

YUICHIRO TAKEUCHI is a Toronto-born computer scientist currently based in Kyoto. The goal of his research is to bring about a new era of bottom-up, computational urbanism — a future in which cities are collectively designed and built by citizens like the online encyclopedia Wikipedia. His work has been recognized with multiple domestic and international awards such as the ACM CHI Best Paper Award. He is an active member of the academic community, and has served in various leadership roles including general chair of ACM ISS 2018.

email: yutak@acm.org website: <https://tinylab.me/>

WORK EXPERIENCE

Director 2018 - Present
Wikitopia Institute

Researcher 2008 - Present
Sony Computer Science Laboratories Inc.

Researcher 2014 - 2018
Japan Science and Technology Agency (JST) PRESTO

Visiting Engineer 2013
Studio Olafur Eliasson

Visiting Researcher 2011
Department of Computer Science, New York University

EDUCATION

Graduate School of Design, Harvard University 2010 - 2012
Master in Design Studies (MDes)

Department of Frontier Informatics, The University of Tokyo 2003 - 2008
Doctor of Philosophy (PhD)

Faculty of Engineering, The University of Tokyo 1999 - 2003
Bachelor of Engineering (BEng)

MAJOR GRANTS

JST MIRAI Grant 2017 - 2019
Principal Investigator, approx. 30 million yen including overhead

JST PRESTO Grant 2014 - 2018
Principal Investigator, approx. 58 million yen including overhead

LANGUAGES

Japanese (Native Proficiency), English

SELECTED PUBLICATIONS

Takeuchi, Y., Nagamine, K. Theory and Implementation of Integral Illumination. IEEE Access, vol.10. pp.939-950. 2022.

<https://tinylab.me/publications/access22ii.pdf>

Takeuchi, Y. Ninja Codes: Exploring Neural Generation of Discreet Visual Codes. In Ext. Abst. of the 2021 CHI Conference on Human Factors in Computing Systems (CHI 2021). No. 224.

<https://tinylab.me/publications/chi21nc.pdf>

Takeuchi, Y. From Smart Cities to Wikipotopia: An Essay on Future Urbanism. Journal of The Society of Instrument and Control Engineers, vol.58, no.8. pp.588-593. 2019. (In Japanese)

<https://tinylab.me/publications/sice19wt.html>

Takeuchi, Y. 3D Printable Hydroponics: A Digital Fabrication Pipeline for Soilless Plant Cultivation. IEEE Access, vol.7. pp.35863-35873. 2019.

<https://tinylab.me/publications/access19ph.pdf>

Takeuchi, Y., Suwa, S., Nagamine, K. AnyLight: Programmable Ambient Illumination via Computational Light Fields. In Proc. of the 2016 ACM International Conference on Interactive Surfaces and Spaces (ISS 2016). pp.39-48.

<https://tinylab.me/publications/iss16al.pdf>

Takeuchi, Y. Printable Hydroponic Gardens: Initial Explorations and Considerations. In Ext. Abst. (alt.chi) of the 34th ACM Conference on Human Factors in Computing Systems (CHI 2016). pp.449-458.

<https://tinylab.me/publications/chi16pg.pdf>

Takeuchi, Y. Towards Habitable Bits: Digitizing the Built Environment. In Proc. of the Ninth ACM International Conference on Interactive Tabletops and Surfaces (ITS 2014). pp.209-218. **Honorable Mention Award.**

<https://tinylab.me/publications/its14hb.pdf>

Takeuchi, Y. Building a World of Habitable Bits. ACM Interactions, vol.21, no.6. pp.52-57. 2014.

<https://tinylab.me/publications/interactions14hb/index.html>

Takeuchi, Y., You, J. Whirlstools: Kinetic Furniture with Adaptive Affordance. In Ext. Abst. of the 32nd ACM Conference on Human Factors in Computing Systems (CHI 2014). pp.1885-1890.

<https://tinylab.me/publications/chi14ws.pdf>

Takeuchi, Y. Parallel Cities. In Proc. of the 19th ACM Symposium on Virtual Reality Software and Technology (VRST 2013). pp.89-92.

<https://tinylab.me/publications/vrst13pc.pdf>

Takeuchi, Y., Perlin, K. ClayVision: The (Elastic) Image of the City. In Proc. of the 30th ACM Conference on Human Factors in Computing Systems (CHI 2012). pp.2411-2420. **Best Paper Award.**

<https://tinylab.me/publications/chi12cv.pdf>

Takeuchi, Y. Synthetic Space: Inhabiting Binaries. In Ext. Abst. (alt.chi) of the 30th ACM Conference on Human Factors in Computing Systems (CHI 2012). pp.251-260.

<https://tinylab.me/publications/chi12ss.pdf>

Takeuchi, Y. Gilded Gait: Reshaping the Urban Experience with Augmented Footsteps. In Proc. of the 23rd Annual ACM Symposium on User Interface Software and Technology (UIST 2010). pp.185-188.

<https://tinylab.me/publications/uist10gg.pdf>

Takeuchi, Y. Weightless Walls and the Future Office. In Proc. of the 28th ACM Conference on Human Factors in Computing Systems (CHI 2010). pp.619-628.

<https://tinylab.me/publications/chi10ww.pdf>