



aaai-11 – san francisco

august 7–11 – www.aaai.org / aaai11

The Twenty-Fifth AAAI Conference on Artificial Intelligence Special Track on Physically Grounded Artificial Intelligence

Sponsored by the Association for the Advancement of Artificial Intelligence

Robotics, computer vision, human behavior modeling, social network analysis, and similar disciplines where computers interface to physical environments have proven to be a major source of inspiration and crucial new insights into artificial intelligence. Physical grounding provides ready access to challenging, real problems of perception and action with a rich source of data and the related stochastic effects. Further, applications of physically grounded AI have enormous potential to improve research, learning, entertainment, commerce, and society as a whole.

The special track invites research papers on AI techniques, systems and concepts applied to physically grounded systems including activity recognition, robotics, and machine perception.

Papers should either describe related research or clearly explain how the work addresses problems in physically embodied agents, opportunities or issues underlying such systems.

Topics

Relevant topics include the following:

- ⇒ AI for robotics
- ⇒ AI applied to health, development, and sustainability problems
- ⇒ Activity and context recognition
- ⇒ Computer vision and 3D perception
- ⇒ Educational robotics
- ⇒ Intelligence and perception for human-robot interaction
- ⇒ Machine learning applied to robotics and perception
- ⇒ Machine learning applied to speech and conversation modeling
- ⇒ Machine learning for control and decision making
- ⇒ Manipulation and navigation planning
- ⇒ Prediction and planning for transportation
- ⇒ Mobile sensing and sensor networks
- ⇒ Situated language for robotics
- ⇒ Social network modeling

Papers will be reviewed by qualified reviewers drawn from a special track committee, with specific expertise in the above areas, as well as the general AAAI program committee. Submissions to this special track deemed not to be relevant may be considered for review for the general technical papers track at the discretion of the track and conference cochairs.

Author Registration

Authors must register at the AAAI-11 Physical-

Timetable for Authors

- ⇒ February 3, 2011: Electronic abstracts due
- ⇒ February 8, 2011: Electronic papers due
- ⇒ April 15, 2011: Notification of acceptance or rejection
- ⇒ May 3, 2011: Camera-ready copy due at AAAI office

ly Grounded Artificial Intelligence Special Track web-based technical paper submission site, which will be accessible from the AAAI-11 website after December 1, 2010. The software will assign a password, which will enable the author to log on to submit an abstract and paper. In order to avoid a rush at the last minute, authors are encouraged to register as soon as possible after December 1, and well in advance of the February 3 abstract deadline.

- ⇒ Registration will close at 11:00 PM PST on February 3, 2011.
- ⇒ Abstract submission will close at 11:59 PM PST on February 3, 2011.
- ⇒ Final paper submission will close at 11:59 PM PST on February 8, 2011.

Abstract and Paper Submission

Electronic abstract and paper submission through the AAAI-11 special track paper submission site is required on or (preferably) before the deadline dates listed above. We cannot accept submissions by e-mail or fax.

Papers must be in trouble-free, high resolution PDF format, formatted for US letter (8.5" x 11") paper, using type 1 or TrueType fonts. Papers may be no longer than 6 pages including references, and formatted in AAAI two-column, camera-ready style (see the author instructions page at www.aaai.org/Publications/Author). Please note that these formatting instructions are for final, accepted papers; no additional pages can be purchased at the review stage. In addition, the copyright slug may be omitted in the initial submission phase. Please also refer to the blind-review webpage for instructions on how to prepare your paper for blind review.

Authors will receive confirmation of receipt of their abstracts or papers, including an ID number, shortly after submission. AAAI will contact authors again only if problems are encountered with papers. Inquiries regarding lost papers must be made no later than February 15, 2011.

Submissions to Other Conferences or Journals:

Papers submitted to this conference must not have been accepted for publication elsewhere or be under review for another AI conference. The guidelines of the AAAI policy on multiple submissions are fully detailed on the AAAI-11 website and must be carefully followed.

Review Process: Program committee members will identify papers they are qualified to review based on the information submitted electronically (the paper's title, keywords, and abstract). Their reviewing will be done blind to the identities of the authors and their institutions.

Authors will have a limited opportunity to respond to initial reviews. This author's feedback may then be taken into account in the final reviews and recommendations. The program committee's reviews will make recommendations to the senior program committee, which in turn will make recommendations to the track cochairs. Although the track cochairs will formally make all final decisions, in practice almost all will be made earlier in the process.

Publication: Accepted papers will be allocated six (6) pages in the conference proceedings. Up to two (2) additional pages may be used at a cost to the authors of US\$ 275 per page. Final papers exceeding eight (8) pages and those violating the instructions to authors will not be included in the proceedings. Authors will be required to transfer copyright of their paper to AAAI.

Questions and Suggestions

Concerning author instructions and conference registration, write to aaai11@aaai.org. Concerning suggestions for the program and other inquiries, write to the special track cochairs.

Special Track Cochairs

Kurt Konolige (Willow Garage)
Tanzeem Choudhury (Dartmouth College)