Zong-Sheng WANG

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LinkedIn: @wangzs GitHub: github.com/wzsh

RESEARCH INTERESTS

• Computer Graphics

Virtual Reality, Animation, GPU Programming

• Machine Learning

Reinforcement Learning, Optimization Algorithm

EDUCATION

Hallym University

Ph.D. in Convergence Software, GPA: 4.50/4.50

Chuncheon, South Korea Sep. 2017–Aug. 2021

- Dissertation: "Controllable Swarm Animation using Deep Reinforcement Learning with a Rule-based Action Generator"
- Advisor: Prof. Sun-Jeong Kim

Hallym University

M.Eng. in Computer Engineering, GPA: 4.38/4.50

Chuncheon, South Korea Mar. 2012–Feb. 2014

- Thesis: "GP-GPU based Smoothed Particle Hydrodynamic Fluid Simulation"

Hallym University

B.Eng. in Computer Engineering, GPA: 4.27/4.50, Rank: 2/71

Chuncheon, South Korea

Mar. 2010–Feb. 2012

- Yantai University Hallym University Joint Program
- Award: "Outstanding Graduates"

Working Experience

Hallym University

Department of Convergence Software

Chuncheon, South Korea Sep. 2017–Aug. 2020

- Research Assistant

Weifang Maternity and Child Care Hospital

Information Management Section

Weifang, China May. 2014–Sep. 2017

- Software Engineer
- Desktop Application Development (Qt, C#), Web Service Development (Java, NodeJS)

SKILLS AND INTERESTS

• Professional Skills

C/C++, Java, Python, Unity3D, Latex, Web, PostgreSQL, Tensorflow, Pytorch

Languages

Mandarin(native), Korean(fluent), English(literacy), Japanese(novice)

• Interests

Soccer, Kendo, History

TEACHING

• Mentor in <i>Unity Shader Programming</i> at Hallym University	Fall 2019
• Mentor in Web Application Development in GVE Lab	Winter 2018
• Teaching Assistant at Hallym University Computer Graphics Smartphone Programming (iOS)	Spring 2013
• Teaching Assistant at Hallym University Game Programming (DirectX 11) Smartphone Programming (iOS)	Fall 2012
• Teaching Assistant at Hallym University Computer Programming (Java) Data Structure	Spring 2012
Honors and Awards	
• Research Assistant Scholarship at Hallym University	2017-2020
• Teaching Assistant Scholarship at Hallym University	2012-2013
• Outstanding Graduates at Hallym University	2012
• Outstanding Performance Scholarship at Hallym University	2010, 2011
Extracurricular Activities	
Gangwon Foreign Student Ambassador	2019-present
• Member of Chuncheon Kendo Club	2019–present
• Member of Weifang Preventive Medicine Association - Medical Statistics Division	2018-present

International Publications

- [1] **Z.-S. Wang**, J. Lee, C. G. Song, and S.-J. Kim, "Data-driven point sampling with blue-noise properties for triangular meshes", in *Proceedings of the 2020 3rd International Conference on Computer Science and Software Engineering*, ser. CSSE 2020, Beijing, China, 2020, 77–82. [Best Presenter].
- [2] **Z.-S. Wang**, J. Lee, C. G. Song, and S.-J. Kim, "Efficient chaotic imperialist competitive algorithm with dropout strategy for global optimization", *Symmetry*, vol. 12, no. 4, p. 635, 2020.
- [3] **Z.-S. Wang**, S.-W. Lee, and C. G. Song, "Unrealistic map based navigation system for pedestrian", *Life Science Journal*, vol. 11, no. 7s, 2014.
- [4] **Z.-S. Wang**, J.-H. Choi, Y. Ko, and C. G. Song, "Using a smart phone as input device for pc", in *Proceedings of the 2012 international Workshop on Advanced Image Technology*, ser. IWAIT 2012, Ho Chi Minh City, Vietnam, 2012, pp. 824–828.

Domestic Publications (South Korea)

- [1] Z.-S Wang, J. Lee, C. G. Song and S.-J. Kim, "Comparison of Exploration Ability for Global Path Planning between Particle Swarm Optimization and Deep Q-network", in *Proceedings of KIISE and KBS Joint Symposium 2018*. Yonsei University, Gangwon, Korea, Jun 1, 2018. pp. 114-117. [Best Paper Award]
- [2] Z.-S. Wang, J.-H. Kim, J.-I. Park and C. G. Song, "Implementation of Unity3D and Kinect Based Gesture Recognition Application", in *HCI 2013 Proceeding*. High One Resort, Gangwon, Korea, Jan 30-Feb 1, 2013. pp. 659-662.
- [3] **Z.-S. Wang**, J.-H. Kim, S.-J. Kim and C. G. Song, "Archery Application in Virtual Environment", in *Korea Computer Congress* 2013. Sangji University, Wonju, Korea, Jun 15, 2013. pp. 182-184.
- [4] J.-H. Kim, J.-I. Park, **Z.-S. Wang**, S.-J. Kim and C. G. Song, "Image Segmentation System Using 3D Histogram", in *Proceedings of the 39th KIISE Fall Conference(C)*. Chungnam National University, Daejeon Metropolitan City, Korea, Nov 23-24, 2012. pp. 194-196.
- [5] J.-I. Park, J.-H. Kim, **Z.-S. Wang**, S.-J. Kim and C. G. Song, "An Alternative Proposal Open Weather Information by Using JSON API", in *Proceedings of the 39th KIISE Fall Conference(D)*. Chungnam National University, Daejeon Metropolitan City, Korea, Nov 23-24, 2012. pp. 102-104.