Ju-Seung Byun

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Research Interests

Reinforcement Learning, Multimodal Learning, Optimization

Education

The Ohio State University, Columbus, OH, USAAug 2019 - Present

• Ph.D. student in Computer Science

• Master in Computer Science

- Bachelor in Computer Science
- Minor, Mathematics

Publications

• Training Transition Policies via Distribution Matching for Complex Tasks Ju-Seung Byun, Andrew Perrault

The Tenth International Conference on Learning Representations (ICLR 2022) | Paper

Paper Cod

- Proximal Policy Gradient: PPO with Policy Gradient Ju-Seung Byun, Byungmoon Kim, Huamin Wang arXiv:2010.09933
- Development of application that removes moving objects from pictures Ju-Seung Byun, Min-ho Kim, Byung Seok Shin Korea Information Processing Society (KIPS) Jeju, Korea, 2017 Fall.

Academic Experience

- Participating in Core 3D Project
 - Developed 3D Viewer for Skeleton Structure System Buildings
 - Hole Filling Resulting from Plane Detection RANSAC
 - Rectify DEM Data through Deep Learning

Course and Personal Projects

ourse and Personal Projects
■ Composing Primitive Skills in a Complex Environment by Embedding ObservationFeb 2019
■ Implementation of Simple Inverse Kinematic Chains Link
■ Ray Tracing with CUDA Link
■ 2D Particle System and Smoothed Particle Hydrodynamics for Water Simulation LinkMar 2018
• Simulating a Catmull-Rom Spline Roller Coaster Link

■ Jell-O Cube Simulation with Objects and User Interaction Link
■ Implement Simple Cloth Simulation with Ball Link
■ Image Processing Android App for Removing Unwanted Objects in Pictures Link
Inha University, Computer Science Media Lab
 Participated in Lab Seminar Related to Computer Graphics
 Developed Image Viewer for Medical Picture
Work History
Republic of Korea Army, Field Communication Unit
• Assignment: Signal Corpsman Rank: Sergeant
 Served as Squad Commander for the last four months
Teaching assistants
OSU, CSE-1223 Introduction to Computer Programming In JavaFall 2020
 Duties including office hours and holding lab sections.
OSU, CSE-1223 Introduction to Computer Programming In Java
 Duties including office hours and holding lab sections.
OSU, CSE-5544 Introduction to Data VisualizationFall 2019
 Duties including office hours and grading projects.
USC, CSCI-520 Computer Animation and Simulation (Grader)
■ Evaluating three programming assignments in C/C++ and OpenGL

Computer Skills

Languages: C, C++, Java, Python, MATLAB, CSS, JavaScript, HTML Tools & Libraries: OpenGL, Cuda, PyTorch