



人
工
智能

上海
授课

The
ShanghaiAI
Lectures

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University of
Zurich^{UZH}



What are the ShanghAI Lectures?

Global lecture series via videoconference

The many high-profile
Lectures: Rolf Pfeifer plus guest speakers

Topic: Embodied Natural and Artificial Intelligence

Exercises: Teamwork with students from other sites

Two exciting and fun robot competitions



Fourth year of ShanghAI Lectures

2003–2004: The AI Lectures from Tokyo

2005: The AI Days

2009: The ShanghAI Lectures

The ShanghAI Lectures 2010

The ShanghAI Lectures 2011

The ShanghAI Lectures 2012



Participating sites 2009–2012





Participating sites 2009–2012





Participating sites 2009–2012





Participating sites 2009–2012

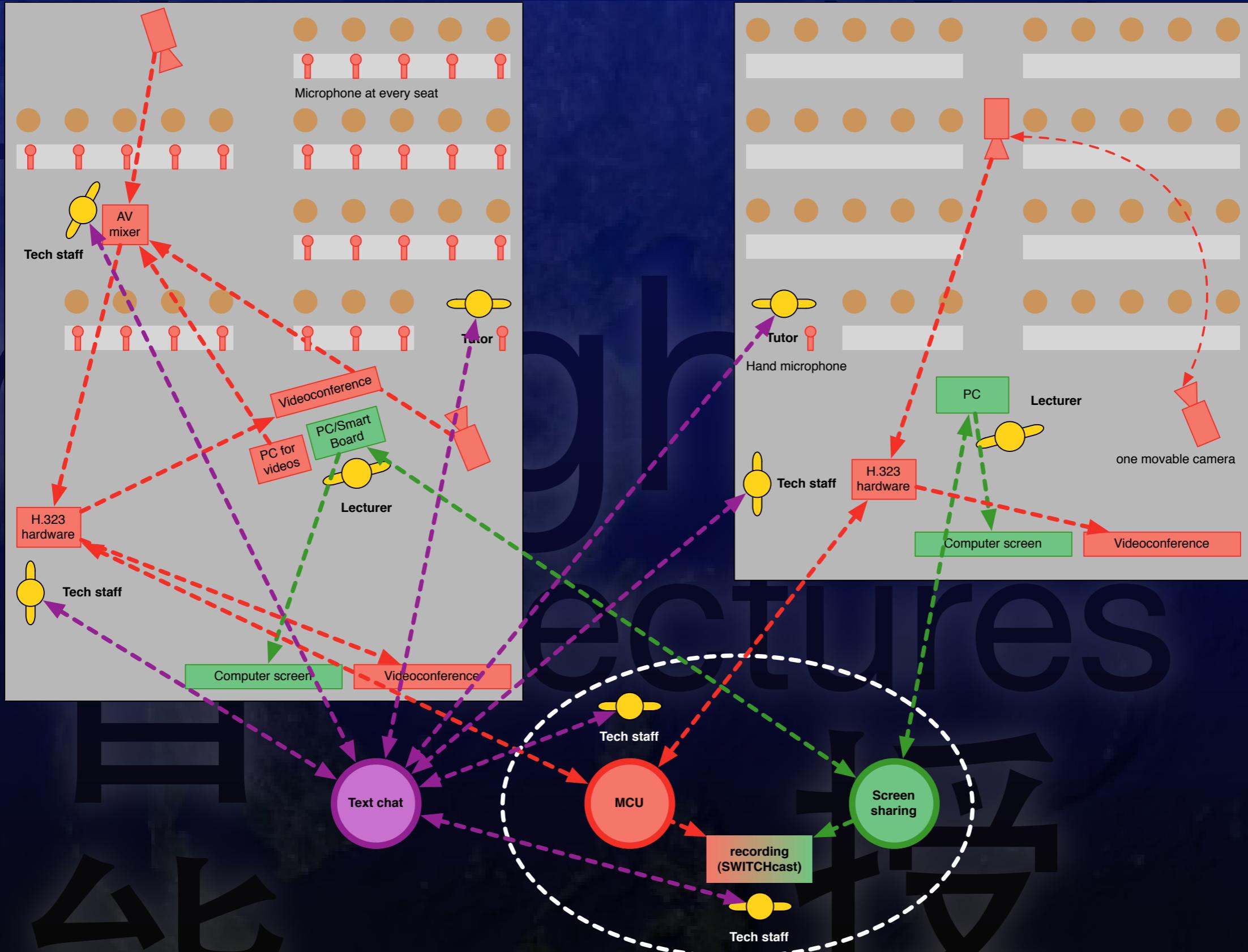




Participating sites 2009–2012



Technology (simplified)





