

# VSMM 2009

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15<sup>th</sup> International Conference on Virtual Systems and Multimedia

September 9-12, 2009  
Vienna, Austria

## Program





VSM 2009  
 September 9th – September 12th, 2009  
 Vienna, Austria

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### Conference Chairs

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<i>Martin Kampel</i>	<i>Vienna University of Technology</i>	<i>AT</i>

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### Conference Secretariat

VSM 2009, Institute of Computer Aided Automation  
 Vienna University of Technology  
 Favoritenstraße 9/1832  
 1040 Vienna  
 AUSTRIA  
 Email: vsmm09@prip.tuwien.ac.at

### Sponsors

We thank the following companies and organizations for supporting VSM 2009

Austrian Airlines  
 Austrian Computer Society  
 International Association for Pattern Recognition (IAPR)  
 Vienna University of Technology

### Registration

	Onsite Rate:
Member of the IAPR	EUR 500 ,-
NoN Member of the IAPR	EUR 550 ,-
Student	EUR 350 ,-
Additional Conference Dinner	EUR 60,-

## VSM09 AT A GLANCE

### Wednesday, September 9th, 2009

- 15:30 Registration
- 16:00 **Abstracts 1:** Collaborative Environments and user interface design (Abstracts)
- 16:00 VSMM Board of Directors Meeting
- 18:00 Get Together

### Thursday, September 10th, 2009

- 08:30 Registration
- 09:00 Opening
- 09:15 **Keynote 1:** David G. Stork
- 10:00 **Session 1:** 3D Reconstruction from 2D in CH
- 10:50 Coffee Break
- 11:05 **Session 2:** 3D Reconstruction & Modeling for CH
- 12:20 Lunch Break
- 14:00 **Session 2:** 3D Reconstruction & Modeling for CH (cont.)
- 15:40 Coffee Break
- 16:00 Trip to Schönbrunn and Cafe Gloriette
- 18:00 Reception at Gloriette

### Friday, September 11th, 2009

- 08:30 Registration
- 09:00 **Session 3:** Human Factors, Virtual Environments and Edutainment  
**Abstracts 2:** 2D Analysis and Music
- 10:40 Coffee Break
- 10:55 **Session 4:** Media Arts and Digital Performance  
**Abstracts 3:** 3D and 4D Reconstruction for CH
- 12:35 Lunch Break
- 14:00 **Keynote 2:** Susan Bryan
- 14:45 **Session 5:** Cultural Heritage and Museum Environments
- 15:35 Coffee Break
- 15:50 **Session 6:** Document Analysis  
**Abstracts 4:** Virtual Heritage
- 20:00 Conference Dinner

### Saturday, September 12th, 2009

- 08:30 Registration
- 09:00 **Session 7:** 3D Reconstruction, Design and Rendering and Vision Applications  
**Workshop 1:** 3D Knowledge Technologies for Cultural Heritage Applications
- 10:40 Coffee Break
- 10:55 **Session 8:** Augmented Reality, Gaming and Education  
**Workshop 1:** 3D Knowledge Technologies for Cultural Heritage Applications (cont)
- 12:35 Lunch Break
- 14:00 **Workshop 2:** Serious Games in Cultural Heritage
- 16:30 Coffee Break
- 15:45 VSMM Prize and Closing
- 19:00 Heuriger Evening (Optional)

### Sunday, September 13th, 2009

- 9:00 Boat Trip to Castle Ruin Dürnstein (Optional)  
Departure of coach from the conference venue

VSM09 TIME TABLE

	Wednesday Sept. 9th, 2009	Thursday Sept. 10th, 2009	Friday Sept. 11th, 2009	Saturday Sept. 12th, 2009
08:30				
09:00		Registration	Registration	Registration
09:30		Keynote 1	Session 3	Session 7
10:00		Session 1	Abstract 2	Workshop 1
10:30				
11:00		Session 2	Session 4	Session 8
11:30			Abstract 3	Workshop1, cont
12:00		Lunch	Lunch	Lunch
12:30				
13:00				
13:30				
14:00		Session 2, cont	Keynote 2	
14:30			Session 5	Workshop 2
15:00			Session 5	
15:30	Registration			VSMM Prize, Closing
16:00			Abstract 4	
16:30	Abstract 1	Schönbrunn		
17:00	BoD			
17:30				
18:00				
18:30	Get Together			
19:00				
19:30			Conference Dinner	Heuriger Event (Optional)
20:00				

