

Jong-Seon No

Dept. of Electrical and Computer Engineering

Seoul National University, Seoul, 08826, Korea

Ph) +82-10-5241-3450, Fax) + 82-2-873-1772

Email) jsno@snu.ac.kr, Web) <http://ccl.snu.ac.kr>

EDUCATION

- **Ph.D.** in Department of Electrical Engineering (September 1984 ~ February 1988)
University of Southern California, Los Angeles, CA, USA
Thesis Title: A New Family of Binary Pseudorandom Sequences Having Optimal
Periodic Correlation Properties and Large Linear Span
- **M.S.** in Department of Electronics Engineering (March 1982 ~ February 1984)
Seoul National University, Seoul Korea
- **B.S.** in Department of Electronics Engineering (March 1977 ~ February 1981)
Seoul National University, Seoul Korea

RESEARCH INTEREST

Cryptography, Sequences, Error Correcting Codes, Interference Management,
OFDM, Compressed Sensing, and Difference Sets

ASSOCIATION MEMBERSHIP

IEEE Information Theory Society	Fellow
IEEE Communications Society	Fellow
IEEE Broadcasting Society	Fellow
IEICE (Japan)	Member
National Academic of Engineering Korea (NAEK),	Senior Member
Korea Information and Communication Society (KICS),	Life Member

HONORS and AWARDS

- Elevated to IEEE Fellow, 2012 (Information Theory Society)
- National Academic of Engineering Korea (NAEK), Senior Member, 2015
- IEEE Information Theory Society Chapter of the Year Award, 2007

- Haedong Information and Communication Academic Award, KICS 2008, which is the most prestigious academic award in Korea
- Founding Chair of Seoul Chapter, IEEE Information Theory Society, 1996~2008
- Technical Division Award, Hughes Aircraft Company, Md, USA, September 1988
- Minister Award, Ministry of Information and Communications, Korea, December 2002
- Vice-Chair, Department of Electrical and Computer Engineering, Seoul National University, June 2008~ May 2010
- Best Paper Award, Joint Conference on Communication and Information (JCCI) 2004, Korea
- Best Paper Award, Joint Conference on Communication and Information (JCCI) 2010, Korea

PROFESSIONAL SERVICE

- Co-Chair, Citizens' Coalition for Scientific Society (CCSS), 2016~2017
- President, Korea Information and Communications Society (KICS), 2015
- Advisory Committee Member, ITU Plenipotentiary 2014, Busan Korea, 2014. 10
- General Co-Chair, International Symposium on Information Theory (ISIT) 2009, Seoul, Korea, IEEE Information Theory Society
- General Co-Chair, International Symposium on Information Theory and Its Applications (ISITA) 2006, Seoul, Korea, IEICE
- Co-Editor-in-Chief, Journal of Communications and Networks (JCN), 2012~2014 (EIC; Prof. H. Vincent Poor)
- President-Elect, Korea Information and Communications Society (KICS), 2014
- Vice-President, Korea Information and Communications Society (KICS), 2011~2012
- International Advisory Committee Member, ISITA 2008, ISITA 2010
- General Chair, Sequence and Their Applications (SETA) 2004, Seoul, Korea
- Division Editor, Journal of Communications and Networks (JCN), 2007~2009 (EIC; Prof. Ezio Biglieri)
- General Chair, Joint Conference on Communication and Information (JCCI) 2009, Korea

INVITED TALK

- "Low Correlation Zone Sequences," Sequences and Their Applications (SETA 2010), Telecom ParisTech, September 12~17, 2010.
- "Peak to Average Power Ratio Reduction for OFDM Systems with Low Complexity," International Conference on Signal Processing and Communications (SPCOM), Indian Institute of Science, Bangalore, India, July 18~21, 2010.

