

## Books

1. Kwonhue Choi, Problem-Based Learning in Communication Systems Using MATLAB and Simulink, Wiley, USA. Feb. 2016, ISBN 978-1-119-06034-5.
2. Kwonhue Choi, Communication Systems: Matlab and Simulink project-based Learning, Hongrung Publishing Company, Korea. Mar. 2017, ISBN 979-11-5600-517-9.

## International Journal Papers

1. D. Na and K. Choi, "DFT Spreading-based Low PAPR FBMC with Embedded Side Information," *IEEE Transactions on Communications*, Early Access.
2. K. Choi, "Inter-User Frequency Offset Resilient Uplink FBMC by DFT Spreading and Cyclic Shift," *IEEE Wireless Communications Letters*, vol. 8, no. 3, pp. 925-928, June. 2019.
3. K. Choi, "Alamouti Coding for DFT Spreading-Based Low PAPR FBMC," *IEEE Transactions on Wireless Communications*, vol. 18, no. 2, pp. 926-941, Feb. 2019.
4. D. Na and K. Choi, "Low PAPR FBMC," *IEEE Transactions on Wireless Communications*, vol. 17, no. 1, pp. 182-193, Jan. 2018.  
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6. D. Na and K. Choi, "Generalization of the phase shift condition in "Intrinsic ICI-free Alamouti-coded FBMC"," *IEEE Communications Letters*, vol. 21, no. 8, pp. 1747-1750, Aug. 2017.
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11. K. Choi, "Comments on "Energy-Efficient Uplink Multiuser MIMO"," *IEEE Transactions on Wireless Communications*, vol. 15, no. 3, pp. 2435-2437, Mar. 2016.
12. B. Kim and K. Choi, "FADAC-OFDM: Frequency Asynchronous Distributed Alamouti-Coded OFDM," *IEEE Transactions on Vehicular Technology*, vol. 64, no. 2, pp. 466-480, Feb. 2015.
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14. K. Choi, "Semi-analytic selection of sub-carrier allocation schemes in uplink orthogonal frequency division multiple access," *IET communications*, vol. 7, no. 14, pp. 1532-1539, 2013.
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23. K. Choi and H. Liu, "Quasi-synchronous CDMA using properly scrambled Walsh codes as user-spreading sequences," *IEEE Transactions on Vehicular Technology*, vol. 59, no. 7, pp. 3609-3617, Sep. 2010.

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#### **International Conference Papers**

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2. J. Lee, D. Na and K. Choi, "Comparison of Multi-user Timing offset Resilient Uplink OFDMA Schemes with Optimal Power Control," *2015 12th International Conference on Information Technology - New Generations*, 2015.
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5. B. Kim and K. Choi, "Uplink OFDMA schemes for loose multi-user synchronization," International Convergence on ICT Convergence (*ICTC*) 2011.
6. S. Amini and K. Choi, "Effect of feedback delay and channel gain difference on distributed beamforming," International Convergence on ICT Convergence (*ICTC*) 2011.
7. B. Kim and K. Choi, "Timing Offsets-Resilient OFDMA for Asynchronous Wireless Ad Hoc Networks," *ICCCN* 2011. (AR 29.6)
8. W. Liu, K. Choi and H. Liu, "Computationally efficient lattice reduction for MIMO-OFDM systems," *Wireless and Mobile Computing, Networking and Communications (WiMob)*, 2010.
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#### **International Patents (Issued)**

1. US Patent 9503172, Method for dual mode beamforming and apparatus for the same, Nov. 22, 2016
2. US Patent 9154340, Method of cancelling inter-subcarrier interference in distributed antenna system, Oct. 6, 2015
3. US Patent 5945117, Apparatus for eye contact video call, Mar. 1, 2016
4. US Patent 9137060, Method for cancelling inter-subcarrier interference in distributed antenna system and apparatus for performing the same, Sep. 15, 2015
5. US Patent 9124478, Method for cancelling inter-subcarrier interference and apparatus for the same, Sep. 1, 2015.
6. US Patent 7443904, Scrambling system and method for peak power reduction in MC-CDMA, and recording medium for storing corresponding program, Oct. 28, 2008.
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8. US Patent 7352689, Method for optimizing factor of sub-block signal in partial transmit sequence orthogonal frequency division multiplexing system Apr.1, 2008.
9. US Patent 7254117, Closed-loop power control apparatus for mobile satellite communication system and method thereof, Aug.7, 2007.
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11. US Patent 6310924, Digital Modulator, Oct 30, 2001.