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**Objectives**      **Keywords : Affective computing, Multimedia, Computer Human Interaction**  
I work on problems related to Affective Computing. The central goal of my study is to support effective communication between humans and systems and leverage user experience in the use of systems by exploiting multimedia processing techniques.

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**Key Skills**      **Knowledge in Vision, Audio, or Language Processing**  
: CNN, Multitask Learning, Transformer, Generative Network, Information Retrieval, etc.  
: Tensorflow, Pytorch

**Experience in UX & Prototyping**  
: Survey, Crowdsourcing survey, Interview, Focus group study, Domain Expert interview  
: Arduino, Android programing

**Project Experience**      **Light-weight Face Module**  
Light weight Multitask module for landmark detection, gaze estimation, and detection.

**Pet Monitoring System**  
Pet monitoring system with event notification and daily life summarization.  
Action recognition, detection, tracking

**Ambient Lighting – Interactive Art Installation**  
Provide multi-modal experience for users expressing their inner feelings and emotions visually and acoustically.

**Emotional Font Messenger**  
Study which font are useful for delivering emotions and introduced these fonts into a mobile chat app. Demonstrate how changes in the font affect users.

**Multimodal Font Search**  
Present a novel framework that helps users to explore a font dataset using the multimodal method

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Experience	<b>Multimodal Lab, Samsung Research</b> <i>Staff Engineer</i>	<b>Seoul, South Korea</b> April 2019-Current
	<b>Multimedia group at Naver corp.</b> <i>AI Researcher Intern</i> Worked on Ad design policy project at Advertisement AI team for two months	<b>Seongnam, South Korea</b> Aug 2018-Oct 2018
	<b>Multimedia and Human Understanding Group at University of Trento</b> <i>ICT researcher Intern</i> Worked on font-image pairing project with Professor Nicu Sebe and Ph.D. Gloria Zen funded by the European Commission for six months	<b>Trento, Italy</b> July 2017-Jan 2018
	<b>SAI. Venture Corporation</b> <i>Graphic Designer and Mobile App Developer (part-time)</i> Marketing application development for Android platform	<b>Tokyo, Japan</b> Jun 2013-Mar 2017
Education	<b>The University of Tokyo</b> - Doctor of Philosophy (Ph.D.) - Department of Interdisciplinary Information Studies - Thesis: Search and Communication Based on Affective Understanding of Fonts and Images - Supervised by Prof. Kiyoharu Aizawa	<b>Tokyo, Japan</b> Apr 2015-Mar 2019
	<b>The University of Tokyo</b> - Master of Arts and Science (M.A.S.) - Department of Interdisciplinary Information Studies - Thesis: Design of Queries for Affective Retrieval of Images - Supervised by Prof. Kiyoharu Aizawa	<b>Tokyo, Japan</b> Apr 2013-Mar 2015
	<b>Inha University</b> - Bachelor of Engineering (B.E.) - The Department of Electronic Engineering	<b>Incheon, South Korea</b> Mar 2007-Feb 2012
International Conference / Publications (peer-reviewed)	<u>Saemi Choi</u> , Matsumura Shun, Kiyoharu Aizawa <b>Social Font Search by Multimodal Feature Embedding</b> ACM Multimedia Asia, 2019	
	<u>Saemi Choi</u> , Matsumura Shun, Kiyoharu Aizawa <b>Assist Users' Interactions in Font Search with Unexpected but Useful Concepts Generated by Multimodal Learning</b> ACM ICMR, 2019	
	<u>Saemi Choi</u> , Kiyoharu Aizawa <b>Emotype: Expressing Emotions by Changing Typeface in Mobile Messenger Texting</b> Multimedia Tools and Applications, Springer	
	<u>Saemi Choi</u> , Kiyoharu Aizawa, Nicu Sebe <b>FontMatcher: Font Image Paring for Harmonious Digital Graphic Design</b> ACM IUI, 2018	

