

CSIC-JSPS International Smart Infrastructure Symposium
12-13 Nov 2012; Trinity Hall, University of Cambridge
UK Scientific Lead: Professor Kenichi Soga, The Cambridge Centre for Smart Infrastructure and Construction (CSIC)
Scientific Lead from Japan: Prof Yozo Fujino, University of Tokyo

Invited Speakers:

Dr. Tomonori Nagayama (University of Tokyo)
Dr Sarfraz Nawaz (University of Cambridge)
Dr Taro Uchimura (University of Tokyo)
Prof Hiroyuki Morikawa (University of Tokyo)
Dr Christos Efstratiou (University of Cambridge)
Dr Ashwin Seshia (University of Cambridge)
Professor Yuzo Ohnishi (Kyoto University)
Prof Roberto Cipolla (University of Cambridge)
Prof Kazuo Hotate (University of Tokyo)
Dr Mohammed Elshafie (University of Cambridge)
Neil Moss (London Underground Ltd.)
Dr Kiwamu Tsuno (Japan Railway Technical Research Institute)
Michael Devriendt (Arup)
Prof Campbell Middleton (CSIC, University of Cambridge)
Mitsuhiko Okada (The Overseas Coastal Area Development Institute of Japan)
Prof Akimasa Fujiwara (Hiroshima University)
Prof Noboru Koshizuka (University of Tokyo)
Prof Duncan McFarlane (CSIC, University of Cambridge)
Dr Takashi Kamitake (Toshiba)
Dr Ying Jin (University of Cambridge)
Prof Tim Broyd (University College London)

37 attended the first day of presentations and discussion which focused on new technologies for smart infrastructure. Ten presentations were given by researchers from the UK and Japan and the topics covered were computer vision, MEMS, WSN, Fibre optics and energy harvesting. The meeting was truly cross-disciplinary and possible research collaboration projects have been identified.

80 attended the second day event including stakeholders from industry, which focused on the business opportunities for smart infrastructure industry. A total of eleven presentations were given mainly by practicing engineers from the UK and Japan. The discussion concentrated on the value of sensing for smart infrastructure. The feedbacks from the industrial participants were very positive and many of them said that they learned something different from the presentations.

R&D needs for efficient management of infrastructure was discussed with the aim of developing international smart infrastructure collaborations between Japan and the UK. The symposium featured business opportunities in the innovative use of emerging technologies in sensor and data management, as well as the emerging best practice in applying manufacturing and supply chain management approaches to construction and infrastructure.

Shared concerns over increasing costs of maintaining aging infrastructure, while building for the future, means that this symposium was well-timed, as both the UK and Japan are in a very good position to develop and exploit the technologies and innovations emerging right now. The outcomes

of the two day event naturally led to the JSPS 80th year anniversary event on the following day in London.

Some of the key participants of the symposium are currently discussing to have a second international symposium at Kyoto University in 2013.



Symposium attendees