

## CURRICULUM VITAE

**Name:** Jeong-Goo Kim

**Sex:** Male

**Date of Birth:** Nov. 3<sup>rd</sup>, 1964

**Marital Status:** Married

**Place of Birth:** Kyungsan city, Kyungpook Province, South Korea

**Mailing Address:** [School of Computer Science and Engineering, Pusan National University](#),  
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**Current Status:** Full Professor, School of Computer Science and Engineering, Pusan National University

### Education:

- 1998 B.S. [Dept. of Electronics, Kyungpook National University](#)
- 1991 M.S. Dept. of Electronics, Kyungpook National University
- 1995 Ph.D. Dept. of Electronics, Kyungpook National University

### Career summary:

#### Miryang National University (Combined in Pusan National University at Mar. 2006)

- 1995.3. – 2006.2. Associate Professor, School of Information and Communication Eng.
- 1998.2. – 1999.2. Director, Institute of Advanced Technology in Information and Communications
- 1999.3. – 2001.2, Visiting Professor, CMRR, UCSD, CA, USA
- 2002.3. – 2004.2. Director, School of Information and Communication Eng.
- 2005.2. – 2006.2. Director, Library and Computer Center

#### Pusan National University

- 2006.2. – 2007.9. Associate Professor, School of Computer Science and Engineering
- 2007.10. – present Full Professor, School of Computer Science and Engineering

### Doctoral Dissertation:

*A New Class of Minimum-bandwidth Binary Error Control Line Codes Based on an Extended Hamming code*, The Graduate School, Kyungpook National University, Thesis for Degree of Doctor of Engineering, June 1995.

### Thesis for Degree of Master:

*The Effect of Modulation Index on Spectrum and BER of GMSK with Differential Detection*, The Graduate School Kyungpook National University, Thesis for Degree of Master of Engineering, Dec. 1990.



### Project Experience:

- 2007 Electronics and Telecommunications Research Institute([ETRI](#)), Interleaver Generator of Turbo Code for Advanced T-DMB
- 2006 ETRI, High Performance Error Control Code for a Hierarchical Modulation in Advanced T-DMB
- 2005 ETRI, Efficient Error Control Technology for DVB-H

### Selected Publications:

#### Books

- J.G. Kim, *Digital Telecommunication Technology for Home Networking*. Kyungnam Technopark, 2005.
- J.G. Kim, *Experiments of Digital Telecommunication*, Miryang National University Press, 1997.

#### International Papers

- J.G. Kim, H.M. Tullberg, and P.H. Siegel, "A Novel Scheme for Parallel Concatenated Trellis Coded Modulation with Symbol Interleaving," *IEICE Trans. Commun.*, vol. E84-B, No.11 Appendix, pp. 485-488, Sep. 2001.
- S.G. Kang, J.G. Kim, and E.K. Joo, "A Novel Subblock Partition Scheme for Partial Transmit Sequence OFDM," *IEEE Trans. Broadcasting*, vol. 45, no. 3, pp.333-338, Sep. 1999.
- S.I. Lee, J.G. Kim, and E.K. Joo, "A new class of DC-free error correcting codes based on convolution codes," *Electron. Lett.*, vol. 30, no. 19, pp. 1588-1590, Sep. 1994.
- S.I. Lee, J.G. Kim, and E.K. Joo, "DC-free error-correcting convolution codes," *Electron. Lett.*, vol. 30, no. 21, p. 1736, Oct. 1994.

#### Domestic Papers

- W.T. Kim, J.G. Kim, and E.K. Joo, "Low Density Parity Check Codes for Hybrid ARQ System," *J. KICS*, vol. 32. no. 4, pp. 370-378, Apr. 2007.
- W.T. Kim, J.G. Kim, and E.K. Joo, "CRC-Turbo Concatenated Code for Hybrid ARQ System," *J. KICS*, vol. 32. no. 3, pp. 195-204, Mar. 2007.
- H.T. Lim, S.H. Lee, J.G. Kim, and E.K. Joo, " Error performance Analysis of Concatenated Codes in Advanced T-DMB Systems with Hierarchical Modulation," *J. IEEK*, vol. 44-TC, no. 1, Jan. 2007.
- J.G. Kim, Performance of Iterative Multiuser Detector and Turbo Decoder in WCDMA System," *Journal of Information Technology*, vol. 11, no. 4, pp. 40-46, Dec. 2006.
- J.G. Kim, "Whitening Method for Performance Improvement of the Matched Filter in the No-white Noise Environment," *Journal of Information Technology*, vol. 11, no. 3, pp. 15-19, May. 2006.
- S.G. Kang and J.G. Kim, "A Systematic Code Design for Reduction of the PAPR in OFDM," *Journal of Broadcast Engineering*, vol. 11, no. 3, pp. 326-335, Sep. 2006.
- D.J. Yoon, J.G. Kim, and D.S. Han, "Performance Analysis of a Galois-Field Frequency Hopping OFDMA System with RS Code," *Journal of Advanced Technology in Information & Communication*, vol. 6, no. 1, pp. 61-68, Jan. 2004.
- J.T. Kim, S.H. Moon, D.S. Han, M.J. Cho, and J.G. Kim, "Fast DOA Estimation Algorithm using Pseudo Covariance Matrix," *IEEK*, vol. TC-40, no. 1, pp.15-23, Jan. 2003.

