

IEEE ICRA 2013

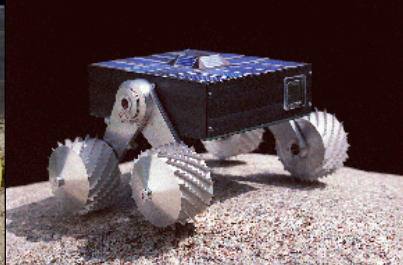
Planetary Rovers Workshop

Organized by
Richard Volpe
Jet Propulsion Laboratory, California Institute of Technology

Hosted by
Kazuya Yoshida
Tohoku University

May 2013

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Government sponsorship acknowledged.*

Today's Agenda

#	start	end	dur	name	Org	Country	topic
1	8:30	8:45	0:15	Kazuya Yoshida	Tohoku Univ	Japan	Introduction
2	8:45	9:20	0:35	Kazuya Yoshida	Tohoku Univ	Japan	Moonraker Rover
3	9:20	9:55	0:35	Michael Furlong	CMU	USA	Robotic Science Autonomy
	9:55	10:15	0:20				COFFEE BREAK
4	10:15	10:50	0:35	Luc Joudrier	ESA	Europe	ExoMars
5	10:50	11:25	0:35	Joel Burdick	Caltech	USA	Axel Rover
6	11:25	12:00	0:35	Tim Barfoot	U Toronto	Canada	Place Revisiting
7	12:00	12:35	0:35	Ryan McCoubrey	MDA	Canada	Canadian Rover Prototypes
	12:35	14:05	1:30				LUNCH BREAK
8	14:05	14:40	0:35	Thomas Röhr	DFKI	Germany	RIMRES
9	14:40	15:15	0:35	Takashi Kubota	ISAS	Japan	Intelligent Exploration
10	15:15	15:50	0:35	Thierry Peynot	ACFR	Australia	Learning Traversability and Planning
	15:50	16:10	0:20				COFFEE BREAK
11	16:10	16:45	0:35	Yashodhan Nevatia	SAS	Belgium	Terrain Trafficability
12	16:45	17:20	0:35	Mark McClelland	Cornell	USA	Relational Mapping for Operations
13	17:20	17:55	0:35	Velin Dimitrov	Worcester Poly	USA	Autonomous Exploration
14	17:55	18:30	0:35	Kazuya Yoshida	Tohoku Univ	Japan	group discussion
	18:30	20:30	2:00				DINNER

Outline:

- 1. Intro to Workshop***
- 2. Workshop Logistics***
- 3. Space Robotics Technical Committee***

Related Past Workshops

- [Space Robotics Workshop](#), IEEE International Conference on Robotics and Automation (ICRA), Shanghai, China, 13 May 2011
- [Planetary Rovers Workshop](#), IEEE International Conference on Robotics and Automation (ICRA), Anchorage AK USA, 3 May 2010
- [Planetary Rovers Workshop](#), IEEE International Conference on Robotics and Automation (ICRA), Pasadena CA USA, 19 May 2008
- [Space Robotics Workshop](#), IEEE International Conference on Robotics and Automation (ICRA), Rome Italy, 14 April 2007.
- [Planetary Rovers Workshop](#), IEEE International Conference on Robotics and Automation (ICRA), Barcelona Spain, 22 April 2005.
- [Mars Rover Technology Workshop](#), IEEE Aerospace Conference, Big Sky Montana, March 7-15 2004.
- [Planetary Rovers Workshop](#), IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Grenoble France, 7 September 1997.

Archiving Presentation Material

- As in previous years, all presentations and supporting material will be posted on the website for future reference. Please see

<http://ewh.ieee.org/conf/icra/2013/workshops/PlanetaryRovers/>

- *Or follow the link from the ICRA 2013 workshops webpage.*
- Please put your presentation and supporting material (e.g. movies) on the memory stick after each talk.

Making the day go smoothly...

- Speakers are requested to finish within allocated time, and allow for a few questions.
- Audience is requested to return from breaks promptly, to allow the schedule to proceed without delay or distraction.
- Some end of day discussion time is allocated, but could extend to dinner if desired by the group.
- Please put the requested information on the sign-up sheet which will be passed around. This will be used to contact you for follow-up communications. (Name, Organization, email address)

Dinner

TBD

Discussion Topics

- What aspects of the problem might we consider solved?
- What are the key outstanding problems to be solved?
- How does the technology apply to other applications?

IEEE RAS Technical Committee – Space Robotics Status Report

Web info:

- IEEE site: <http://www.ieee-ras.org/technical-committees>
- TC site: <http://ewh.ieee.org/cmte/ras/tc/spacerobotics/>

Spring 2013 Chairs:

- Richard Volpe (JPL)
- Kazuya Yoshida (Tohoku Univ.)
- Dimi Apostolopoulos (CMU)

Membership

- List available online: <http://ewh.ieee.org/cmte/ras/tc/spacerobotics/membership/>

News and Reporting

- send comments, news, announcements to volpe@jpl.nasa.gov
- triennial review this year
- suggestions?

Upcoming Conferences

- Aerospace Conference March, 2014 (USA)
- I-SAIRAS June, 2014 (Canada)
- other?