WP6-7
Dissemination, Management and Year 3 Planning

Angelo Cangelosi, Elena Dell’Aquila & ITALK team

italkproject.org
Overview

1. WP6 Dissemination
   - Training & Summer School
   - Conference/Workshop organisation
   - Publications
   - Invited/Dissemination talks
   - Media, general public, industry

2. WP7 Management
   - Management Committees
   - Consortium and inter-partners meetings
   - Cooperation with other EU projects
   - Timeplan and deliverables

3. Year 3 Planning overview
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WP6 – T6.2 Summer School

• VVV-ITALK Summer School
  – ITALK joined forces with IIT’s post-robotcub VVV team to build on the success, reputation and resources from previous iCub summer school
  – Provide students with target experiments on action/language learning (integrating scenarios from Roadmap)
  – staff/students from ITALK will also participate

http://eris.liralab.it/summerschool/
Welcome to VVV 2010, the iCub Summer School!

Happy July!
We look forward to seeing you at the school. See travel tips.

Application period and registration closed.
Thanks to all the applicants!

The iCub Summer School, “Veni Vidi Vici,” serves to consolidate and disseminate skills in software engineering for humanoid robots. This year it will be held in Sestri Levante, Italy, July 19-28, 2010.

- **Registration**: accepted students should register on or before June 30th.
- **The school wiki**: all the fun stuff will happen here.
- **Call for Participation**: now closed, our thanks to all who responded.
- **Venue information**
- **Last year’s school**: VVV ’09 (school wiki, participants)
- VVV ’08 (school wiki, participants)
- VVV ’07 (school wiki, participants)
- VVV ’06 (school wiki, participants)

http://eris.liralab.it/summerschool/
WP6 – T6.3
Workshops Organisation

• Humanoids 2009 Symposia
  – Joint organisation with CHRIS project
  – Workshop on Social Learning in Interactive Scenarios
  – Workshop on Developmental psychology contribution to human robot cooperation

• Other workshops
  – iCub & Friends Workshop, IROS-2010, Taiwan, Oct 2010
  – Workshop on Spoken Dialogue and Human-Robot Interaction at IEEE RoMan 2009, Japan, Sept 2009
WP6 – T6.3
Conference Organisation

• Y4 conference deliverable
  – Co-organisation and co-sponsorship of the first IEEE ICDL-EPIROB-2011 Joint Conferences on Development and Learning and Epigenetic Robotics Frankfurt, 7-10 September 2011

  – General Chair (A. Cangelosi) – with Jochen Triesch
  – Programme Chair (K. Rohlfing)
  – Publication Chair (F. Nori)

  – ITALK workshop to maximise project dissemination
  – ITALK ISAB speakers
**WP6 – T6.3 Dissemination**

- Talks and Posters (1)
  - IET Humanoid Robotics Symposium London, 8 March 2010
  - CogSys 2010 - 4th International Conference on Cognitive Systems, Zurich, 29 January 2010 (A. Cangelosi, invited speaker)
  - Workshop on Grounding, POETICON project, Athens, 5 December 2009 (A. Cangelosi, G. Metta, invited speakers)
  - Annual Meeting of the Brazilian Cognitive Society, Campinas Brazil, 2-4 September 2009 (A. Cangelosi, keynote speaker)
  - IROS 2009 Workshop on Autonomous Mental Development for Intelligent Robots & Systems, St Louis, 11 October 2009 (G. Metta)
  - 2009 VC Research and Enterprise Conference, Plymouth
  - Workshop on Comparative Cognition in Robots and Animals, University of Leon, Spain, 28th May 2009 (J. Saunders, speaker)
WP6 – T6.3 Dissemination

• Talks and Posters (2)
  – Workshop on Incremental Processing, Bielefeld University, Germany, 8th June 2009 (Y. Sato)
  – Construction Grammar: New Perspectives and Approaches, Kiel, February 2010 (Fischer, Zeschel, speaker)
  – AfliCo 3, International Conference of the French Cognitive Linguistics Association (Zeschel)
  – Nordwestdeutsches Linguistisches Kolloquium 2009 (Zeschel)
WP6 – T6.3 Publications

• Publications update
  – Journals: IEEE TAMD (3), Neural Networks, IEEE TEC, Journal of Pragmatics...

