



CogSys2010

Travel Kit

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Sponsors

We like to thank our sponsor, the EC Project BACS (Bayesian Approach to Cognitive Systems) for the generous support:



Organized by

ETH Zürich and University of Zürich



1 Some Important Facts about CogSys2010

Conference site

CogSys2010 will be held in the HG building (= main building) of ETH's main campus in down-town Zurich (see map and travel information in Section 2).

Please wear your badge visible (coffee breaks..)..

Important dates

Wednesday, 27 th January – Thursday, 28 th January 2010	Conference
Wednesday, 27 th January 2010, 5.10 pm	Poster session
Wednesday, 27 th January 2010, 7.15 pm	Banquet
Thursday, 28 th January 2010, 5.00 pm	Goodbye Drink

Opening hours of the registration desk

Wednesday, January 27 th , 2010	08.30 – 19.30
Thursday, January 28 th , 2010	08.45 – 16.30

Phone, fax and e-mail at registration desk

Phone: +41 44 632 90 20

Fax: +41 44 632 90 21

E-mail: cogsys2010@bacs.ethz.ch

Wireless LAN

Use the public WLAN

Login: cogsys

Password: CogSys10

2 Travel Information

From Zurich Airport (Kloten)

After reclaiming baggage, follow the signs "Bahn/Railway" to ticket counters and machines. There are English instructions on the machines; follow them or simply press the left (red) key at the bottom where it says "Zurich City". The machine accepts coins as well as banknotes and gives change. The ticket is valid during the next hour for any train to Zurich as well as for the trams and buses in the city (streetcar / tram).

Train:

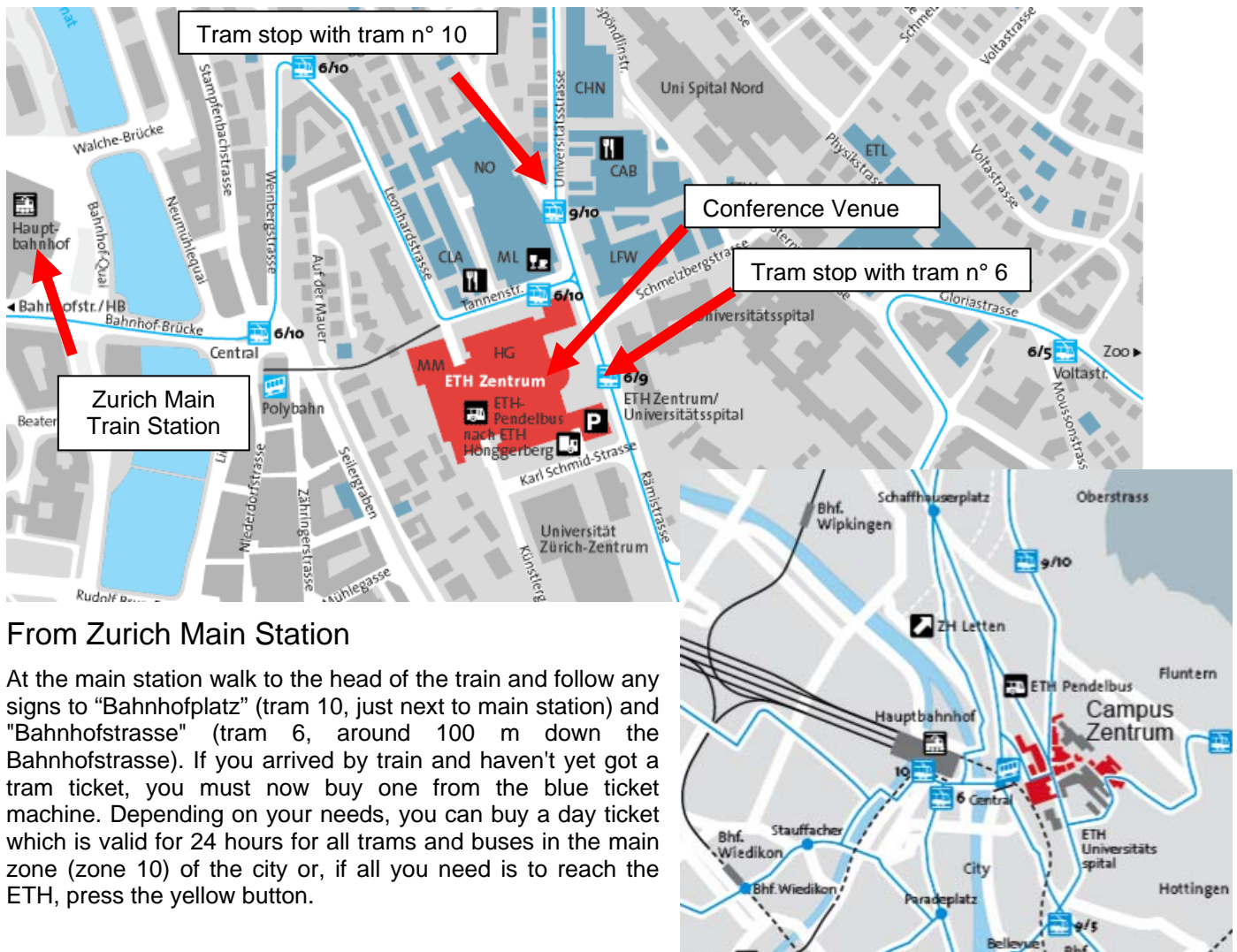
Take an escalator down to the platforms 3 or 4. Trains to city centre leave approx. every 10 minutes and take about 10 minutes to reach Zurich main station (Zurich HB). You can also purchase a 24 hour ticket for all trains, trams, and buses in Zurich by making the appropriate selection on the machine. More info is available on <http://www.vbz.ch>.

