Suzi Kim

Ph.D. Candidate, Geometric Computing Lab., School of Computing, KAIST
Email: kimsuzi@kaist.ac.kr   **GitHub**: @suzikim   **Homepage**: https://www.kimsuzi.com/cv

Research interests	Computer graphics, video processing, 3D model processing

Education

Ph.D. @KAIST   Daejeon, South Korea
Geometric Computing Lab., School of Computing   Mar. 2016 – Present
Advisor: Prof. Sunghee Choi (*GPA: 3.93 / 4.3*)

M.S. @KAIST   Daejeon, South Korea
Geometric Computing Lab., School of Computing   Sep. 2014 – Feb. 2016
Advisor: Prof. Sunghee Choi (*GPA: 3.98 / 4.3*)
Thesis: Generation of Three-Dimensional Typography for Multiple Texts

B.S. @KAIST   Daejeon, South Korea
Department of Computer Science   Feb. 2008 – Feb. 2012
(*GPA: 3.55 / 4.3, Cum Laude*)

Exchange Researcher @Tokyo Tech   Yokohama, Japan
Imaging Science and Engineering Lab.,   Jun. 2016 – Aug. 2016
Department of Information and Communications Engineering
Advisor: Prof. Hiroshi Nagahashi

Work Experiences

Research Intern @Adobe   Remote
Creative Technologies Lab   Oct. 2021 – Dec. 2021

Full-time Developer @Prezi   Budapest, Hungary
iOS Team   Apr. 2013 – Aug. 2014
Development of the mobile Prezi application

Associate @DSME   Geoje, South Korea
Information Technology Team, R&D Institute   Jan. 2012 – Feb. 2013
Development of Android-based CAD applications

Intern @DSME   Geoje, South Korea
Information Technology Team, R&D Institute   Jul. 2011
Parsing of the loading tree structure for DEP simulation

Undergraduate Research Intern @KAIST   Daejeon, South Korea
Visual Media Lab., Graduate School of Culture Technology   Jan. 2010 – Jun. 2010
Advisor: Prof. Junyong Noh
Practical interface development based on fluid simulation

Undergraduate Research Intern @ETRI   Daejeon, South Korea

Vehicle & Defense IT Convergence Research Department   Jul. 2010 – Aug. 2010

E-Navigation apparatus investigation and sensor simulator implementation for YAN platform

Undergraduate Research Intern @KAIST   Daejeon, South Korea

Korean Language Engineering Lab.,   Aug. 2010 – Aug. 2011

Department of Humanities & Social Sciences

Advisor: Prof. Bu-yong Shin

Development of Windows-based HUPS (Hangul-based Universal Phonetic System)

Honors and Awards

Best Paper Presentation Award   Aug. 2020

2020 Korea Computer Congress

Best Paper Award   Dec. 2019

2019 Korea Software Congress

Best Presenter Team on the Sustainability and Tourism   Aug. 2019

2019 AOTULE Summer Program

Best Paper Presentation Award   Aug. 2019

2019 Korea Computer Congress

Distinguished Paper Award   Jun. 2019

19th International Conference on Web Engineering

Best Teaching Assistant Awards   Aug. 2018

TA of CS408 Computer Science Project, School of Computing, KAIST

Best Paper Award   Jun. 2018

2018 Korea Computer Congress

Best Teaching Assistant Awards   Aug. 2017

TA of CS504 Computational Geometry, School of Computing, KAIST

Top 5 Best Presenter   Aug. 2016

The Multidisciplinary International Student Workshop 2016

Best Paper Presentation Award   Oct. 2015

2015 WISET STEM Research Team Project, KIISE

Scholarship Student   Sep. 2010 – Dec. 2011

DSME (Daewoo Shipbuilding & Marine Engineering Co., Ltd)

Honorable Mention   Nov. 2009
The ACM Asia Programming Contest Seoul Site 2009

Award for Outstanding Application of Formal Design Theories   Feb. 2009
KAIST

Professional Activities

Innscid SP   São Paulo, Brazil
The São Paulo School Of Advanced Science in Science Diplomacy   Aug. 2019
and Innovation Diplomacy
University of São Paulo (USP)

AOTULE Summer Program   Bandung, Indonesia
The Asia-Oceania Top University League on Engineering   Aug. 2019
Institut Teknologi Bandung (ITB)

AOTULE Graduate Student Research Exchange   Yokohama, Japan
The Asia-Oceania Top University League on Engineering   Jun. 2016 – Aug. 2016
Tokyo Institute of Technology (Tokyo Tech)

Green Challenge (GRØN DYST)   Copenhagen, Denmark
Technical University of Denmark (DTU)   Jun. 2015

International Publications

Dynamic Closest Color Warping to Sort and Compare Palettes
Suzi Kim and Sunghee Choi
ACM SIGGRAPH 2021, Aug. 2021

Automatic Color Scheme Extraction from Movies
Suzi Kim and Sunghee Choi
ACM International Conference on Multimedia Retrieval (ICMR), Jun. 2020

CityCraft: 3D Virtual City Creation from a Single Image
Suzi Kim, Dodam Kim, and Sunghee Choi
The Visual Computer, May. 2020. (Online published: May. 2019)

DotCHA: An Interactive 3D Text-based CAPTCHA
Suzi Kim and Sunghee Choi
Journal of Web Engineering, Jan. 2020

The Hitchhiker's Guide to the Eyewear Applications
Suzi Kim and Sunghee Choi
EyeWear: Third Workshop on Eye Wear Computing collocated with UbiComp/ISWC,
Sep. 2019