WORK EXPERIENCE

- Seoul National University, Dept. of Electrical and Computer Engineering, Seoul Korea, Professor, August 1999 ~ Present
- Hughes Network Systems, Md, USA, Senior MTS, February 1988 ~ July 1990
- KonKuk University, Dept. of Electronic Engineering, Seoul, Korea, Associate Professor, September 1990 ~ July 1999
- Director, Next Generation Wireless Communication Research Center, Seoul National University, 2000~2007
- Director, Institute of New Media Communications, Seoul National University, February 2013~ January 2015

PH.D. STUDENTS

- | | |
|------------------------------|--|
| 1) Kwan-Ok Kim (1998) | Professor, Daelim University, Korea |
| 2) Hoi-Dong Choi (2000) | President, Start-up Company, Korea |
| 3) Sang-Hyo Kim (2004) | Professor, Sungkyunkwan University, Korea |
| 4) Sunghwan Kim (2005) | Professor, University of Ulsan, Korea, |
| 5) Ji-Woong Jang (2006) | Professor, Ulsan College, Korea |
| 6) Dae-Woon Lim (2006) | Professor, Dongguk University, Seoul Korea |
| 7) Young-Sik Kim (2007) | Professor, Chosun University, Korea |
| 8) Xianglan Jin (2008) | Professor, Busan University, Seoul Korea |
| 9) Min-Ho Jang (2009) | Professor, Ulsan College, Korea |
| 10) Jae-Dong Yang (2009) | Researcher, Samsung Electronics, Korea |
| 11) Jung-Soo Chung (2010) | Researcher, Samsung Electronics, Korea |
| 12) Seok-Joong Heo (2010) | Researcher, Samsung Electronics, Korea |
| 13) Beomkyu Shin (2010) | Researcher, Samsung Electronics, Korea |
| 14) Kyoung-Young Song (2010) | Professor, Ulsan College, Korea |
| 15) Hyun-Bae Jeon (2011) | Researcher, Samsung Electronics, Korea |
| 16) Sung-Tai Choi (2012) | Researcher, Samsung Electronics, Korea |
| 17) Hyun-Seung Joo (2012) | Researcher, Samsung Electronics, Korea |
| 18) Hosung Park (2015) | Professor, Chonnam University, Korea |
| 19) Seokbeom Hong (2013) | Researcher, Samsung Electronics, Korea |
| 20) Young-Jeon Cho (2014) | Korean Army |
| 21) Kee-Hoon Kim (2017) | Professor, Soon Chun Hyang University, Korea |
| 22) Jaehong Kim (2015) | Researcher, Samsung Electronics, Korea |
| 23) Ji-Youp Kim (2015) | Researcher, Samsung Electronics, Korea |
| 24) Jun-Young Woo (2015) | Researcher, Samsung Electronics, Korea |

- 25) Chang-Min Cho (2017) Researcher, Samsung Electronics, Korea
 26) Bo-Hwan Jun (2017) Researcher, Samsung Electronics, Korea

PUBLICATIONS

(INTERNATIONAL JOURNALS (SCI and SCIE): Total 98 papers)

<IEEE Transactions on Information Theory: 27 papers>

- 1) **Jong-Seon No** and P.V. Kumar, "A new family of binary pseudorandom sequences having optimal periodic correlation properties and large linear span," *IEEE Transactions on Information Theory*, vol. IT-35, no. 2, pp. 371-379, March 1989.
- 2) **Jong-Seon No**, "Generalization of GMW and No sequences," *IEEE Transactions on Information Theory*, vol. IT-42, no. 1, pp. 260-262, January 1996.
- 3) **Jong-Seon No**, H.K. Lee, H. Chung, H.Y. Song, and K. Yang, "Trace representation of Legendre sequences of Mersenne prime period," *IEEE Transactions on Information Theory*, vol. IT-42, no. 6, pp. 2254-2255, November 1996.
- 4) **Jong-Seon No**, H. Chung, K. Yang, and H.Y. Song, "New construction for families of binary sequences with optimal correlation properties," *IEEE Transactions on Information Theory*, vol. IT-43, no. 5, pp. 1596-1602, September 1997.
- 5) **Jong-Seon No**, S.W. Golomb, G. Gong, H.K. Lee, and P. Gaal, "Binary pseudorandom sequences of period $2^n - 1$ with ideal autocorrelation," *IEEE Transactions on Information Theory*, vol. IT-44, no. 2, pp. 814-817, March 1998.
- 6) **Jong-Seon No**, H. Chung, and M. Yun, "Binary pseudorandom sequences of period $2^m - 1$ with ideal autocorrelation generated by the polynomial $z^d + (z+1)^d$," *IEEE Transactions on Information Theory*, vol. IT-45, no. 6, pp. 2060-2065, September 1999.
- 7) H. Chung and **Jong-Seon No**, "Linear span of extended sequences and cascaded GMW sequences," *IEEE Transactions on Information Theory*, vol. IT-45, no. 6, pp. 2060-2065, September 1999.
- 8) **Jong-Seon No**, H. Chung, H.Y. Song, K. Yang, J.D. Lee, and T. Helleseeth, "New construction for binary sequences of period $p^m - 1$ with optimal autocorrelation using $(z+1)^d + a(z)^d + b$," *IEEE Transactions on Information Theory*, vol. IT-47, no. 4, pp. 1638 -1644, May 2001.
- 9) **Jong-Seon No**, "p-ary unified sequences: p-ary extended d-form sequences with ideal autocorrelation property," *IEEE Transactions on Information Theory*, vol. 48, no. 9, pp. 2540-2546, September 2002.
- 10) T. Helleseeth, S.H. Kim, and **Jong-Seon No**, "Linear complexity over F_p and trace representation of Lempel-Cohn-Eastman sequences," *IEEE Transactions on Information Theory*, vol. 49, no. 6, pp. 1548-1552, June 2003.
- 11) **Jong-Seon No**, G.M. Gil, and D.J. Shin, "Generalized construction of binary bent sequences with optimal correlation property," *IEEE Transactions on Information Theory*, vol. 49, no. 7, pp. 1769-1780, July 2003.

