Fronhöfer and Akihiro Yamamoto  
*Minimised Residue Hypotheses in Relevant Logic*

Short Break

**SESSION 13:** Monday, November 25, Afternoon

**Language Learning,**

Chair: John Case

16.55–17.20: Daniel Reidenbach

*A Negative Result on Inductive Inference of Extended Pattern Languages*

17.20–17.45: Jin Uemura and Masako Sato

*Compactness and Learning of Classes of Unions of Erasing Regular Pattern Languages*

**Conference Dinner** from 8.00 pm on

**SESSION 14:** Tuesday, November 26, Morning

**Boosting and Margin-Based Learning,**

Chair: Andreas Jakoby

8.30–8.55: Dmitry Gavinsky

*Optimally-Smooth Adaptive Boosting and Application to Agnostic Learning*

8.55–9.20: Jyrki Kivinen, Alex J. Smola, and Robert C. Williamson

*Large Margin Classification for Moving Targets*

9.20–9.45: Jürgen Forster and Hans Ulrich Simon

*On the Smallest Possible Dimension and the Largest Possible Margin of Linear Arrangements Representing Given Concept Classes*

Coffee Break

**SESSION 15:** Tuesday, November 26, Morning

**Applications and Heuristics,**

Chair: Hans Ulrich Simon

10.10–10.35: Tony Lindgren and Henrik Boström

*Classification with Intersecting Rules*

10.35–11.00: Rémi Coulom

*Feedforward Neural Networks in Reinforcement Learning Applied to High-Dimension Motor Control*

Short Break

**SESSION 16:** Tuesday, November 26, Morning

Chair: Steffen Lange

11.10–12.10: **Invited Talk by Rudolf Kruse**

*Data Mining with Graphical Models*

12.30: Lunch

Adjorn



## PROGRAM

### REGISTRATION:

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**SESSION 1:** Sunday, November 24, Morning

Chair: Masayuki Numao

8.30–9.30: **Invited Talk by Susumu Hayashi**

*Mathematics Based on Learning*

Short Break

**SESSION 2:** Sunday, November 24, Morning

**Knowledge Discovery from Unstructured and Semi-structured Data,**

Chair: Ian H. Witten

9.40–10.05: Shayan Ghazizadeh and Sudarshan Chawathe

*SEuS: Structure Extraction Using Summaries*

10.05–10.30: Shunsuke Inenaga, Hideo Bannai, Ayumi Shinohara, Masayuki Takeda, and Setsuo Arikawa

*Discovering Best Variable-Length-Don't-Care Patterns*

Coffee Break

**SESSION 3:** Sunday, November 24, Morning

**Application of Discovery to Natural Science,**

Chair: Gunter Grieser

10.55–11.20: Luigi Palopoli, Giorgio Terracina

*Discovering Frequent Structured Patterns from String Databases: An Application to Biological Sequences*

11.20–11.45: Judith E. Devaney, John G. Hagedorn

*Discovery in Hydrating Plaster Using Machine Learning Methods*

11.45–12.10: Kazumi Saito, Stephen Bay, and Pat Langley

*Revising Qualitative Models of Gene Regulation*

Lunch Break

**SESSION 4:** Sunday, November 24, Afternoon

Chair: Nicoló Cesa-Bianchi

13.30–14.30: **Invited Talk by John Shawe-Taylor**

*On the Eigenspectrum of the Gram Matrix and its Relationship to the Operator Eigenspectrum*

Short Break

**SESSION 5:** Sunday, November 24, Afternoon

**Introductory Presentations of Poster Papers on Applications of Knowledge Discovery to Natural Sciences and on Knowledge Discovery from Texts**

Chair: Ayumi Shinohara

14.40–14.45: Salla Ruosaari and Jaakko Hollmén

*Image Analysis for Detecting Faulty Spots from Microarray Images*

14.45–14.50: Michiel de Hoon, Seiya Imoto and Satoru Miyano

*Inferring Gene Regulatory Networks from Time-ordered Gene Expression Data Using Differential Equations*

14.50–14.55: Daniele Masotti

*DNA-Tract Curvature Profile Reconstruction: A Fragment Flipping Algorithm*

14.55–15.00: Asanobu Kitamoto

*Evolution Map: Modeling State Transition of Typhoon Image Sequences by Spatio-temporal Clustering*

