Curriculum Vitae

Name in Full : Lee, Giyoung (이기영)

Date of Birth : June 26, 1985

Gender : Female

Nationality : Republic of Korea

Present Address : School of Electronics Engineering,
Kyungpook National University
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Education

2013 – 2017	Electronics Engineering, Kyungpook National University (Ph.D), Major in Signal Processing (Title of Thesis : Multiple Intelligence Diagnostic System Using Multimodal Bio-Signals and Deep Learning Method)
2011 – 2013	Electrical Engineering and Computer Science, Kyungpook National University (MS), Major in Signal Processing (Title of Thesis : Moving Vehicle Tracker using Trajectory Information based on Manifold Learning)
2004 – 2008	Electrical Engineering and Computer Science, Kyungpook National University (BS)

Employment

2007 – 2010	PGM R&D Lab, LIG Nex1 (Research Engineer)

Publications

International Journals

1. **Giyoung Lee**, Rammohan Mallipeddi, Minho Lee: Trajectory-based Vehicle Tracking at Low Frame Rates. *Expert Systems with Applications*, vol. 80, pp. 46-57, 2017, SCIE, IF 3.928
2. Jun-Su Kang, Amitash Ojha, **Giyoung Lee**, Minho Lee: Difference in brain activation patterns of individuals with high and low intelligence in linguistic and visuo-spatial tasks: An EEG study. *Intelligence*, vol. 61, pp. 47-55, 2017, SSCI, IF 2.982
3. **Giyoung Lee**, Amitash Ojha, Jun-Su Kang, Minho Lee: Modulation of resource allocation by intelligent individuals in linguistic, mathematical and visuo-spatial tasks. *International Journal of Psychophysiology*, vol. 97(1), pp. 14-22, 2015, SSCI, IF 2.582
4. **Giyoung Lee**, Rammohan Mallipeddi, Gil-Jin Jang, Minho Lee: A Genetic Algorithm-Based Moving Object Detection for Real-time Traffic Surveillance. *IEEE Signal Processing Letters*, vol. 22(10), pp. 1619-1622, 2015, SCIE, IF 2.528
5. **Giyoung Lee**, Mingu Kwon, Swathi Kavuri Sri, Minho Lee: Action-perception cycle learning for incremental emotion recognition in a movie clip using 3D fuzzy GIST based on visual and EEG signals. *Integrated Computer-Aided Engineering*, vol. 21(3), pp. 295-310, 2014, SCIE, IF 5.264
6. **Giyoung Lee**, Mingu Kwon, Swathi Kavuri Sri, Minho Lee: Emotion recognition based on 3D fuzzy visual and EEG features in movie clips. *Neurocomputing*, vol. 144, pp. 560-568, 2014, SCIE, IF 3.317

International Conferences

1. **Giyoung Lee**, Amitash Ojha, Minho Lee: Classification of High and Low Intelligent Individuals Using Pupil and Eye Blink. *Lecture Notes in Computer Science*, vol. 9489, pp. 459-466, 2015
2. Yongsik Jin, Mallipeddi Rammohan, **Giyoung Lee**, Minho Lee: Autonomous Depth Perception of Humanoid Robot Using Binocular Vision System Through Sensorimotor Interaction with Environment. *Lecture Notes in Computer Science*, vol. 9490, pp. 554-561, 2015
3. **Giyoung Lee**, Amitash Ojha, Minho Lee: Concentration Monitoring for Intelligent Tutoring System Based on Pupil and Eye-blink. *Proceedings of the 3rd International Conference on Human-Agent Interaction (HAI)*, 2015
4. **Giyoung Lee**, Jun-Su Kang, Amitash Ojha, Minho Lee: Recognition of Cognitive State of Learners Using Brain and Bio Signals for Intelligent Tutoring System. *10th AEARU Workshop on Computer Science and Web Technology (AEARU-CSWT)*, 2015
5. **Giyoung Lee**, Jun-Su Kang, Amitash Ojha, Minho Lee: How do we understand Multiple-Intelligence based on brain and bio signals?. *14th Japan-China-Korea Joint Workshop on Neurobiology and Neuroinformatics (NBNI)*, 2014
6. **Giyoung Lee**, Rammohan Mallipeddi, Minho Lee: Tracking Multiple Moving Vehicles in Low Frame Rate Videos Based on Trajectory Information. *IEEE International Conference on System, Man, and Cybernetics (SMC)*, pp. 3615-3620, 2013
7. **Giyoung Lee**, Rammohan Mallipeddi, Minho Lee: Identification of Moving Vehicle Trajectory Using Manifold Learning. *Lecture Notes in Computer Science*, vol. 7666(4), pp. 188-195, 2012
8. Wono Lee, **Giyoung Lee**, Sang-Woo Ban, Ilkyun Jung, Minho Lee: Intelligent Video Surveillance System Using Dynamic Saliency Map and Boosted Gaussian Mixture Model. *Lecture Notes in Computer Science*, vol. 7064(3), pp. 557-564, 2011

