

Parinya Punpongsanon

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Employment

Assistant Professor, <i>Osaka University</i>	04/2018 - Present
Sensing and Intelligent Systems Laboratory Department of System Innovation, Graduate School of Engineering Science	
Postdoctoral Associate, <i>Massachusetts Institute of Technology</i>	01/2017 - 03/2018
Human-Computer Interaction Engineering (HCIE) Group Computer Science and Artificial Intelligence Laboratory (CSAIL) Mentor: <i>Prof. Stefanie Mueller</i>	
Postdoctoral Fellow, <i>Osaka University</i>	10/2016 - 01/2018
Intelligence Sensing Group Graduate School of Engineering Science Sponsors by Japan Society for the Promotion of Science (JSPS) Advisor: <i>Prof. Kosuke Sato</i>	

Education

Ph.D. in Engineering, <i>Osaka University, Japan</i>	September 2016
System Innovation, Graduate School of Engineering Science, Under advisory of <i>Prof. Kosuke Sato</i> and <i>Prof. Daisuke Iwai</i>	
Bachelor of Science, <i>King Mongkut's University of Technology, Thailand</i>	April 2010
School of Computer Science and Information Technology, MAJOR GPA: 3.63/4.00 (First Class Honor)	

Experience

Visiting Researcher, <i>Telecom ParisTech (Universite Paris-Saclay)</i>	12/2013 - 02/2014
Computer Graphics Group Collaborated under project 'Lazy 3D Navigation using Non-Critical Body Interaction' Under advisory of <i>Prof. Tamy Boubekeur</i>	
Exchange Student, <i>Fukui University</i>	10/2008 - 09/2009
Human and Computational Intelligence System Laboratory School of Engineer Sponsors by Japan Society for the Promotion of Science (JSPS) Under advisory of <i>Prof. Yasuhiro Ogoshi</i>	

Grants and Awards

Best Student Paper, <i>IEEE Kansai Section</i>	2017
Best Student Volunteer, <i>ACM UIST 2016</i>	2016
Grant, <i>JSPS Research Fellow</i>	2016
Best Paper, <i>IEEE 3DUI 2015</i>	2015
Best Student Volunteer, <i>ACM SIGGRAPH Asia 2014</i>	2014
Best Presentation, <i>Korea-Japan Workshop on Mixed Reality 2013</i>	2013
Grant, <i>MEXT Scholarship (Oct. 2011 - Sep. 2016)</i>	2011
1st Class Honor, <i>King Mongkut's University of Technology Thonburi</i>	2010

Skills

Software	Python, C/ C++ , HTML/CSS/Javascript, MATLAB, OpenCV
Hardware	Projector-Camera system, Laser Cutter, 3D Printer

JOURNALS

1. Parinya Punpongsanon, Emilie Guy, Daisuke Iwai, Kosuke Sato, and Tamy Boubekeur. ‘Extended LazyNav: Virtual 3D Ground Navigation for Large Displays and Head-Mounted Displays’, *IEEE Transactions on Visualization and Computer Graphics*, Vol. 23, No. 8, pp. 1952-1963. August 2017.
2. Parinya Punpongsanon, Daisuke Iwai, and Kosuke Sato. ‘SoftAR: Visually Manipulating Haptic Softness Perception in Spatial Augmented Reality’, *IEEE Transactions on Visualization and Computer Graphics*, Vol. 21, No. 11, pp. 1279-1288. November 2016.
3. Parinya Punpongsanon, Daisuke Iwai, and Kosuke Sato. ‘Projection-based Visualization of Tangential Deformation of Nonrigid Surface by Deformation Estimation Using Infrared Texture’, *Springer: Virtual Reality*, Vol. 19, No. 1, pp. 45-56. March 2015.

