

HYOWON LEE B.Eng., M.Sc., Ph.D.

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Last updated : 5 Sept 2009

Post-doctoral Researcher in the field of
Interaction Design & Visualisation for Multimedia Applications

Member of CLARITY: The Centre for Sensor Web Technologies

Centre for Digital Video Processing
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CURRENT WORK: SUMMARY

As a post-doctoral researcher in the Centre for Digital Video Processing and CLARITY: Centre for Sensor Web Technologies, my role is to monitor various technological developments within the centre and come up with new application scenarios, design interaction strategies and user-interfaces that incorporate those technologies. I research the ways to help this design process where the target applications are novel and no user base is available, and also apply these on a number of different interaction platforms. I am the main driver of this interaction design aspect of our Centre's research. I co-supervise a number of Ph.D students, serve in a design consultancy role for numerous projects within the Centre, and use the experiences I gained from these activities in formalising design methodologies for novel application design. I also attend international conferences & workshops to present my design solutions, give talks in seminars and other invited events.

EDUCATION

- **B.Eng in Computer Science**, Soong Sil University, Seoul, South Korea, 1990 – 1995.
- **M.Sc in Information and Library Studies**, Robert Gordon University, Aberdeen, U.K., 1995 – 1996.
- **Ph.D in Computer Science**, Dublin City University, Ireland, 1997 – 2001.

RESEARCH ACTIVITIES

Research Expertise

Interaction Design & Visualisation for Emerging Technologies; Human-Computer Interaction and Usability for Novel Applications.

Contribution & Service to Research Community

- **Editorial Board**, Intl. Journal of Mobile Human-Computer Interaction, 2008-10.
- **Programme Committee** for 7 European/International Conferences, 2005 – 2009.
- **Organisation**: Publicity Chair, Local Organiser, and Submission Chair for 4 International and European conferences & workshops, 2001 - 2009.
- **Reviewer** of 21 books, journals, book chapters, conferences and workshops, 2002 – 2009.
- **Guest speaker** at 4 International Workshops (2002, 2006, 2007 & 2009).
- **11 Invited seminar** talks at research groups including Glasgow University (2008), Napier University (2008), City University London (2009), Open University (2009), and University of North Carolina Chapel Hill (2009).

Membership

- Member, ACM (Association for Computing Machinery), 2004 - Now.

- Member, IEEE (Institute of Electrical and Electronics Engineers), 2006 - Now.

PUBLICATIONS

- 62 Refereed publications, including 6 journal articles and 2 book chapters.
- 14 Refereed publications in 2008 alone, including 1 journal article and 1 book chapter as primary author.

PATENTS

- Multimedia Management (No. WO2004043029, International/European), 2004.
- Method and apparatus to provide broadcasting program information on screen of broadcast receiver, 2009.

AWARDS & SCHOLARSHIPS

- **Four-Year Full Scholarship**, Soong Sil University, Seoul, Korea, 1990 – 1995.
*Recipient of 4-Year Full Scholarship during the undergraduate course for receiving highest results at national entrance exam *among all applicants*; invited by then President of South Korea, Roh Tae-Woo, to the Blue House for this achievement (April 1990).
- **Postgraduate Prize runner-up**, Library & Information Research Group, U.K., 1997
*M.Sc dissertation was one of the runners-up at LIRG Postgraduate Prize 1997, and was highly commended by the Group (appeared in IIS newsletter Inform no.199, Nov 1997).
- **Albert College Junior Fellowship**, Dublin City University, Ireland, 2002.
- **Dublin City University Research Fellowship**, Dublin City University, Ireland, 2008 - 2010.

SUPERVISION

- Co-supervisor of 4 graduated and 2 current Ph.D students (2005-9)
- Supervisor of 3 M.Sc projects (2007-9)
- Co-supervisor of 5 undergraduate projects (2003-8)
*One of them won IBM Open Source Competition, May 2008.
- Supervisor of 3 Online Dublin Computer Science Summer School students (2007-9)
*One of them won IBM Presentation Award, September 2007.

TEACHING

Module Coordinator & Lecturer for:

- Web Design (CA553) for M.Sc in e-Commerce, DCU, for 7 consecutive years (2001-7)
- Web Design & Implementation (CA669) for M.Sc in e-Commerce & Graduate Diploma in IT, DCU (2008 -)

11 Guest Lectures at Business School & School of Education DCU, School of Computing, Dublin Institute of Technology, and National College of Ireland (2002 – 2008).