15.00–15.05: Jaroslava Halova, Premysl Zak, Pavel Stopka, Tomoaki Yuzuri, Yukino Abe, Kazuhisa Sakakibara, Hiroko Suezawa, and Minoru Hirota

*Structure-Sweetness Relationships of Aspartame Derivatives by GUHA*

15.05–15.10: Xiaoshan Fang and Huanye Sheng

*A Hybrid Approach for Chinese Named Entity Recognition*

15.10–15.15: Yoo-Jin Moon, Minkoo Kim, Youngho Hwang, and Kijoon Choi

*Extraction of Word Senses from Human Factors in Knowledge Discovery*

15.15–15.20: Fang Li, Huanye Sheng, and Dongmo Zhang

*Event Pattern Discovery from the Stock Market Bulletin*

15.20–15.25: Jihoon Yang and Sung-Yong Park

*Email Categorization Using Fast Machine Learning Algorithms*

15.25–15.30: Makoto Haraguchi, Shigetora Nakano and Masaharu Yoshioka

*Discovery of Maximal Analogies between Stories*

15.30–15.35: Yasuhiro Yamada, Daisuke Ikeda and Sachio Hirokawa

*Automatic Wrapper Generation for Multilingual Web Resources*

15.35–15.40: Yongguang Bao and Naohiro Ishii

*Combining Multiple  $k$ -Nearest Neighbor Classifiers for Text Classification by Reducts*

15.40–15.45: John Kontos, Areti Elmaoglou and Ioanna Malagardi

*ARISTA Causal Knowledge Discovery from Texts*

Coffee Break

**SESSION 6:** Sunday, November 24, Afternoon

16.00–18.00: **Poster Session for the papers from Session 5**

Dinner Break

20.00–20.45: **Business Meeting**

**SESSION 7:** Monday, November 25, Morning

Chair: Ken Satoh

8.30–9.30: **Invited Talk by Gerhard Widmer**

*In Search of the Horowitz Factor:*

*Interim Report on a Musical Discovery Project*

Short Break

**SESSION 8:** Monday, November 25, Morning

**Meta-learning and Analysis of Machine Learning Algorithms I,**

Chair: Klaus P. Jantke

9.40–10.05: Kai Ming Ting

*A Study on the Effect of Class Distribution Using Cost-Sensitive Learning*

10.05–10.30: Melanie Hilario

*Model Complexity and Algorithm Selection in Classification*

Coffee Break

**SESSION 9:** Monday, November 25, Morning

**Neural Networks and Statistical Methods,**

Chair: Hiroshi Motoda

10.55–11.20: David Danks

*Learning the Causal Structure of Overlapping Variable Sets*

11.20–11.45: Martin Holeña

*Extraction of Logical Rules from Data by Means of Piecewise-Linear Neural Networks*

11.45–12.10: Kazumi Saito and Ryohei Nakano

*Structuring Neural Networks through Bidirectional Clustering of Weights*

Lunch Break

**SESSION 10:** Monday, November 25, Afternoon

Chair: Rüdiger Reischuk

13.30–14.30: **Invited Talk by Ian H. Witten**

*Learning Structure from Sequences, with Applications in a Digital Library*

Short Break

**SESSION 11:** Monday, November 25, Afternoon

**Meta-learning and Analysis of Machine Learning Algorithms II,**

Chair: Gerhard Widmer

14.40–15.05: Tapio Elomaa, J. T. Lindgren

*Experiments with Projection Learning*

15.05–15.30: Yonghong Peng, Peter A. Flach, Carlos Soares, and Pavel Brazdil

*Improved Dataset Characterisation for Meta-Learning*

Coffee Break

**SESSION 12:** Monday, November 25, Afternoon

**Introductory Presentations of Poster Papers on Applications of Knowledge Discovery to Social Sciences, on Machine Learning Approaches, and on New Approaches to Knowledge Discovery**

Chair: Carl H. Smith

15.50–15.55: Francis Rousseaux and Alain Bonardi

*Knowledge Discovery as Applied to Music: Will Music Web Retrieval Revolutionize Musicology?*

15.55–16.00: Laura Maruster, Ton Weijters, Wil van der Aalst, and Antal van den Bosch