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Saemi Choi, Onkar Krishna, Wen Yu Lee, Kiyoharu Aizawa  
**MatPlanner: Plan Your Days in Conferences by Resolving Conflicting Events**  
ACM Multimedia, 2017

Saemi Choi, Kiyoharu Aizawa  
**Typeface Emotion Analysis for Communication on Mobile messengers**  
ACM Multimedia Workshop on Multimedia Alternate Realities, pp.37-40, 2016

Saemi Choi, Toshihiko Yamasaki, Kiyoharu Aizawa  
**An Interactive System based on Yes-No Questions for Affective Image Retrieval.**  
ACM Multimedia Workshop on Affect and Sentiment in Multimedia, pp.45-50, 2015

Saemi Choi, Yusuke Matsui, Kiyoharu Aizawa  
**Diffusion: Change the Ambience of a Space with a Small Amount of Ink.**  
SIGGRAPH ASIA Posters 2014

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Domestic  
conference  
(in Japan)

米倉遼太, 崔セミ, 吉橋亮太, 松井克文, ハウタサーリ アリ  
**英語のテキストチャットにおけるメッセージの感情価に基づく自動フォント選択システムの提案**  
信学技報, vol. 118, no. 502, MVE2018-76, pp. 131-136, 2019, Kagoshima

松村駿, 崔セミ, 相澤清晴  
**マルチモーダル学習による日本語フォントの検索**  
映像情報メディア学会冬季大会 2018 13-D6, Dec.20-21, 2018, Tokyo

宮田真理, 崔セミ, 相澤清晴  
**顔画像の部分変形に対する印象分析と予測**  
映像メディア処理シンポジウム(IMPS), 2018

崔セミ, グロリア ジェン, ニク セベ, 相澤清晴  
**マルチモーダル学習による創造的なフォント探索支援** (Best presentation award)  
電子情報通信学会技術研究報告, vol 118, no 112, 2018

王若聞, 崔セミ, 山崎俊彦, 相澤清晴  
**スタイル記述子によるファッションコーディネート感性評価**  
電子情報通信学会 画像工学研究会, Feb. 2016, Sapporo, Hokkaido

崔セミ, 山崎俊彦, 相澤清晴  
**質問応答による感性画像検索におけるユーザ行動分析**  
映像情報メディア学会年次大会 , 12C-3, Aug.26-28, Tokyo

崔セミ, 山崎俊彦, 相澤清晴  
**質問自動生成による感性画像検索システム**  
画像の認識・理解シンポジウム (MIRU 2015), DS2-12, July 26-30, 2015, Osaka

崔セミ, 山崎俊彦, 相澤清晴  
**YES-NO 質問に基づいた画像の感性的な検索**  
電子情報通信学会 マルチメディア・仮想環境基礎研究会, 信学技報, vol. 115, no. 125, MVE2015-18, pp. 63-67, July 2-3, 2015, Tokyo

Saemi Choi, Toshihiko Yamasaki, Kiyoharu Aizawa  
**QAIR: Question and Answer based Image Retrieval**  
映像情報メディア学会年次大会 2-3, Aug 31st – Sep.2, 2014, Osaka

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Articles

松井勇祐, 崔セミ, 山崎俊彦  
**ACM Multimedia (ACMMM) 2015 参加報告**  
映像情報メディア学会誌, vol. 70, no. 2, pp. 293-297, 2016

松井勇祐, 崔セミ  
**SIGGRAPH ASIA 2014 参加報告 (SIGGRAPH ASIA 2014 report)**  
映像情報メディア学会誌, vol. 69, no. 3, pp. 224-227, 2015.

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Languages	Korean (mother tongue), Japanese, English
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Funding	- TEAM ERASMUS MUNDUS mobility support funded by the European Commission (EU)	Jun 2017 - Jan 2018
	- Japanese Government (MEXT) Scholarship for Ph.D. Student (Embassy of the Republic of Korea selection)	Apr 2015 - Jun 2017
	- MEXT Scholarship for Master Student	Apr 2013 - Mar 2015
	- MEXT Scholarship for Research Student	Apr 2012 - Mar 2013