Tram:

Follow the signs to tramway "Zürich Flughafen Bahnhof". Buy a ticket for 3 zones. Depending on your needs, you can buy a day ticket valid for 24 hours for all trams and buses in the main zone. Departure with tramway No.10: From station "Zürich Flughafen, Bahnhof" to direction "Bahnhofplatz/HB" (Center). The tramway departs every 15 minutes between 6 AM and 23 PM. Exit after 31 minutes at station "ETH /Universitätsspital".

Taxi:

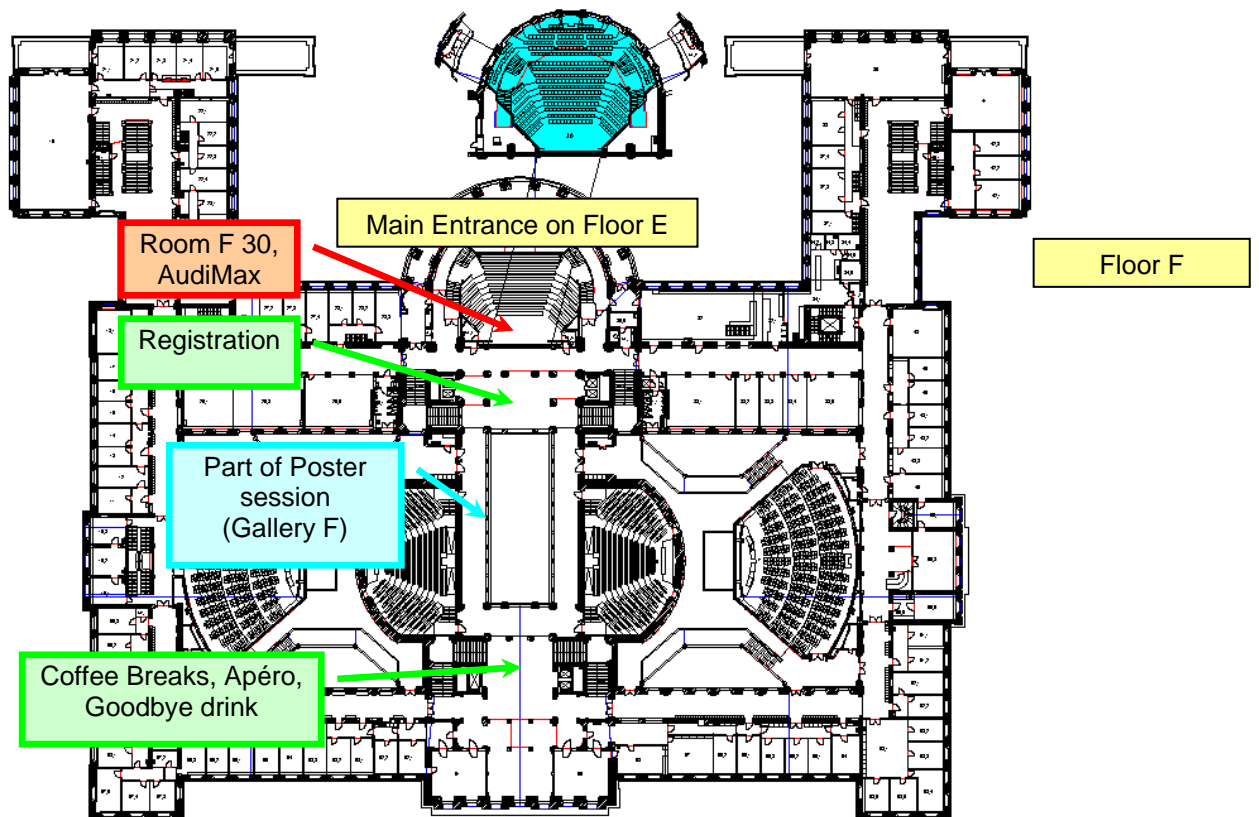
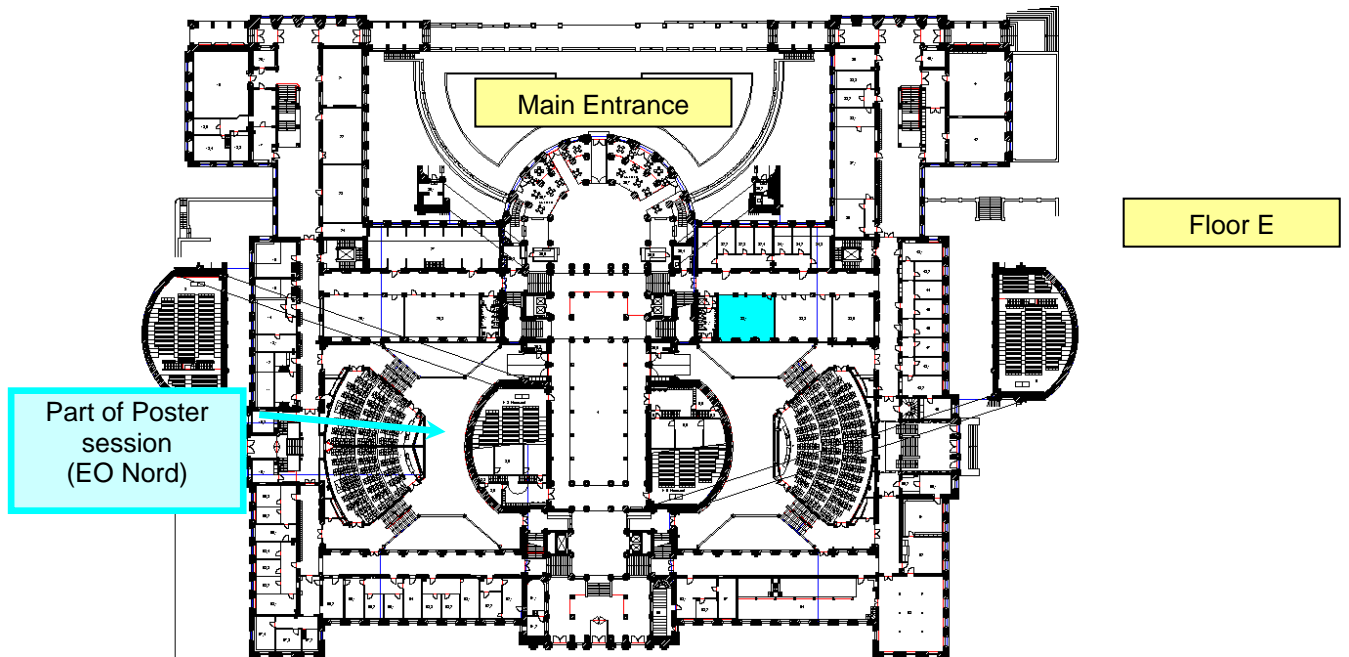
You may also take a taxi directly to ETH Zentrum (the down-town campus). It costs around 50-60 sFr. However, during rush hour trains are faster and always cheaper.