**VSMO09 Program in Detail**

**Wednesday, September 9th, 2009**

15:30 Registration

**Abstracts 1, 16:00 – 17:40**

**Collaborative Environments and user interface design**

Location: E18

Chair: Martin Lettner

16:00 "An information sharing system for exhibitions using mobile phones"  
Koji Yamada, Keiichi Yoshinaga, Akira Ishida

16:25 "Thermal Sensation Tactile Graphics - Expansion of Tactile Graphics Expression by  
Overlaying Thermal Sensation"  
Takahiro Kobayashi, Masami Hirabayashi, Tomomi Kasahara, Fumitaka Kimizuka,  
Shunsuke Matsushima, and Mika Fukumori

16:50 "Mixed Reality Interaction"  
Chi Kei Cheung and Zhe Lou

17:15 "City Game: Utilizing Photos as Location-aware Interface"  
Masami Hirabayashi

16:00 **VSMO Board of Directors Meeting**

18:00 **Get Together**

**Thursday, September 12th, 2009**

08:30 **Registration**

09:00 Opening  
Robert Sablatnig

**Keynote 1, 9:15 - 10:00**  
**Prof. David G. Stork**

Location: E17

Chair: Robert Sablatnig

09:15 "Computer Graphics for the Analysis of Realist Master Art: Current Methods and Future Challenges"  
David G. Stork

**Session 1, 10:00 – 10:50**  
**3D Reconstruction from 2D in CH**

Location: E17

Chair: Robert Sablatnig

10:00 "Reconstruction of a Three-Dimensional Tableau from a Single Realist Painting"  
Wai L. Khoo, Tadeusz Jordan, David G. Stork, and Zhigang Zhu

10:25 "e-Restoration of Faces Appearing In Cultural Heritage Artefacts"  
Andreas Lanitis and Georgios Stylianou

**10:50 Coffee Break**

**Session 2, 11:05 – 12:20**  
**3D Reconstruction & Modeling for CH**

Location: E17

Chair: David G. Stork

11:05 "Synthesizing Large and Incomplete Roman Sculptures - Working Beyond the Models"  
Pilar Merchán, Santiago Salamanca, Emiliano Pérez, Antonio Adán, Ricardo Chacón,  
and Vicente Domínguez

11:30 "3D Modeling (to Understand) Palladio - Deconstruction, Reconstruction, Modeling of La Rotonda"  
Andrea Cammarata

11:55 "Survey and 3D Reconstruction of the St. Orso Capitals in Aosta, through Three-Focal Photogrammetry"  
P. Salonia, S. Scolastico, A. Marcolongo, and T. Leti Messina

**12:20 Lunch Break**



**Session 2, cont., 14:00 – 15:40**  
**3D Reconstruction & Modeling for CH**

Location: E17

Chair: David G. Stork

- 14:00 “Niabara - The Western Solomon Islands War Canoe at the British Museum - 3D Documentation, Virtual Reconstruction and Digital Repatriation”  
Mona Hess, Stuart Robson, Francesca Simon Millar, Graeme Were, Edvard Hviding, and Arne Cato Berg
- 14:25 “The Elephant Stone - Tracing a New Path for the Digital Approach to Unsurveyable Monuments”  
Giorgio Verdiani, Federico Piras, and Giovanni Guccini
- 14:50 “Geodesic Approach to an Artefact - 3D Scanner Virtual Modeling versus Archaeological Tracings (First Part)”  
Mercedes Farjas, Francisco J. García-Lázaro, Daniel Jiménez, Jean J. Bondier, Julio Zancajo Jimeno, and Jorge Martínez Moreno
- 15:15 “Integration of TLS Data and Non-metric Imagery to Improve Photo Models and Recording - A Case Study on Djin Block No. 9, Petra (Jordan)”  
Santiago Navarro, Ana Elena Seguí, Cristina Portalés, José Luis Lerma, Talal Akasheh, and Naif Haddad
- 15:40 **Coffee Break**
- 16:00 **Trip to Schönbrunn and Café Gloriette**
- 17:30 **Catch the miniature train through the marvellous park of château Schönbrunn**
- 18:00 **Reception at Gloriette**
- 19:15 **Walk through the park to château Schönbrunn (10min walking time)**
- 20:00 **Classical concert in the château on request**