The Lectures

First hour: **Introduction to AI** by Rolf Pfeifer

Second hour: **two guest lectures**

Prepare for guest talks

Read abstract and papers

Discussion with guest speakers

Website: shanghailectures.org



E-mail: Password: Create new account Request new password

News Community Lectures Research Sponsors



The first ShanghAI Lecture

Thierry Bochler, project manager of the ShanghAI Lectures in 2009, opens the very first lecture

News

Zurich students: New room number (again!)

Submitted by Nathan Lubman on Thu, 2012-09-20 15:34

To students who attend the ShanghAI Lectures in Zurich: Please note the change in room number. The lectures will take place in room EBN D.K.02 (in the BIB building, Brünigstrasse 14).

ShanghAI Lectures start on 27 September

Submitted by Nathan Lubman on Fri, 2012-09-14 14:28

The ShanghAI Lectures 2012 begin on Thursday 27 September, 07:00 UTC. We've got a great lineup of lecturers and are very much looking forward to exciting presentations and fun exercises with simulated and real robots! If you're a student and want to get credit points (according to your local rules), please

Goals of the ShanghAI Lectures

The ShanghAI Lectures project aims at:

- making education and knowledge on cutting-edge scientific topics accessible to everyone
- exploring novel methods of knowledge transfer
- building a sustainable community of students and researchers in the area of Embodied Intelligence
- overcoming the complexity of a multi-cultural and interdisciplinary learning context
- bringing global teaching to a new level

These lectures about Natural and Artificial Intelligence are held via videoconference at the University of Zurich in Switzerland, the University of Salford/MediaCityUK in the United Kingdom, Shanghai Jiao Tong University in China, and about 12 other universities around the globe. Students from the participating universities work together on the exercises, using a powerful robotics simulator software.

Follow @shanghailecture

Partner Sites 2012

- University of Zurich, Switzerland
- ETH Zurich, Switzerland
- Shanghai Jiao Tong University, China
- Russian State University for the Humanities, Moscow,



Website: shanghailectures.org

Register as a student
(select whether you participate
in the exercises*)

Discuss AI topics in
“Interest Groups”

Send messages

Solve and submit
exercises in teams

Goals of the ShanghAI Lectures

The ShanghAI Lectures project aims at

- making education and knowledge on cutting-edge subjects accessible online
- exploring novel methods of knowledge transfer
- building a sustainable community of students and researchers in the area of Embodied Intelligence
- overcoming the complexity of a multi-cultural and interdisciplinary learning context
- bringing global teaching to a new level

Share interesting
links (Youtube etc.)

* if you have already registered, but want/need to do
the exercises, send e-mail to info@shanghailectures.org

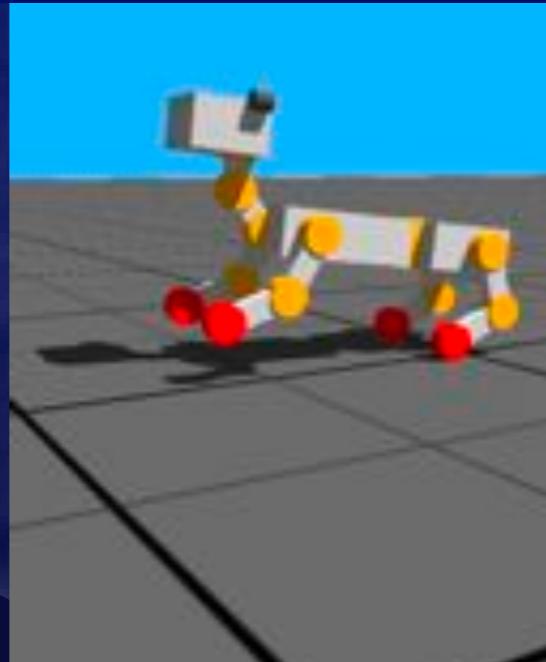
Partner Sites 2012

- Shanghai Jiao Tong University, China
- Russian State University for the Humanities, Moscow,