<table>
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<tr>
<th>Publication Type</th>
<th>Year 2 *</th>
<th>Year 1</th>
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<tr>
<td>journal articles</td>
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<td>papers in proceedings</td>
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<td>submitted manuscripts</td>
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(*) Only includes publications accepted before March 2010

• Special issue organisation
  – “Action and language integration”, Frontiers in Neurorobotics (Cangelosi guest editor)
  – “Grounding Language in Action”, IEEE TAMD (Rohlfing & Tani guest editors) July 30 deadline!
**WP6 – T6.5 Media & Public**

- Nature article on the iCub
  - News feature
  - 27 August 2009
- Quotations from Sandini, Metta, Nolfi, Cangelosi
WP6 – T6.5 Media & Public

iCub and the VIPs
WP6 – T6.5 Media & Public

- Robot Name Competition
  - Plymouth iCub
  - Invited year-5 students in Plymouth (10-year old)
  - Name: “TITCH”
  - Award ceremony on 27 November 2009
  - Whole class meeting the robot on 12 July 2010
WP6 – T6.5 Schools, Industry & Professional Bodies

• Talks to Schools and Professional Bodies
  – IET London, iCub workshop, London 8 March 2010
  – IET Institute of Engineering and Technology Lecture, UK Southwest Branch, 18 October 2009 (A. Cangelosi)
  – Hawkchurch Primary School, Axminster UK, 10 February 2010
  – Workshop on Robot Teaching for Children and Adults, Manchester Science Festival 2009, Manchester Museum of Science and Industry, 27th October 2009 (J. Saunders)
  – Science Oxford: Robotics Vision, Live and Late (F. Foester)
  – TAROS 2010: ITALK sponsoring of industrial speaker and industry showcase
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3. Year 3 Planning overview
WP7 Management

• Committees
  – Scientific and Management Committee
  – Knowledge Management Committee

• Consortium meetings in year 2
  – M3: Review Meeting, Dusseldorf, 1-2 July 2009
  – M4: Consortium Meeting, Anacapri, 3-4 Nov 2009
  – ... focussed inter-partners meetings
**WP7 Management**

- **Focussed inter-partner meetings**
  - March 2009: Koay (UH) Massera and Ferrauto (CNR) at IIT for iCub training
  - March 2009: visit of Davide Dellepiane and Marco Maggiali (IIT) to BIEL to help setting up iCub
  - 8th June 2009, Bielefeld University, Workshop on Incremental Processing with J. Saunders (UH)
  - 24-26 June 2009: Vadim Tikhanoff visits Bielefeld to integrate the iCub software with acoustic packaging module
  - 4-5 August 2009: Francesco Nori and Davide Delle Piane visit Stefano Nolfi (CNR) for support and training on the iCub.
  - 23 November 2009: visit of UH team (Joe Saunders, Yo Sato. Frank Foerster) to Plymouth for planning and integration on WP3 and WP4
  - October 2009: Cangelosi (PLYM) and Metta and Tikhanoff (IIT) meet at St Louis (IROS Conference workshop) to work on joint publication.
  - November/December 2009: visit of Massera (CNR) to Plymouth for research on iCub reaching simulations
  - 4 December 2009: project progress meeting with Cangelosi (PLYM), Fischer (USD), Metta (IIT), Wrede (BIEL) Joe Saunders (UH), Frank Broz (UH), during Humanoids-09 workshops
  - 4 January 2010: visit of Angelo Cangelosi to CNR Rome to meet with Stefano Nolfi and Tomassino Ferrauto on WP1 and WP2 planning
<table>
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<tr>
<th>Del. no.</th>
<th>Deliverable name</th>
<th>WP no.</th>
<th>Lead participant</th>
<th>Dissemination level</th>
<th>Due delivery date from Annex I</th>
<th>Delivered Yes/No</th>
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<td>D1.1</td>
<td>Testing of extended iCub platform and simulation software for action and language learning experiments</td>
<td>WP1</td>
<td>IIT</td>
<td>D, R</td>
<td>PU 12</td>
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<td>D2.1</td>
<td>Report on robotic experiments on object manipulation skills and their internal categorical structure and organisation</td>
<td>WP2</td>
<td>CNR</td>
<td>R</td>
<td>PU 24</td>
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<td>March 2010</td>
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<td>D3.1</td>
<td>Report on human-robot experiments on deixis, gesture and reference in communication tasks</td>
<td>WP3</td>
<td>UH</td>
<td>R</td>
<td>PU 24</td>
<td>Yes</td>
<td>March 2010</td>
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<td>D4.1</td>
<td>Report on the emergence of symbolic systems for object and action naming and acoustic packaging experiments for word learning</td>
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<td>D5.1</td>
<td>A Road Map paper for the development of new theoretical concepts and methods for the study and design of linguistic communication and action language integration in robots – UPDATED Year 2</td>
<td>WP5</td>
<td>PLYM</td>
<td>R</td>
<td>PU 12 / 24</td>
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<td>D6.1</td>
<td>Web repository of open-source development environment for iCub platform and simulation software</td>
<td>WP6</td>
<td>PLYM</td>
<td>O</td>
<td>PU ongoing</td>
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<td>On <a href="http://www.italkproject.org">www.italkproject.org</a></td>
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<td>D6.3</td>
<td>Peer-review scientific publications in international journals and conferences</td>
<td>WP6</td>
<td>PLYM</td>
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<td>PU ongoing</td>
<td>Yes</td>
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<td>On <a href="http://www.italkproject.org">www.italkproject.org</a></td>
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<td>D6.4</td>
<td>Evidence of media/press presentation of the work and of robotic demonstrations at conferences/meetings</td>
<td>WP6</td>
<td>PLYM</td>
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<td>PU ongoing</td>
<td>Yes</td>
<td>ongoing</td>
<td>On <a href="http://www.italkproject.org">www.italkproject.org</a></td>
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Cooperation with other EU projects