From Zurich Main Station

At the main station walk to the head of the train and follow any signs to "Bahnhofplatz" (tram 10, just next to main station) and "Bahnhofstrasse" (tram 6, around 100 m down the Bahnhofstrasse). If you arrived by train and haven't yet got a tram ticket, you must now buy one from the blue ticket machine. Depending on your needs, you can buy a day ticket which is valid for 24 hours for all trams and buses in the main zone (zone 10) of the city or, if all you need is to reach the ETH, press the yellow button.

Location of Registration Desk, Auditorium, Poster Sessions and Coffee Breaks



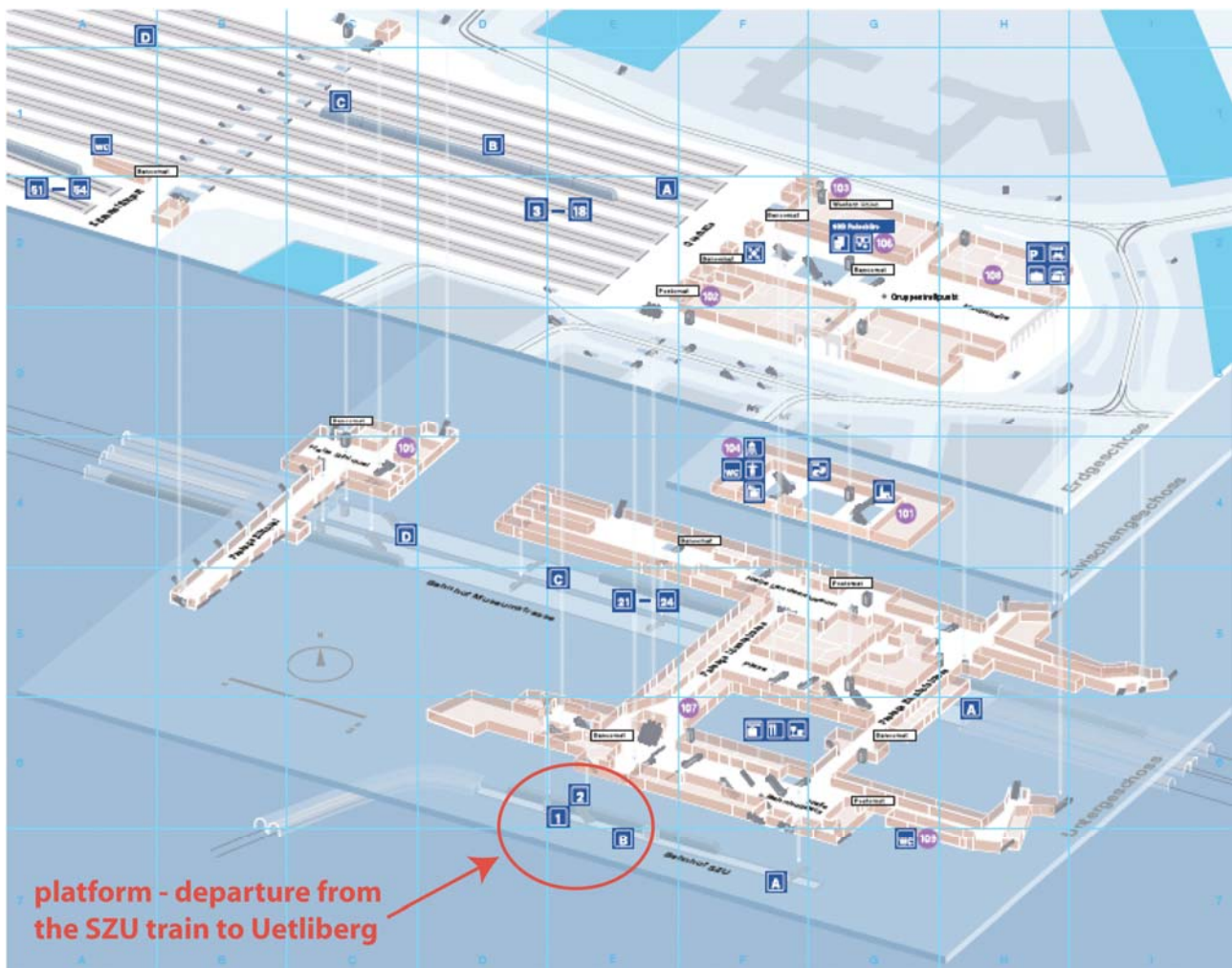
4 The Banquet Site

The banquet will be held on Wednesday, 27th January 2010, at hotel Uto Kulm, which is located on a small mountain called Uetliberg offering a panoramic view of the entire city of Zürich including the Lake. (<http://www.utokulm.ch/>)

