RESEARCH CONFERENCES

ESF-JSPS Frontier Science Conference Series for Young Researchers

Robotics: Experimental Cognitive Robotics

Shonan Village Center, Kanagawa • Japan
9-15 March 2008

Chairs:
Yoshihiko Nakamura, University of Tokyo, JP -
Carme Torras, Institut de Robotica i Informatica Industrial, ES -
Juan Andrade Cetto, Institut de Robotica i Informatica Industrial, ES

www.esf.org/conferences/08231

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## Final Programme

### Sunday, 9 March

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>Late afternoon / early evening</td>
<td>Registration at the ESF-JSPS desk</td>
</tr>
<tr>
<td>18.00</td>
<td>Welcome Reception</td>
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<tr>
<td>19.00</td>
<td>Dinner</td>
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### Monday, 10 March

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08.00-08.30</td>
<td>Conference Opening</td>
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### Session 1: Communication

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Affiliation</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>08.30-09.30</td>
<td>Yoshihiko Nakamura</td>
<td>University of Tokyo, JP</td>
<td>Semiotics of Behaviors and Robot Intelligence</td>
</tr>
<tr>
<td>09.30-09.40</td>
<td>Aude Billard</td>
<td>Ecole Polytechnique Fédérale de Lausanne, CH</td>
<td>Transmitting Human Skills and Knowledge to Robots</td>
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<tr>
<td>10.40-11.10</td>
<td>Nobuaki Minematsu</td>
<td>University of Tokyo, JP</td>
<td>Speech as Music: Yet Another Framework for Speech Recognition</td>
</tr>
</tbody>
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### Session 2: Embodiment

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Affiliation</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.30-14.30</td>
<td>Juan Andrade Cetto</td>
<td>Institut de Robotica i Informatica Industrial, ES</td>
<td>Perception and Action under Uncertainty</td>
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<tr>
<td>14.30-14.40</td>
<td></td>
<td></td>
<td>Break</td>
</tr>
<tr>
<td>14.40-15.40</td>
<td>Yasuo Kuniyoshi</td>
<td>University of Tokyo, JP</td>
<td>Emergence and Development of Embodied Behavior and Cognition</td>
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<tr>
<td>15.40-16.00</td>
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<td>Coffee break</td>
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<tr>
<td>16.00-18.00</td>
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<td></td>
<td>Oral Presentations by Young Researchers</td>
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<tr>
<td>18.00-20.00</td>
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<td>Dinner</td>
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<tr>
<td>20.00-22.00</td>
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<td>Poster Session</td>
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### Tuesday, 11 March

### Session 3: Interaction

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>08.30-9.30</td>
<td>Gordon Cheng</td>
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</tbody>
</table>
Session 4: Walking
09.30-09.40 Break
09.40-10.40 Helge Ritter
University of Bielefeld, DE
Cognitive Interaction Technology: from Elements to Synthesis
10.40-11.10 Coffee break
11.10-12.10 Shigeki Sugano
Waseda University, JP
Embodiment of Robot Intelligence and Emotion
12.10-13.30 Lunch

Tuesday, 12 March

8:00 Transport to University of Tokyo

Session 5: Development
10.30-11.30 Rüdiger Dillman
University of Karlsruhe, DE
Towards Emerging Cognitive Capabilities of Humanoid Robots
11.30-11.40 Break
11.40-12.40 Giulio Sandini
Italian Institute of Technology, IT
Humanoids, Brain and Cognitive Sciences
12.40-14.00 Lunch
14.00-18.00 Laboratory Tour
18.00-20.00 Get-together and Dinner
20.00 Transport to Shonan Village Center

Thursday, 13 March

Session 6: Learning
08.30-09.30 Aleš Ude
Jožef Stefan Institute, SI
Integrating Perception, Action, and Humanoid Robot Learning
09.30-09.40 Break
09.40-10.40 Stefan Wermter
University of Sunderland, UK
*Hybrid Intelligent Systems for Cognitive Robotics*

10.40-11.10 Coffee break

11.10-12.10 Minoru Asada
Osaka University, JP
*Cognitive Developmental Robotics towards Humanoid Science*

12.10-13.00 Lunch

13.00-19.00 Excursion

19.00-22.00 Conference Dinner

**Friday, 14 March**

**Session 7: Mobility**

08.30-09.30 Atsuo Takanishi
Waseda University, JP
*Humanoid Robotics and its Applications*

09.30-09.40 Break

09.40-10.40 Florentin Wörgötter
Georg-August-Universität Göttingen, DE
*Robots under Adaptive Neural Control*

10.40-11.10 Coffee break

11.10-12.10 Hirohisa Hirukawa
AIST, JP
*Open Robotics Software Platform*

12.10-12.30 Closing Session

12.30-14.00 Farewell Lunch

**Saturday, 15 March**

Breakfast & Departure

**Abstracts, Posters & Short Oral Presentations**

Participants whose abstracts have been accepted as short talks have been informed. All other abstracts are accepted as posters.