DotCHA: A 3D Text-based Scatter-type CAPTCHA

Suzi Kim and Sunghee Choi

19th International Conference on Web Engineering (ICWE), Jun. 2019 (Distinguished Paper Award)

Automatic Tooth Segmentation of Dental Mesh Using a Transverse Plane

Suzi Kim and Sunghee Choi

40th International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Jul. 2018

Automatic Generation of 3D Typography

Suzi Kim and Sunghee Choi

ACM SIGGRAPH 2016 (poster), Jul. 2016

An Easy Generation of Thriller Movie Poster from 3D Models

Suzi Kim, Sunghee Choi and Hiroshi Nagahashi

The Multidisciplinary International Student Workshop (MISW), Aug. 2016

Eco Image Printing

Heonjun Park and Suzi Kim

GRØN DYST 2015, Jun. 2015

Domestic Publications

Color Palettes Comparison Using Cluster-based Hausdorff Distance

Suzi Kim and Sunghee Choi

KIISE Transactions on Computing Practices, Vol. 27, No. 10, pp. 492–496, Oct. 2021

Color Scheme Extraction Based on Image Segmentation and Saliency Map

Suzi Kim and Sunghee Choi

Journal of KIISE, Vol. 48, No. 3, pp. 302–307, Mar. 2021

Cluster-based Color Palettes Comparison

Suzi Kim and Sunghee Choi

Korea Computer Congress (KCC), Jul. 2020

CNN-based Real-time Grasping Point Detection Using RGB-D Images

Suzi Kim and Sunghee Choi

KIISE Transactions on Computing Practices, Vol. 26, No. 2, pp. 116–121, Feb. 2020

Color Scheme Extraction Using Segmentation and Saliency Maps

Suzi Kim and Sunghee Choi

Korea Software Congress (KSC), Dec. 2019

CNN-based Grasping Box Detection

Suzi Kim and Sunghee Choi

Korea Computer Congress (KCC), Jun. 2019

Saliency-based SVG Image Placeholder Generation
Suzi Kim and Sunghee Choi
Journal of KIISE, Vol. 46, No. 1, pp. 39–44, Jan. 2019

Saliency-based Pixel Art Image Generation
Suzi Kim and Sunghee Choi
Korea Software Congress (KSC), Dec. 2018

Saliency-based SVG Image Placeholder Generation
Suzi Kim and Sunghee Choi
Korea Computer Congress (KCC), Jun. 2018

Development of Scene-based Movie Recommendation Algorithm
Suzi Kim, Doheon Hwang, SooKyung Ahn, Gayoung Lee, SuA Yang, Yucheong Cho, and Sunghee Choi
2016 Vol.2 WISET Junior Science & Technology Research Reports, Nov. 2016

Development of Korean Font Detection System from Image
Suzi Kim, Jiyi Lee, Minsun Hong, Yerim Kang, Jinyoung Kim, Soyeon Park, Jiwon Lee, and Sunghee Choi
2015 Vol.1 WISET Junior Science & Technology Research Reports, Nov. 2015

Interface Development for Improving Efficiency of Fluid Special Effects Production
Soomin Yang, Suzi Kim, Taekwon Jang, and Junyong Noh
In Proc. of Korea Computer Graphics Society (KCGS) 2010 (Poster), Jun. 2010

Patents

Method and Apparatus for Extracting Color Scheme from Video
Sunghee Choi and Suzi Kim
KR1020200016109 (Feb. 2020), KR102245349 (Apr. 2021), PCT/KR2020/019061, CN202110022034.0 (Jan. 2021), US17143577 (Jan. 2021)

DotCHA: A 3D Text-based Scatter-type CAPTCHA
Sunghee Choi and Suzi Kim
KR1020170049182 (Apr. 2017)

Method and Apparatus for Pre-treating Image for Printing
Heonjun Park and Suzi Kim
KR1020150124385 (Sep. 2015), KR101769945 (Aug. 2017)

Method and Apparatus for Simulating Collision Splash
Soomin Yang, Suzi Kim, Taekwon Jang, and Junyong Noh

KR1020100077394 (Aug. 2010), KR101068673 (Sep. 2011)

Mobile Application for Displaying CAD Drawing
DSME
Program Registration: C-2012-021509
Korea Copyright Commission, Oct. 2012

Desktop-based Program for Viewing CAD Drawing
DSME
Program Registration: C-2012-021507
Korea Copyright Commission, Oct. 2012

Webservice Program for Viewing CAD Drawing
DSME
Program Registration: C-2012-021508
Korea Copyright Commission, Oct. 2012

Teaching Assistant	**CD401: Multidisciplinary Capstone Design** K-School, KAIST	Spring 2019
	Counseling Assistant School of Computing, KAIST	Fall 2018
	CS504: Computational Geometry School of Computing, KAIST	Fall 2017, Spring 2018
	CS408: Computer Science Project School of Computing, KAIST	Spring 2017
	CS300: Introduction to Algorithms School of Computing, KAIST	Spring 2016, Fall 2016
	CS204: Discrete Mathematics School of Computing, KAIST	Spring 2015
	CS101: Introduction to Programming Department of Computer Science, KAIST	Fall 2014
	HSS277: The World of Musicals School of Humanities & Social Sciences, KAIST	Spring 2011, Fall 2011
	HSS186: Understanding Music and Music History School of Humanities & Social Sciences, KAIST	Fall 2011

Reviewer   **IEEE EMBC**   2019

41st Annual International Conference of the IEEE Engineering in Medicine & Biology Society