

Department of Informatics



The ShanghAl Lectures: Connecting Continents in Cyberspace

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Overview

Every fall term, the Artificial Intelligence Laboratory of the University of Zurich provides to its students an introductory lecture series on "Embodied Natural and Artificial Intelligence." Since 2009 these weekly lectures have been called *ShanghAI Lectures** and are held via videoconference, connecting over a dozen universities worldwide. The lectures are complemented by a community website and a novel three-dimensional collaborative virtual environment, where students meet as avatars (virtual embodied representations of themselves) to discuss and solve exercises together.

Community Website

Supporting the community of students and researchers by providing information and materials related to the lectures:

0 0	Discussion Session 1	
 + Shttp://shang	Jhailectures.org/lectures/231-discussion-session-1	Reader C Q
	HOME > LECTURES	

Open Wonderland

Originally an internal project at Sun Microsystems, the Open Wonderland framework is now becoming increasingly popular for creating three-dimensional collaborative virtual environments, especially in education.

Videoconference partners Chiba University (JP)

City University of New York (US) Ecole Polytechnique Fédérale de Lausanne (CH) ETH Zürich (CH)

Videoconference Lectures

Bringing together students, lecturers, and researchers from very diverse backgrounds and 16 countries every Thursday, 9:00 to 11:00 CET.



weekly participation of 12 to 15 sites
fully interactive, Q&A with lecturers

	ShanghAl Lectur	
	home lectures exercises community guest lectures r	research uniworld sponsors media
ShanghAl Lectures 2011 The ShanghAl Lectures will continue in Fall 2011. Please subscribe to the (low-volume) shanghai-update mailing list to keep being updated.	Discussion Session 1 will take place in UNIworld (http://wl2.ifi.uzh.ch:8080) on Thursday, 14 October, starting at 09:00 CET.* You can still send questions and other inputs for discussion to discussion@shanghailectures.org!	University of Zurich
List of teams and scores The almost final list of teams and points is available on the Exercises page. Please check carefully and let your teaching assistant and	In the next few days, all registered students who indicated that they would participate in the group exercises will be assigned to teams of 35 persons. One member per group will represent the whole group in the discussion sessions (you can decide among your team members who will be this representative; it doesn't have to be the same person all the time).	search
exercises @shanghailectures.org know in case of irregularities by 10 January. Important Information for Zurich students	Due to different semester dates at the various universities, this grouping of students could not be done in time for the first Discussion Session. Therefore, <i>anyone is welcome to login</i> . For the following Discussion Sessions, only the group representative should login.	Chiba University HITLab Australia Humboldt-Universität zu Berlin King Abdulaziz City for Science and Technology
Students of UZH and ETH please read this important information regarding the final exam in Zurich.	You can basically login from anywhere – computer room at your university, your home, an internet cate – as long as you have sufficient bandwidth and you have successfully worked through the Tutorial. Remember to mute your microphone/avatar when you are not talking in order to minimize audio issues. We recommend to use a headset for optimal audio quality.	 United Arab Emirates University Northwestern Polytechnical University Osaka University Peking University Shanchai Jiao Tono University
The Project Report of last year's ShanghAI Lectures is available as a PDF in two versions: Optimized for online viewing (ca. 5 MB) and	We will record the discussion session, so in case you don't (or don't want to) login, you can watch the video afterwards, similar to the lectures.	University of St. Gallen Technische Universität München Université des Sciences et de la Technologie Houari Bournediene University of Salford
optimized for printing (ca. 22 MB).	movements, lost connection we do our best to keep things up and running. Please bear with us.	University of Tasmania University of Zurich Karlsruhe Institute of Technology University Carlos III de Madrid
Overview (chrinese) or original project Technical Setup Video Gallery Video Gallery Artificial Intelligence Lab Project Report 2009	* We aim at a two-hour session, but the actual duration is determined by how many questions there are, and how well the technology works. Please login before 09:00 CET, so that we can start on time.	Hussian State University for the Humanit other partner sites 2010 Dalle Molle Institute for Artificial Intelligence Deta
Gaving presentations in Univorid User menu Your Profile Your Profile	We recorded the Discussion Session from the perspective of two avatars. If time allows, we will combine the two recordings into one, which might be more interesting to watch. For the moment, there is only one	Empa - Center for Synergetic Structures EUCogli Ferris State University Georgia Institute of Technology/Emory
Suomi an Aruce Sharphal Lectures Forum Lecture Slides User List FAQ	recording available in the following formats: • streaming Flash video • downloadable QuickTime video	University Goethe-Universität, Frankfurt am Main Indiana University, Bloomington Interdisciplinary Center Herzilya Konkuk University
Logout Glossary of Terms	iTunes Podcast The slides are available here (for registered users).	Libera Università di Lingue e Comunicazione Saint Paul College Tallinn University of Technology Universidade de Sao Paolo
Logout	Here are some screenshots from Discussion Session 1:	University at Buffato University Carlos III de Madrid University of California, Irvine University of Edinburgh University of Lugano University of Sudharn Denmark

- Joomla open-source CMS with extensions
 profile pages for students and lecturers
- \cdot lecture descriptions and recordings
- discussion forum for registered users
- \cdot exercises and related materials
- \cdot repository of guest lectures (50+ talks)





- \cdot written in Java, easy to extend and modify
- full control of all features and log data
- text chat, immersive audio, telephony
- \cdot X11 applications within the virtual world
- free, open-source framework available from
 http://openwonderland.org

Research

Large-scale international field study on crosscultural collaboration in virtual worlds.
421 students from 48 universities on six continents signed up on the website
282 participated in the research project

Methods: Online surveys, tracking, and visualization of avatar behavior in Open Wonderland

HITLab Australia (AU) Hosei University (JP) Humboldt-Universität zu Berlin (DE) Intel Corporation (US) Karlsruhe Institute of Technology (DE) King Abdul Aziz University (SA) maxon motor ag (CH) Nagoya University (JP) Northwestern Polytechnical University (CN) Osaka University (JP) Peking University (CN) Russian State University for the Humanities (RU) Shanghai Jiao Tong University (CN) Sung Kyun Kwan University (KR) Technische Universität München (DE) Tokyo University of Science (JP) United Arab Emirates University (AE) Université des Sciences et de la Technologie Houari Boumediene (DZ) University Carlos III de Madrid (ES) University of Electro-Communications (JP) University of Essex (UK) University of Salford (UK) University of St. Gallen (CH) University of Tasmania (AU) University of Vermont (US) University of Zurich (CH)

- · guest lectures by high-profile speakers
- · H.323 standard for audio/video
- · Adobe Connect for screensharing (slides)
- SWITCHcast for recordings
- infrastructure services provided by SWITCH, the Swiss Education and Research Network
 http://switch.ch

Sites that did not join the live classes due to their time zone followed by watching the recording and then participating in the exercises.



* the first lectures were held from Jiao Tong University in Shanghai



Collaborative Environment

The novel component in the ShanghAI Lectures project is a three-dimensional collaborative virtual environment, where the students log in as avatars to work together on exercises and to join discussions with lecturers and tutors.





Research agenda and report: http://shanghailectures.org/research

We are confident that this combination of videoconferencing, community website, and shared virtual environment sees its application also for other educational content in the years to come.

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Contact

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World map with sites participating in 2009 and 2010. Dark blue: Weekly videoconference. Blue: One-time guest lecture. Light blue: Participating in the exercises or research.



http://shanghailectures.org