**Friday, September 11th, 2009**

8:30 Registration

**Session 3, 9:00 – 10:40**

**Human Factors, Virtual Environments and Edutainment**

Location: E17

Chair: Hermon Sorin

- 9:00 "Autonomic Nervous System Factors Underlying Anxiety in Virtual Environments: A Regression Model for Cybersickness"  
Susan Bruck and Paul A. Watters
- 9:25 "Real Design of a Virtual Landscape - Designing and Building a Landscape in Second Life"  
Stef Gard and Marisha McAuliffe
- 9:50 "Design and Development of a Virtual Reality Application for Edutainment in Cultural Heritage"  
Lucio T. De Paolis, Giovanni Aloisio, Maria G. Celentano, Luigi Oliva, and Pietro Vecchio
- 10:15 "Lorsch Abbey and the London Charter - An Information System for a World Heritage Site"  
Joyce Wittur and Susanne Krömker

**Abstracts 2, 9:00 – 10:40**

**2D Analysis and Music**

Location: E18

Chair: Florian Kleber

- 9:00 "Interactive Installation: Colour Visualization of MIDI Music"  
Bojan Klemenc, Peter Ciuha
- 9:25 "On Color Optimization for Image Compression and Representation"  
Evgeny Gershikov, Moshe Porat
- 9:50 "A Vector Quantization Approach to Multimedia Systems"  
Moshe Porat
- 10:15 "Recognizing Degraded Characters for Paleographical Studies"  
Markus Diem and Robert Sablatnig
- 10:40 **Coffee Break**

**Session 4, 10:55 – 12:35**

**Media Arts and Digital Performance**

Location: E17

Chair: Lerma José Luis

- 10:55 "From Landscape to Soundscape"  
Philippe Codognet and Gilbert Nouno
- 11:20 "Presence - The Integration of Classical Artistic Media in a Smart Space Prototype"  
Narvika Bovcon, Aleš Vaupotic, Franc Solina, Borut Batagelj, and Damir Deželjin

- 11:45 "Virtual Historic Costume across Cultures and Disciplines"  
Kathi Martin and Hyeong-Seok Ko
- 12:10 "Action Room: A Low-Cost Hypermedia Platform for Experimental Performances and Spectacles"  
Manthos Santorineos and Stavroula Zoi

**Abstracts 3, 10:55 – 12:35**  
**3D and 4D Reconstruction for CH**

Location: E18  
Chair: N.N.

- 10:55 "3-Dimensional Documentation of the Hadrians Temple in Ephesus"  
Ursula Quatember, Robert Kalasek, Bernd Breuckmann, and Christiane Bathow
- 11:20 "The three-dimensional model as the support for the documentation and planning of Historic Center of Baku (Republic of the Arzebajian)"  
L. Baratin and D. Peloso
- 11:45 "A comparative study of 3d scanning techniques of ancient statues and their outcomes - a case study"  
Sorin Hermon, Franco Niccolucci, Denis Pitzalis, Paola Ronzino, Maria Hadjicosti
- 12:10 "Supporting numismatic studies by 3D representations of coins"  
Sebastian Zambanini
- 12:35 **Lunch Break**

**Keynote 2, 14:00 – 14:45**  
**Prof. Susan Bryan**

Location: E17  
Chair: Martin Kampel

- 14:00 "Toy Story Mania: Making Disney's First 3D Interactive Dark Ride"  
Susan Bryan

**Session 5, 14:45 – 15:35**  
**Cultural Heritage and Museum Environments**

Location: E17  
Chair: Martin Kampel

- 14:45 Heritage 4 - A 4D Cultural Heritage Management System  
Bernhard Snizek and Thorbjørn König
- 15:10 Analysis of Users' Access to Museums Websites - Comparison of Weblogs  
Gil Fuentetaja and M. Economou
- 15:35 **Coffee Break**

**Session 6, 15:50 – 17:55**

**Document Analysis**

Location: E17

Chair: N.N.