*Process Mining: Discovering Direct Successors in Process Logs*

16.00–16.05: Makoto Nakamura and Satoshi Tojo

*The Emergence of Artificial Creole by EM Algorithm*

16.05–16.10: Olivier Lartillot

*Generalized Musical Pattern Discovery by Analogy from Local Viewpoints*

16.10–16.15: Zhiwei Fu

*Using Genetic Algorithms-based Approach for Better Decision Trees: A Computational Study*

16.15–16.20: Frank Höppner

*Handling Feature Ambiguity in Knowledge Discovery from Time Series*

16.20–16.25: Haiyan Zhao, Zhenjiang Hu, Masato Takeichi

*A Compositional Framework for Mining Longest Ranges*

16.25–16.30: Alípio Jorge, João Poças, and Paulo Azevedo

*Post-processing Operators for Browsing Large Sets of Association Rules*

16.30–16.35: Takashi Matsuda, Hiroshi Motoda, Tetsuya Yoshida, and Takashi Washio

*Mining Patterns from Structured Data by Beam-wise Graph-Based Induction*

16.35–16.40: Mark-A. Krogel and Stefan Wrobel

*Feature Selection For Propositionalization*

16.40–16.45: Masaki Narahashi and Einoshin Suzuki

*Subspace Clustering Based on Compressibility*

16.45–16.50: Lorenzo Magnani, Matteo Piazza, and Riccardo Dossena

*The Extra-Theoretical Dimension of Discovery: Extracting Knowledge by Abduction*

16.50–16.55: Hitomi Saito and Kazuhisa Miwa

*Discovery Process on the WWW: Analysis Based on a Theory of Scientific Discovery*

16.55–17.00: Carlotta Piscopo and Mauro Birattari

*Invention vs. Discovery: A Critical Discussion*

Short Break

**SESSION 13:** Monday, November 25, Afternoon

17.15–19.15: **Poster Session for the papers from Session 12.**

**Conference Dinner** from 8.00 pm on

**SESSION 14:** Tuesday, November 26, Morning

**New Approaches to Knowledge Discovery,**

Chair: Gerhard Degel

8.30–8.55: Osamu Maruyama, Takayoshi Shoudai, and Satoru Miyano

*Toward Drawing an Atlas of Hypothesis Classes: Approximating a Hypothesis via Another Hypothesis Model*

8.55–9.20: Takashi Okada

*Datascape Survey Using the Cascade Model*

9.20–9.45: Ryutaro Ichise, Daniel Shapiro, and Pat Langley

*Learning Hierarchical Skills from Observation*

Coffee Break

**SESSION 15:** Tuesday, November 26, Morning

**Combining Machine Learning Algorithms,**

Chair: Setsuo Arikawa

10.10–10.35: Eibe Frank, Geoffrey Holmes, Richard Kirkby, and Mark Hall

*Racing Committees for Large Datasets*

10.35–11.00: Cesar Ferri, Jose Hernández-Orallo, and Maria Jose Ramírez Quintana

*From Ensemble Methods to Comprehensible Models*

Short Break

**SESSION 16:** Tuesday, November 26, Morning

Chair: Steffen Lange

11.10–12.10: **Invited Talk by Rudolf Kruse**

*Data Mining with Graphical Models*

12.30: Lunch

Adjorn

## Acknowledgments

### Conference Chair ALT2002:

Rüdiger Reischuk (Univ. of Lübeck)

### Conference Chair DS2002:

Carl H. Smith (Univ. of Maryland, USA)

### Local Arrangement Chairs:

Andreas Jakoby and Thomas Zeugmann (University of Lübeck, Germany)

### ALT 2002 Program Committee:

Nicolò Cesa-Bianchi (Chair, Univ. Milano, Italy)

Masayuki Numao (Chair, Tokyo Institute of Technology, Japan)

Naoki Abe (IBM, Yorktown, USA)

Hussein Al-Muallim (KFUPM, Saudi Arabia)

Peter Auer (TU Graz, Austria)

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Claudio Gentile (Univ. Insubria, Italy)

Boonserm Kijirikul (Chulalongkorn Univ., Thailand)

Robert Schapire (AT& T Labs., USA)

Kai Ming Ting (Monash University, Australia)

Rolf Wiehagen (Univ. Kaiserslautern, Germany)

The continuing success of these ALT-meetings has been managed and supervised by its

### ALT Steering Committee:

Thomas Zeugmann (Univ. at Lübeck, Chair)

