

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

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Designer-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 designer-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 have been the main driver of this interaction design aspect of our Centre's research for the past 10 years. I co-supervise a number of Ph.D students, serve in a design consultancy role for numerous projects within and outside 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.

DESIGN & RESEARCH ACTIVITIES

Expertise and Competency

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

Creative Design of Future Applications through Research, Discussion, Brainstorming and Sketching; Aesthetic Design of User-Interaction and Novel Scenarios and Evaluation.

Contribution & Service to Research Community

- **Editorial Board**, Intl. Journal of Mobile Human-Computer Interaction, 2008-11.
- **General Co-Chair**, 4th Irish Human-Computer Interaction Conference, 2010.
- **Programme Committee** for 11 European/International Conferences, 2005 – 2011.
- **Organisation**: Proceedings Chair, Publicity Chair, Local Organiser, Submission Chair and General Chair for 6 International and European conferences & workshops, 2001 - 2011.
- **Reviewer** of 46 books, journals, book chapters, conferences and workshops, 2002 – 2010.
- **Guest speaker** at 5 International Workshops and Symposia (2002, 2006, 2007, 2009, 2010).
- **31 Seminar** talks at research groups including Glasgow University (2008), Napier University (2008), City University London (2009), Open University (2010), University of

North Carolina Chapel Hill (2009), University of Oldenburg (2010) and University of Toronto (2010)

Membership

- Member, ACM (Association for Computing Machinery).
- Member, IEEE (Institute of Electrical and Electronics Engineers).
- Member, IxDA (Interaction Design Association).
- Member, Institute of Ergonomics and Human Factors, U.K.

PUBLICATIONS

- **76** Refereed publications, including **7** journal articles and **2** book chapters (1999 – 2011)
- Total number of citations: **665**, h-index: **16** (Google Scholar, as of 17 May 2011)

PATENTS

- **3** International/European Patents on Multimedia Management (2004) and Interactive TV presentation (2009 and 2010).

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 (2005-10)
- Supervisor of **8** M.Sc projects (2007-2011)
- Co-supervisor of **7** undergraduate projects (2003-2011)
*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 -)

16 Guest Lectures at Business School & School of Education DCU, School of Computing, Dublin Institute of Technology, and National College of Ireland (2002 – 2011).