- 15:50 “Recto-verso Registration, Enhancement and Segmentation of Ancient Documents”  
G. Bianco, F. Bruno, A. Tonazzini, E. Salerno, and E. Console
- 16:15 “Automatic Transcription of Handwritten Medieval Documents”  
Andreas Fischer, Markus Wüthrich, Marcus Liwicki, Volkmar Frinken, Horst Bunke,  
Gabriel Viehhauser, and Michael Stolz
- 16:40 “Torn Document Analysis as a Prerequisite for Reconstruction”  
Florian Kleber, Markus Diem, and Robert Sablatnig
- 17:05 “Translating Journalists' Requirements into Features for Image Search”  
Julian Stöttinger, Jana Banova, Thomas Pönitz, Nicu Sebe, and Allan Hanbury
- 17:30 “GPU Based Optical Character Transcription for Ancient Inscription Recognition”  
Hubert Mara, Jan Hering, and Susanne Krömker

**Abstracts 4, 15:50 – 17:30**

**Virtual Heritage**

Location: E18

Chair: N.N.

- 15:50 “Virtual World Exploration: Traditional Arctic Life in Northern Canada”  
Richard Levy, Peter Dawson
- 16:15 “Digital recording tools in conservation of heritage places”  
M. Santana Quintero and B. van Genechten
- 16:40 “Virtual Journeys Through Space and Time”  
Sabry El-Hakim, Jean-Francois Lapointe, Emily Whiting
- 17:05 “Metadata for Architectural Contents in Europe”  
Stefan Boeykens, Mario Santana Quintero, Herman Neuckermans
- 20:00 **Conference Dinner**

**Saturday, September 12th, 2009**

8:30 Registration

**Session 7, 9:00 – 10:40**

**3D Reconstruction, Design and Rendering and Vision Applications**

Location: E17

Chair: Farjas Mercedes

- 9:00 "A Multi-view Dense Reconstruction for Rock Glacier Modelling"  
Javier de Matías Bejarano, José Moreno del Pozo, and José J. Guerrero Campo
- 9:25 "Non-Phantom Point Cloud Reconstruction Based on Visual Hull"  
Xu Zhao, Shujun Zhang, and Wei Wu
- 9:50 "SpaceQueries Design Toolset - Pointcloud-Based Multi-directional Real-Time Swarm Architecture Design Exploration"  
Christian Friedrich
- 10:15 "Realistic Interactive Pedestrian Simulation and Visualization for Virtual 3D Environments"  
N. Brändle, T. Matyus, M. Brunnhuber, G. Hesina, H. Neuschmied, and M. Rosner

**Workshop 1, 9:00 – 10:40**

**3D Knowledge Technologies for Cultural Heritage Applications**

Location: E18

Chair: Marios Pitikakis

- 9:00 "Introduction to the workshop: the FOCUS K3D initiative"  
Michela Spagnuolo, Bianca Falcidieno
- 9:20 "3D-COFORM - Tools and Expertise for 3D Collection Formation"  
Franco Niccolucci
- 9:40 "The e-documentation of the Past in 3D: A Challenge and a Risk for the Present and the Future (Invited Talk)"  
Marinos Ioannidis
- 10:20 "Serious Games in Cultural Heritage Field"  
Francesco Bellotti, Riccardo Berta and Alessandro De Gloria
- 10:40 **Coffee Break**

**Session 8, 10:55 – 12:35**

**Augmented Reality, Gaming and Education**

Location: E17

Chair: N.N.

- 10:55 "Supporting Awareness and Attention with Flip-Board Based Presentations in Videoconferencing for Distance Education"  
Kikuo Asai, Kimio Kondo, and Hideaki Kobayashi
- 11:20 "Cultural Heritage Layers: Integrating Historic Media in Augmented Reality"  
Michael Zoellner, Jens Keil, Timm Drevensek, and Harald Wuest

- 11:45 "Embedding Interactive Storytelling within Still and Video Panoramas for Cultural Heritage Sites"  
Karol Kwiatek and Martin Woolner
- 12:10 "Predicting the Behavior of Game Players - Space Syntax and Urban Planning Theory as a Predictive Tool in Game Design"  
Richard M. Levy, Mary Grantham O'Brien, and Annika Aorich