How to get there

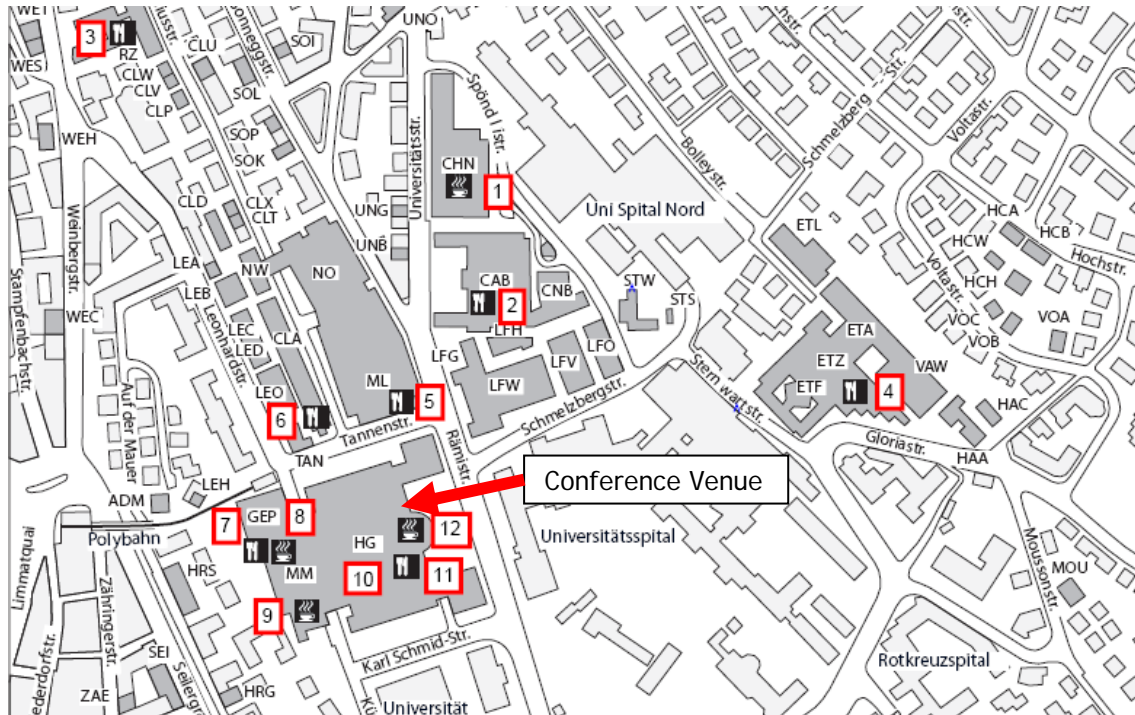
To reach the banquet location, you have to take a train from Zürich main station (Hauptbahnhof). You will get the train ticket at the registration desk with the rest of the material or – depending on the delivery of the tickets – it will be given to you at the train station. This train is the **S10** from the special Sihltal – Zürich – Uetliberg (SZU) train line. It leaves from platform 2, which is located on the lower level of the main station at the southern edge of the area (see map below). A special train booked exclusively for COGSYS2010 conference participants will leave the station at **19:15**. If unfortunately you would miss this train, regular trains are scheduled every half-hour (every 05 and 35 from 9:00 to 22:00) and take about 20 minutes to reach the final station: Uetliberg. To get back to Zürich after the banquet, you can take the same train, which leaves Uetliberg every 06 and 36 until 23:00 (last departure: 23:36, don't miss it!).

If – for any reasons – you don't have a ticket, don't enter the trains without, but get a return-ticket to "Uetliberg". Otherwise the penalty fees are up to 100 CHF.



5 Restaurants at the Conference Site

There are various restaurants and snack bars on ETH Zentrum campus. The menu of the day costs around 11 sFr. Restaurants and snack bars are listed below and are indicated on the map. You can find more information on the following website: <http://www.gastro.ethz.ch/>.



Nr	Name	Building	Open
1	CHN Bistro	CHN	Mo – Fr 08.00 – 16.00
2	Restaurant foodLAB	CAB	Mo – Fr 08.30 – 15.30
3	Informatikbar	IFW	Mo – Fr 08.00 – 16.30
4	Gloriabar	ETZ	Mo – Fr 07.30 – 16.30
5	Tannenbar	ML	Mo – Fr 07.00 - 17.00
6	Clausiusbar	CLA	Mo – Fr 07.30 – 16.00
7	Mensa Polyterrasse (main canteen)	MM B	Mo – Fr 11.15 – 13.30,
8	Cafeteria Polyterrasse	MM C	Mo – Fr 06.45 – 19.45
9	bQm	MM C	Mo – Th 11.30 – 22.00; Fr – 20.00
10	Dozentenfoyer, faculty club (restricted access)	HG J	Mo – Fr 09.00 – 16.30
11	Polysnack	HG F	Mo – Fr 07.30 – 17.00
12	CafeBar	HG Entrance Hall	Mo – Fr 07.00 – 19.00

6 Guidelines and Equipment for Presentations

- **Please contact your chairman before the start of your session.**
- Each presentation is scheduled according to the program. Please prepare your presentation accordingly.
- The presentation room will be equipped with an overhead projector and a beamer for presenting from your own laptop. If you need specific equipment, please inform us well in advance (dellacasa@mavt.ethz.ch).
- We will have an ETHZ/UniZ staff member (red T-shirt) to help you with all technical and organizational issues.
- Please inform us as soon as possible if you have any problem with your presentation time.