- W.H. Lee, S.H. Lee, J.G. Kim, and E.K. Joo, "Bit Probability Transition Characteristics Of LDPC Code," *Journal of Advanced Technology in Information & Communication*, vol. 5, no. 1, pp. 125-134, Dec. 2002.
- S.Y. Na, W.T. Kim, J.G. Kim, and E.K. Joo, " Effect of Undetected Errors in H-ARQ Scheme with CRC Code and Turbo code," *Journal of Advanced Technology in Information & Communication*, vol. 5, no. 1, pp. 115-124, Dec. 2002.
- J.G. Kim, "Runlength Limited Codes Based on Convolutional Codes," *J. KICS*, vol. 26, no. 8A, pp. 1437-1440, Aug. 2001.
- S.H. Moon and J.G. Kim, "Coding Performance Analysis of IS-95 Reverse Traffic Channel with Smart Antena," *Journal of Advanced Technology in Information & Communication*, vol. 4, no. 1, pp. 31-40, Dec. 2001.

### International Conference papers

- C.H. Han, J.H. Lee, J.G. Kim, D.S. Lee, and K.H. Park, " Adaptive Noise Reduction According to Exposure Time and Amplifying Gain for Mobile Phone Camera," *Proc. APIS 2008*, Auckland, New Zealand, pp. 251-254, Jan. 2008.
- S.H. Lee, J.G. Kim, and E. J. Joo, " Performance of Serially Concatnated LDPC Codes," *Proc. SPECTS 2007*, San Diego, CA, USA, pp. 233-239, Jul. 2007.
- S.S. Jang, J.G. Kim, W.Y. Lee, and E.J. Lee, "An Enhancement of HMIPv6 for Multimedia," *Proc. MITA 2006*, Dairen, China, pp. 556-560, May 2006.
- W.T. Kim, S.H. Kang, J.G. Kim, and E.K. Joo, "Classification and Distribution of Extrinsic Information in Turbo Decoding for Future Wireless Communications," *Proc. WOCN 2005*, July 2005.
- C.H. Lim, D. S. Han, H.S. Oh, J.G. Kim, "Robust LS Channel Estimation with Phase Rotation for OFDM" *Proc. IASTED International Multi-Conference*, Banff, Canada, July, 2005.
- S.G. Kang, H.S. Lee, and J.G. Kim, "A Block Code for Minimization of PAPR of OFDM Signals," *Proc. IASTED CSN 2005*, Alicant, Spain, pp. 164-168, Sep. 2005.
- S.I. Baek, W.S. Kim, J.G. Kim, and K.H. Park, Inspection of Defect on LCD Panel Using Polynomial Approximation, *Proc. IEEE Tencon 2004*, Chiang Mai, Thailand, Nov. 2004.
- J.Y. Kim, S.H. Moon, D.S. Han, H.S. Oh, J.G. Kim, "Spatial diversity technique for improvement of DTV reception performance," *Internal Conference on Computer, Communications, and Control Technologies(CCCT'03)*, Orlando, USA, vo.2, pp.11-16, Aug. 2003.
- W.T. Kim, S.J. Bae, E.K. Joo, and J.G. Kim, "Performance of STBC with Turbo Code in HARQ Scheme for Mobile Communication Systems", *Proc. ICT2003*, Tahiti, French Polynesia, pp. 85-89, Feb. 2003.

### Activities:

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|---|------------------|
| □ IEEE  | Member           |
| □ Korea Multimedia Society(KMMS)                        | Editor           |
| □ Korea Information and Communication Society( KICS)    | Life Time Member |
| □ The Institute of Electronics Engineers of Korea(IEEK) | Life Time Member |
| □ The Korean Society of Broadcast Engineers             | Life Time Member |
| □ Korea Society of Industrial Information Systems       | Life Time Member |