**Workshop 1, cont., 10:55 – 12:35**  
**3D Knowledge Technologies for Cultural Heritage Applications**

Location: E18

Chair: Marios Pitikakis

- 10:55 "Virtual Humans in Cultural Heritage projects"  
Patrick Salamin
- 11:15 "Integrating 3D digital technologies for CH: issues and perspectives"  
Andrea D'Andrea, Franco Niccolucci
- 11:35 "A semantic-based framework for managing, searching and retrieving 3D resources"  
Marios Pitikakis, Chiara Catalano
- 12:05 "Knowledge technologies in Cultural Heritage (position statement)"  
Manolis Vavalis
- 12:20 Open discussion
- 12:35 **Lunch Break**

**Workshop 2, 14:00 – 16:30:**  
**Serious Games in CH**

Location: E17

Chair: Riccardo Berta

- 14:00 "Cultural Heritage, User Interfaces and Serious Games at CTU Prague"  
Zdenek Mikovec, Pavel Slavik, and Jiri Zara
- 14:25 "Serious Games in Heritage Challenges at Mação"  
Gonçalo Leite-Velho and Luiz Oosterbeek
- 14:50 "Serious Games & Cultural Heritage: A Case Study of Prehistoric Caves"  
Damien Djaouti, Julian Alvarez, Olivier Rampoux, Vincent Charvillat, and Jean-Pierre Jessel
- 15:15 "Designing Cultural Heritage Contents for Serious Virtual Worlds"  
Francesco Bellotti, Riccardo Berta, Alessandro De Gloria, Giulia Panizza, and Ludovica Primavera
- 15:40 "Personalising Content Presentation in Museum Exhibitions - A Case Study"  
Ed S. Tan and Katri Oinonen
- 16:05 "City and Spectacle: A Vision of Pre-earthquake Lisbon"  
Alexandra Gago da Câmara, Helena Murteira, and Paulo Rodrigues
- 16:30 **Coffee Break**