Exercises

Partly theory,
partly practical
(simulation)

Solve together
with your **group**



Submit online,
get points

rate your team
members

About 10 days
per exercise



Managing exercises online

The screenshot shows a study group interface with the following sections:

- Group Members:** A list of users with their names, timestamps, and profile icons. One message includes a small sun icon.
- Study Group:** A content editor for the group, showing fields for "Content", "Text format (Filtered HTML)", and "Attachments". Buttons for "Publish" and "Add another item" are present.
- Study Group Board:** A discussion board with a post from "validus iaceo" asking for feedback on their exercise solution.
- Voting:** A section with buttons for "Go to Voting" and "Leave group".
- Assignment Submission:** A button labeled "Create a new submission".
- Assignment Points:** A message stating "You have no points for exercises currently."

see who's in your group

comment on the exercise

make friends

send private messages

vote for your group peers

submit (check deadline!)

see your point score



Webots for ShangAI students

Thanks to Cyberbotics Ltd.



your licence will be extended until the
end of the ShangAI Lectures 2012

free licence during the
ShangAI Lectures 2012

get trial licence at
<http://cyberbotics.com>
(use same e-mail address as
for ShangAI website!) check out the
user guide
first Webots exercise
on 11 October

Robot competitions

NAO



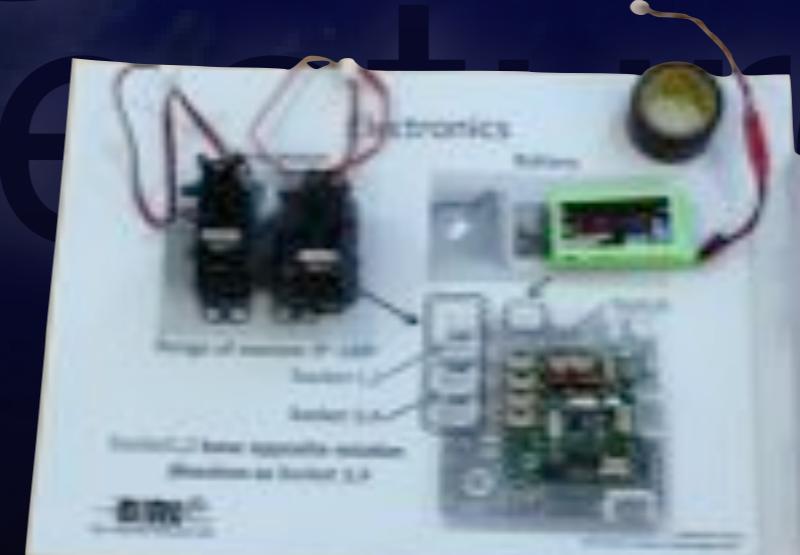
Humanoid robot by Aldebaran Robotics

Tobias Klauser

EmbedIT

Soft-Bodied Creature Locomotion Competition

Dorit Assaf





Robot competitions

end of October NAO

Humanoid robot by Aldebaran Robotics

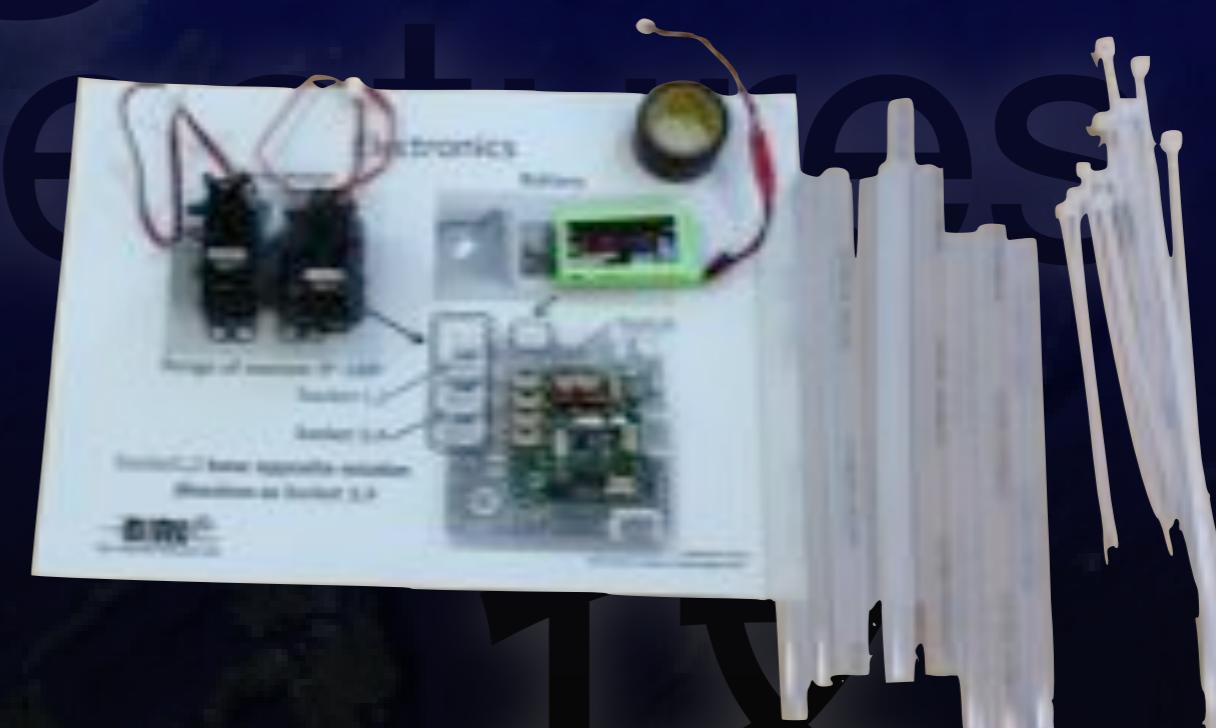
Tobias Klauser

EmbedIT

Soft-Bodied Creature Locomotion Competition

Dorit Assaf

early November





Collaboration and Sponsoring

CYBERBOTICS
professional mobile robot simulation