- 12) S.H. Kim and **Jong-Seon No**, "New families of binary sequences with low correlation," *IEEE Transactions on Information Theory*, vol. 49, no. 11, pp. 3059-3065, November 2003.
- 13) J.W. Jang, Y.S. Kim, **Jong-Seon No**, and T. Helleseht, "New family of p-ary sequences with optimal correlation property and large linear span," *IEEE Transactions on Information Theory*, vol. 50, no. 8, pp. 1839-1844, August 2004.
- 14) S.H. Kim, **Jong-Seon No**, H. Chung, and T. Helleseht, "New cyclic relative difference sets constructed from d-homogeneous functions with difference-balanced property," *IEEE Transactions on Information Theory*, vol. 51, no. 3, pp. 1155-1163, March 2005.
- 15) S.H. Kim, J.W. Jang, **Jong-Seon No**, and H. Chung, "New constructions of quaternary low correlation zone sequences," *IEEE Transactions on Information Theory*, vol. 51, no. 4, pp. 1469-1477, April 2005.
- 16) Y.S. Kim, J.S. Chung, **Jong-Seon No**, and H. Chung, "On the autocorrelation distributions of Sidel'nikov sequences," *IEEE Transactions on Information Theory*, vol. 51, no. 9, pp. 3303-3307, September 2005.
- 17) S. Kim, **Jong-Seon No**, H. Chung, and D.J. Shin, "On the girth of Tanner (3,5) quasi-cyclic LDPC codes," *IEEE Transactions on Information Theory*, vol. 52, no. 4, pp. 1739-1744, April 2006.
- 18) Y.S. Kim, J.W. Jang, **Jong-Seon No**, and H. Chung, "New design of low correlation zone sequence sets," *IEEE Transactions on Information Theory*, vol. 52, no. 10, pp. 4607-4616, October 2006.
- 19) J.W. Jang, **Jong-Seon No**, H. Chung, and X. Tang, "New sets of optimal p-ary low correlation zone sequences," *IEEE Transactions on Information Theory*, vol. 53, no. 2, pp. 815-821, February 2007.
- 20) S. Kim, **Jong-Seon No**, H. Chung, and D.J. Shin, "Quasi-cyclic low-density parity-check codes with girth larger than 12," *IEEE Transactions on Information Theory*, vol. 53, no. 8, pp. 2885-2891, August 2007.
- 21) E.Y. Seo, Y.S. Kim, **Jong-Seon No**, and D.J. Shin, "Cross-correlation distribution of p-ary m-sequence of period $p^{4k}-1$ and its decimated sequences by $\{(p^{2k}+1)/2\}^2$," *IEEE Transactions on Information Theory*, vol. 54, no. 7, pp. 3140-3149, July 2008.
- 22) Y.S. Kim, J.S. Chung, **Jong-Seon No**, and H. Chung, "New families of M-ary sequences with low correlation constructed from Sidel'nikov sequences," *IEEE Transactions on Information Theory*, vol. 54, no. 8, pp. 3768-3774, August 2008.
- 23) J.S. Chung, **Jong-Seon No**, and H. Chung, "A construction of a new family of M-ary sequences with low correlation from Sidel'nikov sequences," *IEEE Transactions on Information Theory*, vol. 57, no. 4, pp. 2301-2305, April 2011.
- 24) J.Y. Kim, S.T. Choi, **Jong-Seon No**, and H. Chung, "A new family of p-ary sequences of period $(p^n-1)/2$ with low correlation," *IEEE Transactions on Information Theory*, vol. 57, no. 6, pp. 3825-3830, June 2011.
- 25) S.T. Choi, T.H. Lim, **Jong-Seon No**, and H. Chung, "On the cross-correlation of a p-ary m-sequence of period $p^{2m}-1$ and its decimated sequences by