- **ROSSI**
  - Joint work with PLYM and CNR

- **RobotCub**
  - Participate to final workshop/review

- **CHRIS**
  - Two joint workshops at Humanoids 09 Paris

- **RobotDoC ITN**
  - Our students at March 2010 training event

- **POETICON, ALEAR**
  - Participation to POETICON workshops and ALEAR summer school

- **ALIZ-e**
  - Non-verbal HRI knowledge (Robin Read)
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3. Year 3 Planning overview
New Y3 review meeting format?

• Aim
  – To go in depth in some work/model
  – To allow junior staff/students to present

1) Start: Intro to whole project
2) WP short talk + posters and videos
   • 20 minutes per WP intro talk
   • 40 minutes per WP posters, demos, movies
3) iCub Demo
4) End: WP6-7 and plans for next year
New Y3 review meeting format?

**Day 1**

- **8:45-9:40** Private meeting, PO and reviewers
- **9:40** Opening words (JH)
- **9:45-10:30** Overview of year 2 progress (Angelo)

  - **10:30-11:00 coffee break**

- **11:00-11:20** WP1 short overview presentation (Francesco)
- **11:20-11:40** WP2 short overview presentation (Stefano)

- **11:40-13:00** Posters and videos for WP1-2

  - **13:00-14:00 lunch**

- **14:00-14:20** WP3 short overview presentation (Joe)
- **14:20-14:40** WP4 short overview presentation (Britta)
- **14:40-15:00** WP4 short overview presentation (Angelo)

- **15:00-17:00** Posters and videos for WP3-4-5

  - **15:00-17:00 coffee break during posters/demo**

- **17:00-18:00** iCub demos

**Day 2**

- **9:15-10:00** WP6 & 7 presentation and planning for year 3 (Angelo)
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Progress in action learning (WP1)

- Simulation-to-Robot for action/language development experiments (IIT, PLYM)
- Hierarchical learning of actions (PLYM, IIT, SDU, BIEL, CNR)
- Multiple skills integration (IIT, CNR)
- Model of Ashby’s cybernetic theory for object manipulation (PLYM)
Progress in concept learning (WP2)

- Embodied, active categorical perception (CNR)
- Category biases in developmental experiment modelling (PLYM)
- Social learning in category acquisition (BIEL, CNR)
Progress in social learning (WP3)

- Empirical analysis of HRI and CDS data (BIEL, USD)
- Experiments on socially acquired linguistic knowledge (UH, BIEL)
- Experiments on negation (UH)
- Tutoring behaviour on hand motion and gaze (BIEL)
Progress in *language learning* (WP4)

- Generalisation for emergence of symbolic systems (RIKEN, PLYM, CNR)
- Further analyses on Acoustic Packaging and synchrony (BIEL)
- Experiments from single word to compositional languages (PLYM, USD)
- Babbling to word form detection (UH)
- Grammar induction (two-word stage) and construction grounding (UH, USD)
Integration and Cognitive Bootstrap (WP5-all)

- ...following the RoadMap
- Neuroscience of mirror neuron system in gaze behaviour in humans and HRI (IIT)
- Language as a cognitive tool (CNR)

- Integrating scenario planning
Example of Integration

- Experiments on embodiment bases of words and compositional semantics (inter-WP)
  - T3.1 Constructivist grammar classifications (USD)
  - T4.1 Generalisation for symbols (RIKEN)
  - T5.2 Language as cognitive tool (CNR)
  - T4.3 Embodiment of action words (PLYM)
  - (and T1.4, T2.1, T2.2)

Y3 integrating scenario on the learning of grounded grammar and lexicon
Y3 procedures for integration

- Summer school exercises (July 2010)
- Two working groups
  - Compositionality scenario (IIT, CNR, PLYM, RIKEN, USD)
  - HRI tutoring (BIEL, UH, USD, IIT)
- Definition of plan/specs (Sept 2010)
- Integration meetings (2010-11)
  - Residence workshops
  - Software integration via repository
ITALK Year 2

Thanks