Domestic Conferences

1. **Giyoung Lee**, Minho Lee: Classification of High and Low Intelligent Individuals Using Bio-signals and Deep Learning Methods. Brain and Artificial Intelligence Summer Workshop 2017
2. **Giyoung Lee**, Jun-Su Kang, Minho Lee: Feature Analysis of Brain and Bio-signals of Intelligent Individuals in Learning and Problem solving Tasks. Brain and Artificial Intelligence Symposium 2017
3. **Giyoung Lee**, Amitash Ojha, Minho Lee: Analysis for different bio-response according to multiple intelligences. The Korean Society for Cognitive Science Annual Spring Conference 2016
4. **Giyoung Lee**, Minho Lee: Heart Rate Variability Analysis for Assessing Multiple Intelligences. Brain and Artificial Intelligence Symposium 2016
5. **Giyoung Lee**, Amitash Ojha, Minho Lee: Classification of Strong and Weak Intelligence of Multiple Intelligence Using Bio-Signals. Brain and Artificial Intelligence Symposium 2015
6. **Giyoung Lee**, Amitash Ojha, Minho Lee: Feature Analysis of Pupillary Response for Assessing Multiple Intelligences. Brain and Artificial Intelligence Symposium 2014
7. Jun-Su Kang, **Giyoung Lee**, Sook-hee Ryue, Cheol-Su Kim, Minho Lee: Children's Multiple Intelligence Identification Model Using EEG signal analysis. The Institute of Electronics and Information Engineers Annual Conference 2013
8. **Giyoung Lee**, Minho Lee: Trajectory Identification and Tracking of Moving Object based on Robust Kernel Isomap. Brain and Artificial Intelligence Symposium 2013
9. **Giyoung Lee**, Minho Lee: Performance Improvement for Identification of Moving Vehicle Trajectory using Robust Kernel Isomap. The Institute of Electronics and Information Engineers Annual Conference 2012
10. **Giyoung Lee**, Minho Lee: Identification of Moving Vehicle Trajectory Using Robust Kernel ISOMap. Korea Intelligent Transport Systems Annual Conference 2012

Awards

2017.02 **Best Poster Paper Award (GOLD Prize)** – Feature Analysis of Brain and Bio-signals of Intelligent Individuals in Learning and Problem solving Tasks, Brain Engineering Society of Korea

2016.07 **KNU-Qualcomm Innovation Awards 2016** – Analysis of Different Cognitive Processing between Learning and Problem Solving with Intelligent Individuals based on Pupil Dilation and Eye Blink, KNU Qualcomm Innovation Awards Committee

2016.02 **Best Poster Paper Award** – Heart Rate Variability Analysis for Assessing Multiple Intelligences, Brain Engineering Society of Korea

2015.02 **Best Poster Award** – Recognition of Cognitive State of Learners Using Brain and Bio Signals for Intelligent Tutoring System, The Association of East Asian Research Universities

2013.10 **공학융합연구지원 지역발표대회 우수상** – 뇌파를 이용한 영재 여부 판단, 한국여성과학기술인지원센터 대경강원권역사업단

2012.04 **Best Paper Award** – Identification of Moving Vehicle Trajectory Using Robust Kernel ISOMap, Korea Intelligent Transport Systems

Patents

1. 이민호, **이기영**, 김범휘: 어플리케이션 패키지 기반의 맞춤형 서비스 제공이 가능한 스마트 홈 시스템과 이를 이용한 맞춤형 서비스 제공방법 및 이 방법을 수행하기 위한 기록매체. 10-1637077-00-00, 2016.06.30
2. 이민호, 장영민, 김범휘, **이기영**: 서버 장치, 원격 제어 장치 및 그 장치의 정보 제공 방법. 10-1441914-00-00, 2014.09.12

Others

Computer Skills: C/C++, Python, Tensorflow, MFC, OpenCV, MATLAB, R, SPSS

English Skills: TOEIC 785

As of July, 2017