CONFERENCE PAPERS AND NOTES

1. Parinya Punpongsanon, Xin Wen, David S. Kim, and Stefanie Mueller. ‘ColorMod: Recoloring 3D Printed Objects using Photochromic Inks’, *In Proceedings of ACM SIGCHI Conference on Human Factors in Computing Systems (CHI) 2018*, pp. 213:1-213:12, 2018.
2. Emilie Guy, Parinya Punpongsanon, Daisuke Iwai, Kosuke Sato, and Tamy Boubekeur. ‘LazyNav: 3D Ground Navigation with Non-Critical Body Parts’, *In Proceedings of IEEE Symposium on 3D User Interfaces (3DUI)*, pp. 43-50, 2015.
3. Parinya Punpongsanon, Emilie Guy, Tamy Boubekeur, Daisuke Iwai, and Kosuke Sato. ‘Ground Navigation in 3D Scene using Simple Body Motions’, *In Proceedings of International Conference on Artificial Reality and Telexistence and Eurographics Symposium on Virtual Environments (ICAT-EGVE)*, pp. 19-20, 2014.
4. Parinya Punpongsanon, Daisuke Iwai, and Kosuke Sato. ‘SoftAR: Visually Manipulating Haptic Softness Perception in Spatial Augmented Reality’, *In Proceedings of IEEE Symposium on Mixed and Augmented Reality (ISMAR)*, pp. 1279-1288, 2016.
5. Parinya Punpongsanon, Daisuke Iwai, and Kosuke Sato. ‘A Preliminary Study on Altering Surface Softness Perception using Augmented Color and Deformation’, *In Proceedings of IEEE Symposium on Mixed and Augmented Reality (ISMAR)*, pp. 301-032, 2014.
6. Parinya Punpongsanon, Daisuke Iwai, and Kosuke Sato. ‘DeformMe: Projection-based Visualization of Deformable Surfaces using Invisible Textures’, *In Proceedings of ACM SIGGRAPH Asia (Emerging Technologies)*, Article 8, 2013.
7. Parinya Punpongsanon, Daisuke Iwai, and Kosuke Sato. ‘Infrared-based Tangential Deformation Estimation Technique’, *In Proceedings of the 6th Thailand-Japan International Academic Conference (TJIA)*, Article 3, 2013.

Invited Talks

University of Tokyo, Japan	2016
‘Projection-based Mixed Reality for Deformable Objects’	
The 19th Meeting on Image Recognition and Understanding (MIRU 2016), Japan	2016
‘SoftAR: Visually Manipulating Haptic Softness Perception in Spatial Augmented Reality’	
IEEE TVCG VR/AR Special Session, ACM SIGGRAPH 2016, USA	2016
‘SoftAR: Visually Manipulating Haptic Softness Perception in Spatial Augmented Reality’	
The 18th Annual Meeting on Virtual Reality in Japan, 3DUI Top Conference, Japan	2015
‘LazyNav: 3D Ground Navigation with Non-Critical Body Parts’	
The 6th Korea-Japan Workshop on Mixed Reality, Japan	2013
‘Projection-based Mixed Reality for Deformable Surfaces’	

Organization Committee

ISS 2018 (Doctoral Consortium Co-Chair) • UIST 2018 (Documentation Chair) • UIST 2017 (Documentation Chair) • SCF 2017 (Local Arrangement Chair) • CHI 2017 (Session Chair) • SUI 2016 (Documentation Chair) • VRSJ 2016 (Design Chair) • ICAT-EGVE 2015 (Design Chair)

Peer-Reviewer

IEEE ISMAR (2018, 2017, 2016) • ACM SIGGRAPH/SIGGRAPH Asia (2018, 2017, 2016) • ACM SUI (2018, 2016) • ACM UIST (2017, 2016, 2015) • ACM VRST (2018, 2017, 2016, 2015) • ACM HRI (2017, 2016, 2015)

Student Volunteer

ACM UIST 2016 • ACM UbiComp 2015 • ACM SIGGRAPH Asia 2014 • ACM Multimedia 2012

Update: May 2018