$(p^{m+1})^2/(2(p+1))$," *IEEE Transactions on Information Theory*, vol. 58, no. 3, pp. 1873-1879, March 2012.

- 26) H. Park, S. Hong, Jong-Seon No, and D.J. Shin, "Design of multiple-edge protographs for QC LDPC codes avoiding short inevitable cycles," *IEEE Transactions on Information Theory*, vol. 59, no. 7, pp. 4598-4614, July 2013.
- 27) S. Hong, H. Park, Jong-Seon No, T. Hellesteth, and Y.S. Kim, "Near-optimal partial Hadamard codebook construction using binary sequences obtained from quadratic residue mapping," *IEEE Transactions on Information Theory*, vol. 60, no. 6, pp. 3698-3705, May 2014.

<IEEE Transactions on Broadcasting: 10 papers>

- 28) D.W. Lim, S.J. Heo, **Jong-Seon No**, and H. Chung, "A new PTS OFDM scheme with low complexity for PAPR reduction," *IEEE Transactions on Broadcasting*, vol. 52, no. 1, pp. 77-82, March 2006.
- 29) S.J. Heo, H.S. Noh, **Jong-Seon No**, and D.J. Shin, "A modified SLM scheme with low complexity for PAPR reduction of OFDM systems," *IEEE Transactions on Broadcasting*, vol. 53, no. 4, pp. 804-808, December 2007.
- 30) D.W. Lim, H.S. Noh, **Jong-Seon No**, and D.J. Shin, "Near optimal PRT set selection algorithm for tone reservation in OFDM systems," *IEEE Transactions on Broadcasting*, vol. 54, no. 3, pp. 454-460, September 2008.
- 31) D.W. Lim, H.S. Noh, H.B. Jeon, **Jong-Seon No**, and D.J. Shin, "Multi-stage TR scheme for PAPR reduction in OFDM signals," *IEEE Transactions on Broadcasting*, vol. 55, no. 2, pp. 300-304, June 2009.
- 32) H.B. Jeon, K.H. Kim, **Jong-Seon No**, and D.J. Shin, "Bit-based SLM schemes for PAPR reduction in QAM modulated OFDM signals," *IEEE Transactions on Broadcasting*, vol. 55, no. 3, pp. 679-685, September 2009.
- 33) H.B. Jeon, **Jong-Seon No**, and D.J. Shin, "A low-complexity SLM scheme using additive mapping sequences for PAPR reduction of OFDM signals," *IEEE Transactions on Broadcasting*, vol. 57, no. 4, pp. 866-875, December, 2011.
- 34) H.B. Jeon, **Jong-Seon No**, and D.J. Shin, "A new PAPR reduction scheme using efficient peak cancellation for OFDM systems," *IEEE Transactions on Broadcasting*, vol. 58, no. 4, pp. 619-628, December 2012.
- 35) H.S. Joo, S.J. Heo, H.B. Jeon, **Jong-Seon No**, and D.J. Shin, "A new blind SLM scheme with low decoding complexity for OFDM Systems," *IEEE Transactions on Broadcasting*, vol. 58, no. 4, pp. 669-676, December 2012.
- 36) K.H. Kim, H. Park, **Jong-Seon No**, H. Chung, and D.J. Shin, "Clipping noise cancellation for OFDM systems using reliable observations based on compressed sensing," *IEEE Transactions on Broadcasting*, vol. 61, no. 1, pp. 111-118, March 2015.
- 37) Young-Jeon Cho, Kee-Hoon Kim, Jun-Young Woo, Kang-Seok Lee, **Jong-Seon No**, Fellow, and Dong-Joon Shin, "Low-complexity PTS schemes using dominant time-domain samples in OFDM systems," *IEEE Transactions on Broadcasting*, accepted for publication, January. 2017.