7 Other Useful Information

WEF (World Economic Forum)

- 27th – 31st January 2010 in Davos

For further information: <http://www.weforum.org/en/events/index.htm>

Climate

- The climate in Switzerland is usually pretty cold at the end of January, it may be sunny but it may also rain or snow. You should expect temperatures between -3°C and 3°C. January is an excellent season for skiing!

Sightseeing in Zürich and Switzerland

- Zürich offers various attractions and museums and has a nice down-town shopping area. Here are some highlights:
 - Kunsthaus – Switzerland's most important art gallery contains a collection from all the important periods of European art – from the Middle Ages through to the present.
 - Rietberg Museum – the museum houses non-European art, particularly from India, China and Africa.
 - Bahnhofstrasse – the mile-long street of banks featuring exclusive fashion boutiques is the place to go shopping.
 - Zurich Zoo – Tram 6 will take you uphill to get a beautiful view of Zürich City, with the possibility to take a very nice walk to the impressive Zurich Zoo.
 - Old town – full of art galleries, antique and book shops, roaming in the old town is a pleasant way to discover the historical side of Zurich.
 - Niederdorf - during the day this is a pedestrian zone and a shopper's paradise with lots of boutiques hidden away in a patchwork of alleys. At night the many bars, restaurants and street artists turn the Niederdorf into an exciting and colorful center of entertainment.
- Finally, Zürich can be considered as the gateway to the Alps. For more information please have a look to the tourist office web site: <http://www.zuerich.com>. Further information will also be available at the registration desk or at your hotel.

Power Plugs

- Be aware that Switzerland has an own power plug system. So please bring your international plug with you.
- We have a limited number of plug adapters to be given out for a deposit

8 Technical Program of CogSys2010

Wednesday, January 27, 2010

09:00 Registration and Welcome Coffee

09:30 Opening of Conference, Roland Siegwart & Rolf Pfeifer

09:40 EU Initiative Cognitive Systems, Interaction, Robotics
Libor Kral, Head of Unit E5

10:00 Keynote Talk 1 (Chairman: Cedric Pradalier)

J. Kevin O'Regan, "How to Make a Robot that Feels"

10:50 Auditory and Visual Sensing (Chairman: Cedric Pradalier)

DIRAC	Detection and Identification of Rare Audio-visual Cues <i>Fabian Nater</i>
POP	Perception on Purpose <i>Radu Horaud</i>
SEARISE	Smart Eyes: Attending and Recognizing Instances of Salient Events <i>Daniel Oberhoff</i>
SCANDLE	Acoustic Scene Analysis for Detecting Living Entities <i>Susan Denham</i>

12:10 Lunch

13:30 Keynote Talk 2 (Chairman: Rolf Pfeifer)

Yasuo Kuniyoshi, "Towards Emergence of Meaning in Embodied Cognitive Systems"

14:20 Multi-Robot Systems (Chairman: Rolf Pfeifer)

JAST	Joint-Action Science and Technology <i>Ruud Meulenbroek</i>
HERMES	Human-Expressive Representations of Motion and their Evaluation in Sequence <i>Michael Breitenstein</i>
sFly	Swarm of Micro Flying Robots <i>Davide Scaramuzza</i>
URUS	Ubiquitous Networking Robotics in Urban Settings <i>Alberto Sanfeliu</i>

15:40 Coffee Break

16:10 Natural Languages and Content Analysis (Chairman: Rolf Pfeifer)

POETICON	The "Poetics" of Everyday Life: Grounding Resources and Mechanisms for Artificial Agents <i>Katerina Pastra</i>
CLASS	Cognitive-Level Annotation Using Latent Statistical Structure <i>Vittorio Ferrari</i>
ITALK	Integration and Transfer of Action and Language Knowledge in Robots <i>Angelo Cangelosi</i>

17:10 Poster Session (In front of AudiMax)

19:15 Departure at train station for Conference Banquet (Uetliberg)

Thursday, January 28, 2010

09:20 Keynote Talk 3 (Chairman: Rudolph Triebel)

Benjamin Kuipers, "*How Can a Robot Learn the Foundations of Knowledge?*"

10:10 Robotics

ECCEROBOT	Embodied Cognition in a Compliantly Engineered Robot <i>Owen Holland</i>
ROSSI	Emergence of Communication in Robots through Sensorimotor and Social Interaction <i>Anna Maria Borghi</i>

10:50 Coffee Break (AudiMax)

11:20 Sensory-Motor Systems (Chairman: Rudolph Triebel)

CogX	Cognitive Systems that Self-Understand and Self-Extend <i>Jeremy Wyatt</i>
DIPLECS	Dynamic Interactive Perception-Action Learning in Cognitive Systems <i>Liam Ellis</i>
ROBOSKIN	Skin-based Technologies and Capabilities for Safe, Autonomous and Interactive Robots <i>Giorgio Cannata</i>
PACO-PLUS	Perception, Action und Cognition through Learning of Object-Action Complexes <i>Norbert Krüger</i>

12:40 Lunch

14:00 Keynote Talk 4 (Chairman: Thierry Buecheler)

Karl Grammer "*Analogue Communication and the Emergence of Meaning*"

14:50 Special Projects

EUROP / euRobotics	<i>The European Robotics Technology Platform</i> <i>Anne Wendel</i>
ECHORD	<i>European Clearing House for Open Robotics Development</i> <i>Alois Knoll / Norberto Pires</i>