Arun Sharma (Univ. of New South Wales, Sydney, Australia, Co-Chair)

Naoki Abe (IBM Thomas J. Watson Research Center, Yorktown, USA)

Peter Bartlett (Australian National Univ., Canberra, Australia)

Klaus Peter Jantke (DFKI, Saarbrücken, Germany)

Roni Khardon (Tufts University, Medford, USA)

Phil Long (National Univ. of Singapore)

Heikki Mannila (Nokia Research Center)

Akira Maruoka (Tohoku Univ., Sendai, Japan)

Luc De Raedt (Albert-Ludwigs-Univ. Freiburg, Germany)

Takeshi Shinohara (Kyushu Institute of Technology, Iizuka, Japan)

Osamu Watanabe (Tokyo Institute of Technology, Japan)

and the current PC Chairs, who are one-year members of the ALT steering committee, i.e.,

Nicolò Cesa-Bianchi (Univ. Milano, Italy)

Masayuki Numao (Tokyo Institute of Technology, Japan)

## DS 2002 Program Committee:

Steffen Lange (Co-chair, DFKI GmbH, Germany)  
Ken Satoh (Co-chair, National Institute of Informatics, Japan)  
Diane J. Cook (Univ. of Texas at Arlington, USA)  
Andreas Dengel (DFKI GmbH, Germany)  
Peter A. Flach (Univ. of Bristol, UK)  
Gunter Grieser (TU Darmstadt, Germany)  
Achim Hoffmann (UNSW, Australia)  
Klaus P. Jantke (DFKI GmbH, Germany)  
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Yukio Ohsawa (Tsukuba Univ., Japan)  
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Kenji Yamanishi (NEC Co. Ltd., Japan)

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## DS Steering Committee:

Setsuo Arikawa (Kyushu University, Japan)  
Klaus Peter Jantke (DFKI, Germany)  
Masahiko Sato (Kyoto University, Japan)  
Ayumi Shinohara (Kyushu University, Japan)  
Carl H. Smith (Univ. of Maryland, College Park, USA)  
Thomas Zeugmann (Univ. at Lübeck, Germany)

## Conference Information

**Location:** The Mövenpick Hotel is located in the city center, close to the famous Holstentor. It is only a five minute walk away from the main railway station in Lübeck and from the old part of the city.

The local arrangement committee of ALT/DS 2002 has made a special arrangement with the Mövenpick Hotel for your accommodation. Please make your reservations directly with the hotel before October 10, 2002 to get the special rate of 90,00 € (single occupancy) or 110,00 € (double occupancy) (standard category) or of 100,00 € (single occupancy) or 120,00 € (double occupancy) (superior category). These prices include breakfast.

For making your reservation you need a fax form which will provide you, in particular, the reference Group. This fax form is sent to you after you have registered.

**Weather:** Weather at the end of November is usually rapidly changing. It may be still not too cold and sunny, but it may be also cold and rainy. The average temperature is approximately 3° Celsius.

### Getting to the conference site:

There are several ways to reach Lübeck. The airport at Hamburg offers various connections to international airports. From the airport, a bus shuttle is going to Hamburg main railway station.

Information about the trains running between Hamburg and Lübeck as well as between other cities and Lübeck is available online.

If you prefer to reach the conference site by car, take the Autobahn A1 running from Hamburg and Bremen to Lübeck and then further north to Puttgarten. Leave the A1 at the exit "Lübeck-Zentrum" and then follow the map which is also available online.

<http://www.tcs.uni-luebeck.de/pages/alt02.html>

### Accommodation:

All participants are encouraged to stay at the Mövenpick Hotel. Please indicate in your registration what type of room you prefer (single or double).

### Registration:

Please complete the registration form at our web-site (either online or by printing it out):

<http://www.tcs.uni-luebeck.de/pages/alt02.html>

If you prefer not to register on-line, please return your registration form by email, ordinary mail or fax (by October 24, 2002 to enjoy the early registration fee) to:

Dr. Andreas Jakoby  
Universität zu Lübeck  
Institut für Theoretische Informatik  
Wallstr. 40  
23560 Lübeck, Germany  
email: [jakobyl@tcs.mu-luebeck.de](mailto:jakobyl@tcs.mu-luebeck.de)  
Fax: +49-451-7030-438

**We look forward to seeing you in Lübeck.**