

# Curriculum Vitae

## 1. **Personal Information**

Name: Jun-Su Kang

Date of birth: November 2, 1986

Nationality: South Korea

Office address: School of Electronics Engineering, Kyungpook National University,  
1370, Sankyuk-dong, Buk-Gu, Daegu, 702-701, South Korea

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Army service: Finished. (2006.05-2008.07)

## 2. **Education:**

3/2014 - : Ph.D. in Electronics Eng., Kyungpook National University

3/2012 - 2/2014: M.S. in Electronics Eng., Kyungpook National University

3/2005 - 2/2012: B.S. in Electronics Eng., Kyungpook National University

## 3. **Title of Thesis for Master Degree:**

EEG Based Coherence Analysis for Identifying Intra Individual Differences in Language, Logic and Spatial Study

## 4. **Research Interests**

Brain-Computer Interface, Human-Computer Interaction, Pattern Analysis, Machine Learning, Biological inspired system

## 5. **Internship**

2016.07.05. – 2016.08.26. : Short-term internship in NAIST (Prof. K. Ikeda)  
(Research topic: Interaction between owner and dog)

## **Publications of J.S. Kang**

### **International Journal:**

1. **J.S. Kang**, Amitash Ojha, M. Lee, “An integrated audio-visual emotion understanding system based on cognitive model of emotion processing”, *Integrated Computer-Aided Engineering*. (*submitted*)
2. **J.S. Kang**, Amitash Ojha, G. Lee, M. Lee, “Difference in brain activation patterns of individuals with high and low intelligence in language and visuo-spatial tasks: An EEG coherence study”, *Intelligence*. (*revision*)
3. **J.S. Kang**, U. Park, V. Gonuguntla, K.C. Velunolu, M. Lee, “Human implicit intent recognition based on the phase synchrony of EEG signals”, *Pattern Recognition Letters*, Vol. 66, p. 144-152, 2015.11.
4. G. Lee, Amitash Ojha, **J.S. Kang**, M. Lee, “Modulation of Resource Allocation by Intelligent Individuals in Linguistic, Mathematical and Visuo-spatial Tasks”, *International Journal of Psychophysiology*, Vol. 97, No. 1, p. 14-22, 2015.07.

### **Domestic Journal:**

1. **J.S. Kang**, G. Jang, M. Lee, “뇌파 신호 기반 스트레스 상태 분류”, 한국인터넷 방송통신학회 논문지(The Institute of Internet, Broadcasting and Communication, IIBC), 2016.06.

### **International Conference:**

1. **J.S. Kang**, Amitash Ojha, M. Lee, “Concentration monitoring with high accuracy but low cost EEG device”, International Conference on Neural Information Processing (ICONIP), Turkey, November 9-12, 2015.
2. **J.S. Kang**, Amitash Ojha, M. Lee, “Development of intelligent learning tool for improving foreign language skills based on EEG and Eye tracker”, Proceedings of the 3<sup>rd</sup> International Conference on Human-Agent Interaction, South Korea, October 21-24, 2015.
3. G. Lee, **J.S. Kang**, Amitash Ojha, M. Lee, “Recognition of Cognitive State of Learners Using Brain and Bio Signals for Intelligent Tutoring System”, AEARU, Japan, February 25-27, 2015.
4. **J.S. Kang**, Amitash Ojha, M. Lee, “Characteristics of EEG signals during tough and easy linguistic problem solving”, International Winter Conference on Brain-Computer Interface (BCI), South Korea, January 12-14, 2015.
5. G. Lee, **J.S. Kang**, Amitash Ojha, M. Lee, “How do we understand Multiple-Intelligence based on Brain and Bio signals?”, NBNI, Japan, December 18-20, 2014.

6. **J.S. Kang**, S. Kavuri, M. Lee, “Adaptive EEG Noise Filtering for Coherence Analysis”, International Winter Workshop on Brain-Computer Interface (BCI), South Korea, February 17-19, 2014.
7. **J.S. Kang**, J. Kim, M. Lee, “Advanced Driver Assistant System Based on Monocular Camera”, International Conference on Consumer Electronics (ICCE), USA, January 10-13, 2014.
8. H. Park, **J.S. Kang**, M. Lee, “Analysis of Cognitive Load for Language Processing Based on Brain Activities”, International Conference on Neural Information Processing (ICONIP), South Korea, November 3-7, 2013.
9. **J.S. Kang**, S. Kavuri, M. Lee, “EEG Based Coherence Analysis for Identifying Inter Individual Differences in Language and Logic Study”, International Conference on Neural Information Processing (ICONIP), South Korea, November 3-7, 2013.
10. M. Kwon, **J.S. Kang**, M. Lee, “Emotion classification in Movie clips based on 3D fuzzy GIST and EEG signal Analysis”, International Winter Workshop on Brain-Computer Interface (BCI), South Korea, February 18-20, 2013.

#### **Domestic Conference:**

1. **J.S. Kang**, T. Kubo, K. Ikeda, M. Lee, “BPM(Beat per minute) 상관관계 분석으로 본 개와 주인 간의 상호작용”, Nov 26, 2016.
2. G. Lee, Amitash Ojha, **J.S. Kang**, M. Lee, “다중지능에 따른 생체 반응 차이 분석”, 한국인지과학회 연차학술대회, May 28, 2016.
3. **J.S. Kang**, Amitash Ojha, M. Lee, “EEG inverse mapping analysis while solving language and visuo-spatial problems”, 뇌와 인공지능 심포지엄, 대한민국, February 17-19, 2016.
4. **J.S. Kang**, Amitash Ojha, M. Lee, “Characteristics of EEG signals during language problem solving”, The 4<sup>th</sup> Symposium on Brain-Machine Interface, October 31, 2014.
5. **J.S. Kang**, M. Lee, “Cognitive load estimation based on EEG coherence analysis”, The 3<sup>rd</sup> Symposium on Brain-Machine Interface, February 25, 2014.
6. **J.S. Kang**, M. Lee, “EEG Coherence analysis for solving problems: Language and Spatial area”, 뇌와 인공지능 심포지엄, 대한민국, February 19-20, 2014.
7. **J.S. Kang**, G. Lee, S.H. Ryue, C.S. Kim, M. Lee, “EEG 생체 신호를 이용한 유아의 다중지능 검사 검증”, 대한전자공학회 하계종합학술대회, 대한민국, July 3-5, 2013.
8. **J.S. Kang**, M. Lee, “Robust Vehicle Detection Method Based on Monocular Vision

Under Illumination Change”, 뇌와 인공지능 심포지엄, 대한민국, February 20-21, 2013.