15:10 Coffee Break

15:40 Neuro-Science and Bio-Inspired Systems (Chairman: Thierry Buecheler)

BACS	Bayesian Approach to Cognitive Systems <i>Pierre Bessiere</i>
Decisions-in-Motions	Neural Decision-Making in Motion <i>Florian Raudies</i>
SPARK II	Spatial-Temporal Patterns for Action-Oriented Perception in Roving Robots II: An Insect Brain Computational Model <i>Paolo Arena</i>
ChiRoPing	Developing Versatile and Robust Perception Using Sonar Systems that Integrate Active Sensing, Morphology <i>John Hallam</i>

17:00 Closing of Conference, Goodbye Drinks

9 Poster Session (Wednesday, 27th January 2010, 5.10 pm in front of AudiMax and Foyer EO-Nord)

The posters will be displayed during the whole duration of the conference and therefore also accessible during the coffee and lunch breaks.

No	Poster / Authors
Auditory and Visual Sensing	
10	<i>Learning invariances from examples</i> by Rolf Würtl
11	<i>Evaluation of Agent Motion in Video: Online Tracking-by-Detection</i> by Michael Breitenstein, Bastian Leibe, Luc Van Gool
18	<i>Stereo Vision for Cognitive Robotics Tasks: Navigation, Localisation, Attention and Detection</i> by Markus Vincze
26	<i>Induction of the Human Perception-Action Hierarchy Employed in Junction-Navigation Scenarios</i> by Affan Shaukat, David Windridge, Erik Hollnagel, Luigi Macchi, Josef Kittler
29	<i>A Virtual Reality Tool for Benchmarking Active Stereo Vision Systems in the Peripersonal Space</i> by Manuela Chessa, Silvio Sabatini, Fabio Solari
36	<i>A new cognitive object detection and orientation system for impaired people</i> by Guillermo Peris Fajarnes, LARISA DUNAI, Victor Santiago Praderas, Ion Dunai
40	<i>Tracker trees: hierarchies to spot rare events</i> by Fabian Nater, Helmut Grabner, Tobias Jaeggli, Luc Van Gool
42	<i>Tracking Known and Unknown Human Activities</i> by John Darby, Baihua Li, Costen P Nicholas
52	<i>3D Object Class Recognition: Using the web as knowledge repository</i> by Walter Wohlkinger
60	<i>A Bayesian Hierarchy as a Model of Human Active Visuoauditory Perception</i> by João Ferreira, Alexandre Malhão, Miguel Castelo-Branco, Jorge Dias
64	<i>Learning object tracking in image sequences</i> by Michael Felsberg, Fredrik Larsson
66	<i>Social Force Based Motion Prediction</i> by Matthias Luber, Johannes A. Stork, Gian Diego Tipaldi, Kai O. Arras
74	<i>Towards robust scene analysis: A versatile mid-level feature framework</i> by Engel David, Cristobal Curio
77	<i>Representing Ultrasonic Maps Using Active Snake Contours</i> by Kerem Altun, Billur Barshan
82	<i>SCOVIS project</i> by Emmanuel Sardis
86	<i>European Robotic Pedestrian Assistant (POSTER)</i> by Cyrill Stachniss, Wolfram Burgard
99	<i>Software architecture and middleware for artificial cognitive systems</i> by Johan Wiklund, Klas Nordberg, Michael Felsberg
100	<i>Structure and ground plane extraction from optical flow</i> by Vasileios Zografos
105	<i>Biologically Inspired Reactive Optical Flow for Control of Flying Micro Air Vehicles</i> by Stowers John, Friedrich Fraundorfer
110	<i>Plant Detection, Mapping and Discrimination for Autonomous Agricultural Robots</i> by Ulrich Weiss
115	<i>Human motion classifier based on Laban Movement Analysis</i> by Luís Santos, Jorge Dias
123	<i>Bio-inspired vision system for depth perception in humanoids</i> by Flavio Mutti, Giuseppina Gini
134	<i>Visual Human - Robot Interaction within the INDIGO project</i> by Haris Baltzakis, Maria Pateraki, Panos Trahanias
137	<i>The Virtual Facial Mirror project: Revealing Dynamic Facial Self-Perception in Humans</i> by Mario Kleiner, Martin Breidt, Cristobal Curio
144	<i>Semantic-aided visual grasping using a fuzzy description logic</i> by Vitucci Nicola, Mario Arrigoni Neri, Giuseppina Gini
150	<i>Evaluation of Stereo Reconstruction for 3D Mapping</i> by Francois Pomerleau, Francis Colas
Learning	
25	<i>Motivated Learning as an Extension of Reinforcement Learning</i> by Janusz Starzyk, Pawel Raif, Ah-Hwee Tan
41	<i>Self-organized chaos through heterostatic optimization</i> by Dimitrije Markovic, Claudius Gros
49	<i>Coherent oscillations and learning-related reorganization of spike timing</i> by Karim Benchenane, Adrien Peyrache, Mehdi Khamassi, Patrick Tierney, Vincent Douchamps, Francesco Battaglia, Sidney Wiener
51	<i>Prediction of Pushing Affordances using Recurrent Neural Networks</i> by Sergio Roa, Geert-Jan Kruijff
56	<i>A learning by imitation model handling multiple constraints and motion alternatives</i> by Sylvain Calinon
84	<i>Using Geometric and Algebraic Properties of Bayesian Networks to Predict the Behavior of Others</i> by Rainhard BENGEZ
89	<i>Unsupervised learning of sensorimotor representations</i> by Daniel Weiller, Robert Martin, Peter König
90	<i>Unsupervised learning of canonical image features</i> by Robert Martin, Cornell Schreiber, Johannes Schumacher, Thomas Lampe, Madhusudhana Rao, Daniel Weiller, Peter König
102	<i>Information Driven Self Organisation of Physically embedded controllers</i> by Fabio Bonsignorio
117	<i>Learning Driving Behaviour using Holistic Image Descriptors</i> by nicolas pugeault, Richard Bowden
127	<i>Robot-assisted learning of redundant tasks</i> by Angelo Basteris, Lino Bracco, Vittorio Sanguineti
130	<i>Synergy-based affordance learning for robotic grasping</i> by Tao Geng, James Wilson, Mark Lee
142	<i>On the Motor Learning of "Fully Dynamic Systems"</i> by Liyu Wang, Nandan Maheshwari, Keith Gunura, Fumiya lida

