

Human-Engaged Computing

Project Leader

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Faculty Members Involved in this Project

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1. Objective

This project is aimed at:

Conducting *Human-Engaged Computing* (HEC) research. HEC is a new research area concerning synergized interaction between humans and technologies and seeks to leverage full capacities of both humans and technologies for the well-being of the global society. This project will carry out studies to design and develop interactive systems that promote full engagement, well-being, behavioral change and that support HCI researchers to innovate with progressive widening global awareness and relevance to considered human priorities.

Related article/paper/info:

1. Xiangshi Ren. 2016. Rethinking the Relationship between Humans and Computers. *Computer*, 49(8), 104-108. IEEE.
2. Umer Farooq, Jonathan Grudin, Ben Shneiderman, Pattie, and Xiangshi Ren. 2017. Human Computer Integration versus Powerful Tools. *Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems*. 1277-1282. ACM.
3. International Workshop on Human-Engaged Computing. <http://forum.chec.ren/>. Last accessed on December 14, 2017.
4. Kavous Salehzadeh Niksirat, Sayan Sarcar, Huatong Sun, Effie Lai-Chong Law, Torkil Clemmensen, Jeffrey Bardzell, Antti Oulasvirta, Chaklam Silpasuwanchai, Ann Light, Xiangshi Ren. 2018. Approaching Engagement towards Human-Engaged Computing. *Proceedings of the 2018 CHI Conference Extended Abstracts on Human Factors in Computing Systems*. ACM.
5. Effie Lai-Chong Law, Chaklam Silpasuwanchai, Xiangshi Ren, Jeffrey Bardzell, Torkil Clemmensen, and Yan Liu. 2015. Leveraging and Integrating Eastern and Western Insights for Human Engagement Studies in HCI. *Proceedings of the 33rd Annual ACM Conference Extended Abstracts on Human Factors in Computing Systems*. 2433-2436. ACM.

2. Project Outline

To that end, the project will consist of the following phases:

- (a) Undertake systematic literature reviews
- (b) Design and develop interactive systems
- (c) Conduct formal HCI evaluations
- (d) Establish frameworks and guidelines
- (e) Communicate findings, guidelines and encouraging perspectives to HCI practitioners

3. Expected Performance

In this project, the successful candidate would be expected to:

- (a) Publish at least 2 research papers in top-tier HCI conferences (*ACM CHI, ACM UIST*) & journals (*ToCHI, HCI*)
- (b) Assist the lab supervisor in research and management
- (c) Assist in the supervision of Masters & Bachelor students
- (d) Report project progress in meetings and update progress to the laboratory's website

4. Required Skills and Knowledge

The successful candidate for this project will have the following knowledge and skills:

- (a) Strong background in HCI, Computer Science, Design, Psychology or Neuroscience
- (b) Strong software development skills
- (c) Strong communication ability and interpersonal skills
- (d) Strong verbal and written English skills
- (e) Ability to meet tight work deadlines
- (f) Ability to work independently as well as in an international team

See our lab website:

<http://xrenlab.com/>

<http://xiangshiren.com/>

<http://forum.chec.ren/>

See our admission guidelines:

https://www.kochi-tech.ac.jp/english/admission/ssp_aft19oct/ssp_application_guideline.html

Contact

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