Yuki Ueno

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Education

Kyoto University — **Kyoto, Japan**
Master of Engineering in Electrical Engineering — *April 2017 – March 2019*
Advisors: Koji Koyamada and Hiroaki Natsukawa

Kyoto University — **Kyoto, Japan**
Bachelor of Engineering in Electrical and Electronic Engineering — *April 2013 – March 2017*
Advisor: Yuichi Nakamura

Journal Papers & Conference Proceedings

Exploration behavior of group-in-a-box layouts 2019
Yuki Ueno, Hiroaki Natsukawa, Nozomi Aoyama, Koji Koyamada
Visual Informatics, 3(1), 38-47, 2019

User Evaluation of Group-in-a-Box Variants 2019
Nozomi Aoyama, Yosuke Onoue, **Yuki Ueno**, Hiroaki Natsukawa, Koji Koyamada
Proceedings of IEEE Pacific Visualization Symposium (PacificVis), 127-136, 2019

Workshop & Symposium Papers

Task Performance Classification During Visualization Evaluations Based on Physiological Signals 2018
Yuki Ueno, Hiroaki Natsukawa, Nozomi Aoyama, Koji Koyamada
VizAfrica 2018 Visualization Symposium, 2018

A Computational Evaluation of Eye-Tracking Measures in Group-in-a-Box Layouts 2018
Nozomi Aoyama, **Yuki Ueno**, Koji Koyamada
VizAfrica 2018 Visualization Symposium, 2018

Theses

Analysis of Exploration Behavior in Graph Drawing Based on Physiological Information 2019
Master's Thesis, Kyoto University Graduate School of Engineering

Modeling Machine Manipulation and Structuring Experience Videos Focusing on Differences in Skill Level 2017
Bachelor's Thesis, Kyoto University Faculty of Engineering

Research Experience

Visualization Evaluations Based on Physiological Responses — **Kyoto University**
Domain: Human-Computer Interaction, Visualization, Cognitive Science — *April 2017 – March 2019*
Advisors: Koji Koyamada, Hiroaki Natsukawa

- Investigated the behavior of participants performing a complicated graph-drawing task based on performance measures (accuracy and response time) and physiological signals (eye-tracking, EEG , pulse wave, and blink rate)
- Designed a task in which information obtained from the visualization could affect task performance
- Analyzed the result of the task to detect which visualization elements affected task performance

Emotion Estimation Based on Physiological Responses — **DENSO Corporation**
Domain: Human-Computer Interaction, Cognitive Science — *January 2018 – February 2018*
Advisor: Fumihiko Murase

- Investigated the relationship between subjects' emotions and physiological responses experienced while watching a video
- Designed a task to elicit different emotions and collected subject feedback and physiological measures (EEG, ECG, electrodermal activity, cerebral blood flow, and pulse wave)

- Analyzed task results to infer the most reliable physiological responses for estimating emotion

Skin Color Detection **Kyoto University**
Domain: Computer Vision *April 2017 – June 2017*
Advisor: Kazuaki Kondo

- Implemented a skin color detection program using a region- growing algorithm
- Investigated the optimal color space for skin color detection

Modeling Machine Manipulation and Structuring Experience Videos **Kyoto University**
Domain: Human-Computer Interaction, Computer Vision *April 2016 – March 2017*
Advisor: Yuichi Nakamura

- Modeled manipulation of a sewing machine to create a meaningful instructional manual from experience videos
- Detected necessary manipulations automatically from experience videos focusing on where experts and novices touched
- Investigated the optimal physical features for designing a manual from experience videos

Teaching Experience

ILAS Seminar in Koyamada Lab. **Kyoto University**
Teaching Assistant *April 2018 – July 2018*

Visualized Simulation Technology **Kyoto University**
Teaching Assistant *October 2017 – January 2018*

Spacio-temporal Data Analysis for Multimedia **Kyoto University**
Teaching Assistant *April 2017 – July 2017*

Industry Experience

DENSO Corporation **Aichi, Japan**
Data Engineer & Business Intelligence Engineer *April 2019 – Present*

- Develop a visualization system with Tableau and Snowflake to monitor project-management metrics
- Develop a visualization system with ELK Stack to monitor application log data
- Create and manage data pipelines, data warehouses, and data lakes, working with AWS technologies

Service

Student Volunteer, Pacific Vis 2018

Technical Skills

Languages: Python, C, SQL (PostgreSQL), JavaScript, HTML/CSS, MATLAB
Frameworks: React, Django, Material-UI
Visualization Tools: Tableau, Power BI, Elasticsearch, Kibana
Developer Tools: Git, Subversion, Docker, Jenkins, AWS, VS Code

Professional Certificates

AWS Certified SysOps Administrator – Associate (2021)
AWS Certified Solutions Architect – Associate (2021)
AWS Certified Cloud Practitioner (2020)