No	Poster / Authors
Multi-Robot Systems and Collaboration	
8	<i>Goal Inferencing And Error Detection In Joint Action</i> by Ruud Meulenbroek
16	<i>Adaptive navigation in a heterogeneous swarm robotic system</i> by Frederick Ducatelle, Gianni Di Caro, Luca Gambardella
30	<i>CHRIS project: Cooperative Human Robot Interaction Systems</i> by Giorgio Metta
31	<i>Towards Cooperative Cognitive Control for Autonomous Underwater Vehicles (AUV)</i> by Andreas Birk
38	<i>Evaluating Human-Robot Teamwork in a Mixed Reality Environment</i> by Jurriaan van Diggelen, Nanja Smets, Mark Neerinx
39	<i>Managing situated dialogue in collaborative activity</i> by Geert-Jan Kruijff, Miroslav Janicek
94	<i>Approach and Handover for Human-Robot Interaction</i> by Patrizia Basili
97	<i>Joint and Individual Walking in an Immersive Collaborative Virtual Environment</i> by Stephan Streuber, Astros Chatziastros, Heinrich Buelthoff, Stephan de la Rosa
98	<i>Living with Robots and Interactive Companions</i> by Patricia Vargas, Peter W. McOwan
107	<i>When to assist? - A human model for hybrid assembly systems</i> by Markus Huber, Helmuth Radrich, Cornelia Wendt, Stefan Glasauer, Alois Knoll, Berthold Färber, Thomas Brandt
116	<i>SoPHIE: Social Robotic Platform for Human Interactive Experimentation</i> by José Prado, Jorge Lobo, Jorge Dias
131	<i>Collective Perception in a Robotic Swarm</i> by Giuseppe Morlino, Elio Tuci, Vito Trianni
133	<i>Agent-Space Architecture</i> by Andrej Lucny
146	<i>Numerical Analysis of Morphological Influence on Self-Assembly Robots</i> by Maurice Göldi, Tientcheu Nguabeu Aubery Marchel, Shuhei Miyashita, Rolf Pfeifer
149	<i>Achieving Self-Sorting In Self-Assembly Systems</i> by Tientcheu Nguabeu Aubery Marchel, Maurice Göldi, Shuhei Miyashita, Ruedi Fuchsli, Rolf Pfeifer
Natural languages and content analysis	
2	<i>ITALK: Integration and Transfer of Action and Language Knowledge in robots - Project Progress</i> by Cangelosi Angelo
4	<i>Follow the white rabbit, or how complexity science and linguistics can inform AI</i> by Michal B. Paradowski
46	<i>How to build a machine that people enjoy talking to</i> by Marc Schröder, Roddy Cowie, Dirk Heylen, Maja Pantic, Catherine Pelachaud, Björn Schuller
75	<i>PRAXICON: a grounded, compositional and generative concept world</i> by Katerina Pastra
81	<i>Contents-oriented Dynamic Service Composition Framework for Networked Cognitive Robots</i> by Woo Young Kwon, Gi Hyun Lim, Il Hong Suh, Kyoung Jin Kim
96	<i>Language sensorimotor informativeness enhances situated simulation</i> by Barbara Marino, Vittorio Gallese, Patricia Gough, Giovanni Buccino, Lucia Riggio
125	<i>Abstract and concrete sentences, embodiment and languages</i> by claudia scorolli, Ferdinand Binkofski, Giovanni Buccino, Roberto Nicoletti, Lucia Riggio, Anna Borghi
136	<i>Emergence and Evolution of Human Communication Systems</i> by Angel Stone
141	<i>ECHOES: Technology-Enhanced Learning for Exploring and Improving Social Interaction Skills</i> by Katerina Avramides, Sara Bernardini, Jingying Chen, Mary Ellen Foster, Christopher Frauenberger, Oliver Lemon, Kaska Porayska-Pomsta
151	<i>FaceBots: Shared Memories and Shared Friends towards meaningful long-term HRI</i> by Nikolaos Mavridis, Michael Petychakis, Wajahat Kazmi, Panos Toulis
Neuro-Science and Bio-Inspired	
6	<i>Bio-plausible robot control via the Mirror Neuron System</i> by Serge Thill, Boris Duran, Paul Hemeren, Tom Ziemke
9	<i>ConsScale: A Cognitive Scale Inspired on Consciousness</i> by Raul Arrabales, Agapito Ledezma, Araceli Sanchis
17	<i>Modelling the mirror neuron system with dynamic fields</i> by Boris Duran, Serge Thill, Tom Ziemke
20	<i>Do robots have goals? How agent's morphology influences goal attribution in marmoset monkeys</i> by Aleksandra Kupferberg
28	<i>A Joint Bioinspired Architecture for Fast Optic Flow and Two-dimensional Disparity Estimation</i> by Manuela Chessa, Silvio Sabatini, Fabio Solari
45	<i>Affective Interaction with an Expressive Robot</i> by Nadia Magnenat-Thalmann, Zerrin Kasap, Maher Ben Moussa
47	<i>Smart Biosonar Sensors from Bats -- the ChiRoPing Project</i> by J Hallam, Herbert Peremans, Annemarie Surlykke, Robert B Fisher, Elisabeth K V Kalko, Peter Møller Juhl
50	<i>Emotion and Metacontrol</i> by Ricardo Sanz, Carlos Hernández, Guadalupe Sánchez, Adolfo Hernando
54	<i>Neural mechanisms in motion transparency and figure-ground segregation to control visual navigation</i> by Heiko Neumann, Florian Raudies, Mark Greenlee, Pieter Roelfsema, Antonio Frisoli
55	<i>Grid continuation in the Entorhinal Cortex</i> by multimodal integration by Gábor Szirtes, Andras Lorincz
58	<i>Psychological State Estimation During Robot Assisted Gait Training</i> by Alexander Koenig, Ximena Omlin, Lukas Zimmerli, Carmen Krewer, Mark Sapa, Friedemann Müller, Robert Riener
70	<i>Realistic circuit modeling: large-scale simulations of the cerebellar granular layer</i> by Egidio D'Angelo, Sergio Solinas, Eduardo Ros, Jesus Garrido, Henrik Jorntell, Patrick van der Smagt
71	<i>Enhancing Companion Dialogue with Episodic Memory</i> by Gregor Sieber, Brigitte Krenn