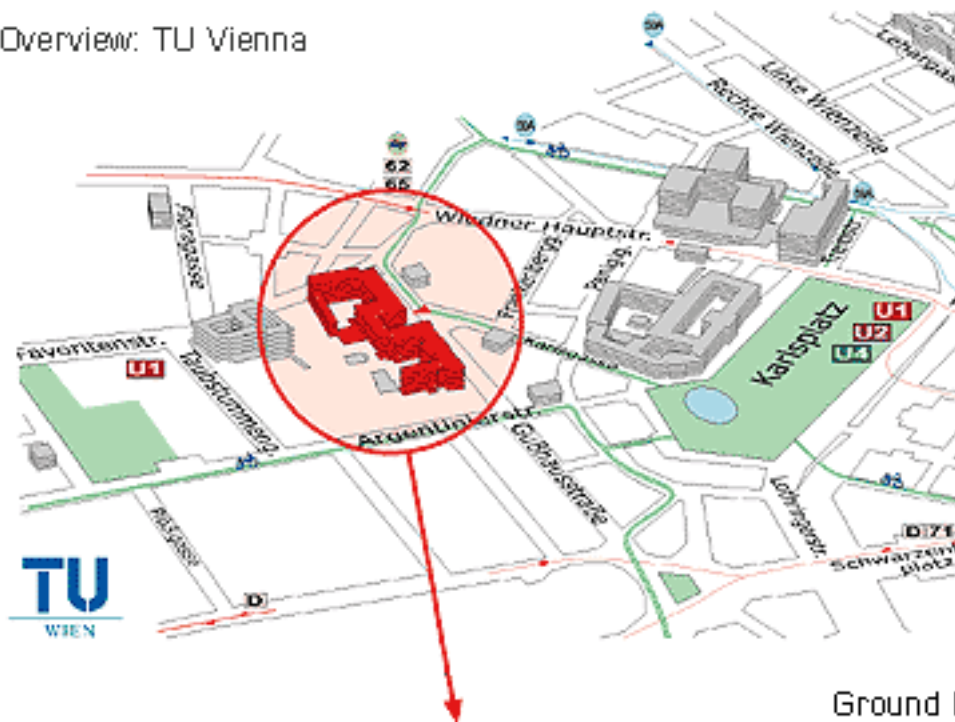
16:45 **VSMC Prize and Closing**

19:00 **Heuriger Event (Optional)**

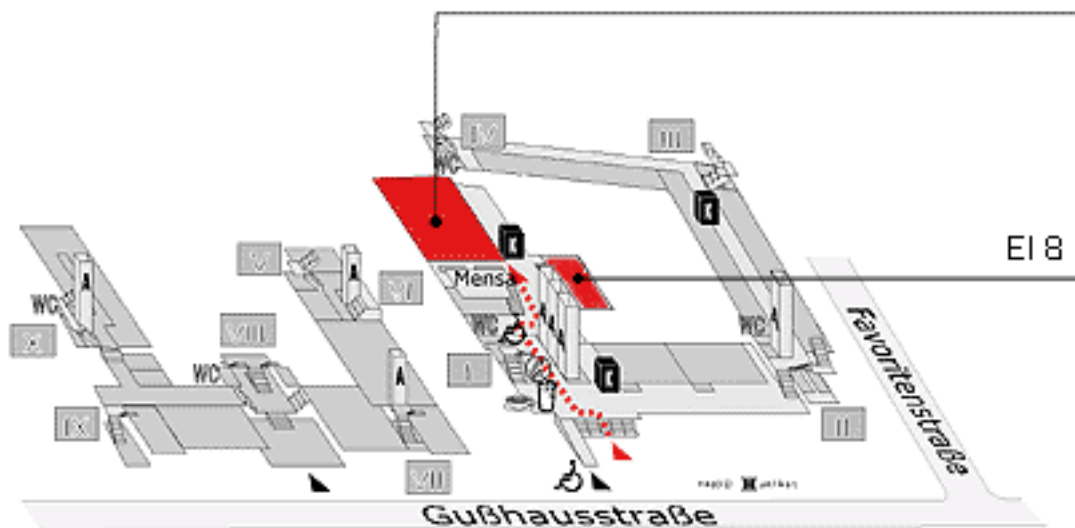
## Conference Venue

Lecture Rooms, Registration and Come Together:  
EI 7 and EI 8, Vienna University of Technology, Neues EI, Gußhausstrasse 27-29,  
1040 Vienna