Webots licences for all students

LANDESVERWALTUNG
FÜRSTENTUM LIECHTENSTEIN

Initial funding

openwonderland

collabcom
The Collaboration & Communication Company

Sun
microsystems

Kitely
Beta

HENN ARCHITEKTEN

Infrastructure and counseling

SWITCH
Serving Swiss Universities

Infrastructure and initial funding

envolve
Community Chat

maxon motor
driven by precision

Competition (2009)

ALDEBARAN
Robotics

NAO competition

seeed studio
Open Hardware Facilitator

EmbedIT competition

SAINT PAUL COLLEGE
A Community & Technical College

ETH
Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich



Team 2012 — Thank you very much!

Abdelkader Guessoum · Abderrahmane Amrouche · Alexander Shtyhov · Alvaro Castro González · Andréa Mestre · Andrew Spilling · Archie Malvar · Avinash Ranganath · Beat Rageth · Bobbie Ryu · Bruno Bieri · Daniel Gundry · Declan Dowdall · Dorit Assaf · Dulcidio Coelho · Dustin Lee · Eduardo Silles · Evan Smith · Fabio Bonsignorio · Ferry Bachmann · Francisco Cruz Argudo · Guido Schillaci · Hao Zhang · He Yuan · Hesheng Wang · Ilan Tochner · Ilhem Boussaid · James Riggall · James Tamplin · Jose David Gomez · József Balogh · Ken Masuya · Koh Hosoda · Latifa Mahdaoui · Marc Sulser · Marcus Scheunemann · Maresa Bonalumi · Markus Bürer · Markus Lehmann · Martin Fodstad Stoelen · Miguel Angel Salichs · Mohamed Boudour · Muhammad Ilyas · Nikolaos Mavridis · Paola Wieting · Renate Zirkelbach · Riccardo Gosteli · Rolf Pfeifer · Saliha Kerireme · Samia Nefti-Meziani · Sebastian Schulz · Shen Tan · Sonia Mata Ortega · Stefan Ulbrich · Sukhan Lee · Tamar Tolcachier · Tamás Haidegger · Tamim Asfour · Tatyana Volkova · Thomas Tschümperlin · Tobias Klauser · Valeria Chernikova · Vera Zabotkina · Verena Hafner · Warren Sheaffer · Weidong Chen · Wenlong Liao · Wenwei Yu · Wenxi Zhang · Xiaoxiang Yu · York Wüst · Zaia Alimazighi · Zhao Qian · Ziwei Li

AND MANY MORE...