No	Poster / Authors
72	<i>Robotic applications of LSAM: Large-Scale Analog Model of the Cerebellum Based on Reverse-engineering</i> by Martin Nilsson, Henrik Jorntell, Patrick van der Smagt
80	<i>Hierarchical Analysis on Cognitive Systems</i> by Shuhei Miyashita, Atsushi Aoyama, Mikiro Nawa, Jin Higashijima, Kei Sakamoto, Tomoko Nozoye, Takayuki Kobayashi
83	<i>Neuromorphic Models of Selective Attention for Controlling Actuated Silicon Retinas</i> by Daniel Sonleithner, Giacomo Indiveri
87	<i>State-Dependent computation on distributed networks of silicon spiking neurons</i> by Emre Neftci, Elisabetta Chicca, Giacomo Indiveri, Rodney Douglas
88	<i>The Role of Body and Tool Based Information on Joint Action Performance</i> by Stephan Streuber
91	<i>Recognition of asynchronous cognitive events from EEG</i> by Nicolas Bourdaud, Ricardo Chavarriaga, José del R. Millán
95	<i>ARMin and VR in Peripersonal Space To Improve Rehabilitation of Paretic Arm</i> by Katherine Grace August, Marco Guidali, Verena Klamroth-Marganska, Robert Riener
108	<i>A device to explore neural correlates of grasp training therapy</i> by Bogdan Vigar, Julio Duenas, Olivier Lambercy, Dominique Chapuis, Roger Gassert
124	<i>Human Awareness to Interface Errors Improves HCI Performance</i> by Andrea Biasiucci, Ricardo Chavarriaga, Kilian Förster, Daniel Roggen, Gerhard Tröster, José del R. Millán
128	<i>The Epistemic Control Loop</i> by Ricardo Sanz, Carlos Hernández, Manuel Rodríguez
129	<i>Coupling Human's Brain Cognitive Signals and Computer Vision</i> by Marija Uscumlic, Ricardo Chavarriaga, José del R. Millán
143	<i>Cognitive Modelling of Infant Development</i> by Frank Guerin
147	<i>Learning to cope with uncertainty without knowing it: The hippocampus and a bayesian model of belief</i> by Sara Gonzalez Andino, Rolando Grave de Peralta, Pierre Bessiere, Jacques Droulez, Juan M. Ahuactzin, Helene Tzieropoulos
148	<i>Amygdala induced plasticity in an integrated computational model of the two phase theory of cond</i> by Martin Inderbitzin
153	<i>A neural circuit to read out the temporal population code</i> by Andre Luvizotto, Cesar Renno-Costa, Paul F. M. J. Verschure
Robotics	
13	<i>Grasping by Parts: Robot Grasp Generation from 3D Box Primitives</i> by Kai Hübner, Danica Kragic
15	<i>Learning Task Constraints in Robot Grasping</i> by Dan Song
19	<i>Autonomous construction by mobile robot in unknown environments with scarce resources</i> by Stéphane Magnenat, Francesco Mondada
27	<i>Cognition for a Purpose - Cognitics for Control</i> by Jean-Daniel Dessimoz
34	<i>RobotCub: Robotic Open-Architecture Technology for Cognition, Understanding, and Behaviours</i> by Giorgio Metta
37	<i>Semi-autonomous navigation of an assistive robot</i> by Xavier Perrin, Roland Siegwart
43	<i>Robotic Evolutionary Self-Programming and Self-Assembling Organisms</i> by Serge Kernbach
48	<i>From continuous analog to discrete symbolic representations of the world in optimal foraging: a robo</i> by Encarni Marcos, Martí Sánchez Fibla, Paul F. M. J. Verschure
59	<i>Cognitive Challenges in Snake Robotics</i> by Aksel A. Transeth, Pål Liljebäck, Sigurd A. Fjerdings, Erik Kyrkjebø
61	<i>Recent developments in the DEXMART European project</i> by Bruno Siciliano
65	<i>Position Control of a Quadrotor with Visual Inputs</i> by Gim Hee Lee, Friedrich Fraundorfer, Marc Pollefeys
68	<i>Autonomous Inventory - A Cognitive Approach</i> by Lutz Frommberger, Diedrich Wolter, Torsten Hildebrandt
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