Overview: TU Vienna



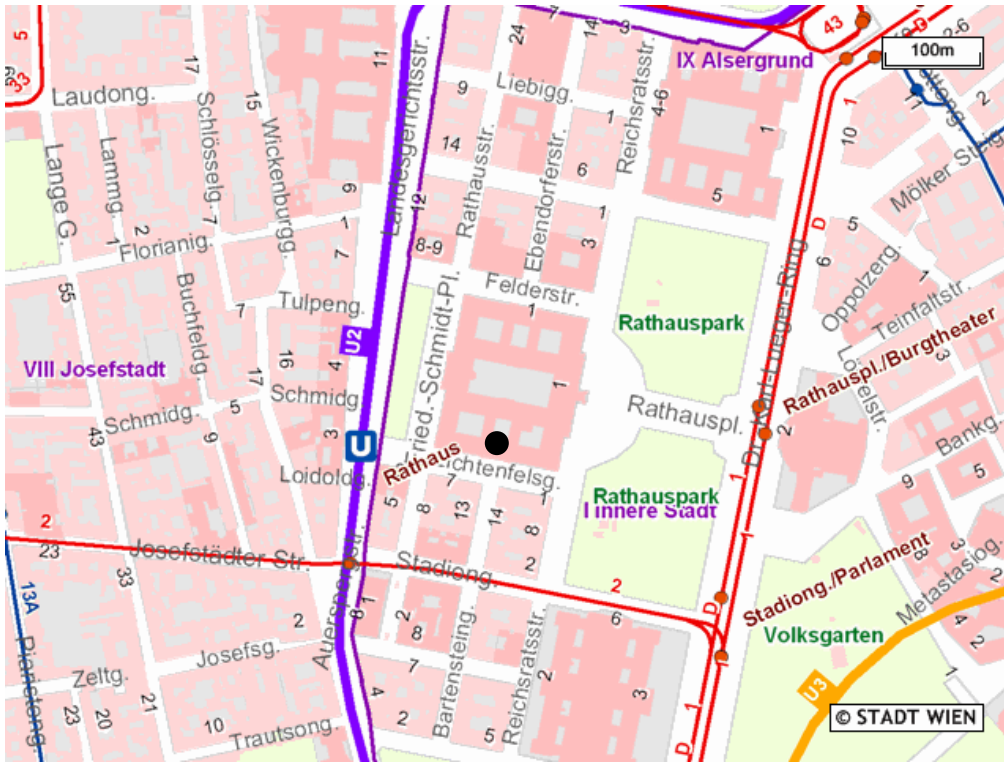
Ground Floor  
EI 7





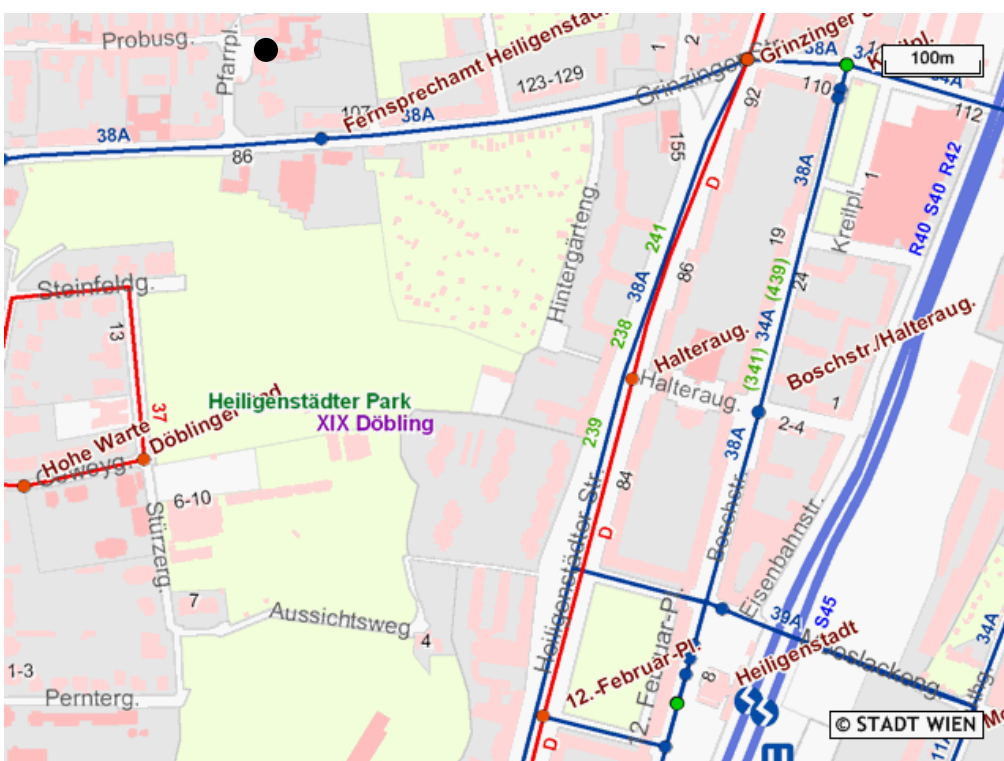
### Conference Dinner

Rathaus Wien  
Rathausplatz 1  
1010 Wien



### Heuriger Event

Mayer am Pfarrplatz  
Pfarrplatz 2  
1190 Wien



**A selection of restaurants close to the conference location:**

**Bakery**

Anker Brot, Favoritenstrasse 2, 1040 Vienna  
A traditional Austrian snack-bar

**Traditional Viennese restaurants**

Wiedner Bräu, Waaggasse 5, 1040 Vienna  
Provides traditional Viennese cooking

Wiener Wia-z-haus, Gusshausstrasse 24, 1040 Vienna  
Traditional Viennese cooking, experience true Austrian "Schanigarten" ambient

Arthur & Arthur, Gusshausstrasse 16, 1040 Vienna  
Provides traditional Viennese cooking

Gußhaus, Gusshausstrasse 23, 1040 Vienna  
Provides traditional Viennese cooking

Artner, Floragasse 6, 1040 Vienna  
Provides traditional Viennese cooking

**Asian cooking**

AQUA, Favoritenstrasse 4-6, 1040 Vienna  
Thai, Cantonese and Japanese Food

Asia Pavillion, Favoritenstrasse 1, 1040 Vienna  
A modern Asian restaurant providing numerous specialities

BOK, Favoritenstrasse 8, 1040 Vienna  
Sushi and Asian Vegetarian Food

Ostmeer, Argentinierstrasse 9, 1040 Vienna  
A traditional Chinese restaurant

**Italian cooking**

Monello, Apfelgasse 11, 1040 Vienna  
An Italian restaurant providing menus at lunch time



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