Human-Engaged Computing

Project Leader
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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 admission guidelines:
http://www.kochi-tech.ac.jp/kut_E/graduate/admission.html

See our lab website:
http://xrenlab.com/
http://xiangshiren.com/
http://forum.chec.ren/

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