<Other IEEE Transactions: 16 papers>

- 38) D.W. Lim, C.W. Lim, **Jong-Seon No**, and H. Chung, "A new SLM OFDM with low complexity for PAPR reduction," *IEEE Signal Processing Letters*, vol.12, no.2, pp. 93-96, February 2005.
- 39) D.W. Lim, S.J. Heo, **Jong-Seon No**, and H. Chung, "On the phase sequence set of SLM OFDM scheme for a crest factor reduction," *IEEE Transactions on Signal Processing*, vol. 54, no. 5, pp. 1931-1935, May 2006.
- 40) J.D. Yang, X. Jin, K.Y. Song, **Jong-Seon No**, and D.J. Shin, "Multicode MIMO systems with quaternary LCZ and ZCZ sequences," *IEEE Transactions on Vehicular Technology*, vol. 57, no. 4, pp. 2334-2341, July 2008.
- 41) S. Kim, M.H. Jang, **Jong-Seon No**, S.N. Hong, and D.J. Shin, "Sequential message-passing decoding of LDPC codes by partitioning check nodes," *IEEE Transactions on Communications*, vol. 56, no. 7, pp. 1025-1031, July 2008.
- 42) X. Jin, J.D. Yang, K.Y. Song, **Jong-Seon No**, and D.J. Shin, "On the relationship between mutual information and bit error probability for some linear dispersion codes," *IEEE Transactions on Wireless Communications*, vol. 8, no. 1, pp. 90-94, January 2009.
- 43) K.Y. Song, J.D. Yang, X. Jin, **Jong-Seon No**, and H. Chung, "Alamouti code with quadrature partial response signaling," *IEEE Transactions on Wireless Communications*, vol. 8, no. 8, pp. 3939-3943, August 2009.
- 44) X. Jin, **Jong-Seon No**, and D.J. Shin, "Relay selection for decode-and-forward cooperative network with multiple antennas," *IEEE Transactions on Wireless Communications*, vol. 10, no. 12, pp. 4068-4079, December 2011.
- 45) S. Hong, H. Park, B. Shin, **Jong-Seon No**, and H. Chung, "A new performance measure using k-set correlation for compressed sensing matrices," *IEEE Signal Processing Letters*, vol. 19, no. 3, pp. 143-146, March 2012.
- 46) Y.J. Cho, **Jong-Seon No**, and D.J. Shin, "A new low-complexity PTS scheme based on successive local search using sequences," *IEEE Communications Letters*, vol. 16, no. 9, pp. 1470-1473, September 2012.
- 47) X. Jin, **Jong-Seon No**, and D.J. Shin, "Source transmit antenna selection for MIMO decode-and-forward relay networks," *IEEE Transactions on Signal Processing*, vol. 61, no. 7, pp. 1657-1662, April 2013.
- 48) H. Park, S. Hong, **Jong-Seon No**, and D.J. Shin, "Construction of high-rate regular quasi-cyclic LDPC codes based on cyclic difference families," *IEEE Transactions on Communications*, vol.61, no. 8, pp. 3108-3113, August 2013.
- 49) G. Wunder, R.F.H. Fischer, H. Boche, S. Litsyn, and **Jong-Seon No**, "The PAPR problem in OFDM transmission: New directions for a long-lasting problem," *IEEE Signal Processing Magazine*, vol. 30, pp. 130-144, November 2013.
- 50) Jun-Young Woo, Hyun-Seung Joo, Kee-Hoon Kim, **Jong-Seon No**, and Dong-Joon Shin, "PAPR analysis of class-III SLM scheme based on variance of correlation of alternative OFDM signal sequences," *IEEE Communications Letters*, vol. 19, no. 6, pp. 989-992, June 2015.

- 51) Kee-Hoon Kim, **Jong-Seon No**, and Dong-Joon Shin, "On the properties of cubic metric for OFDM signals," *IEEE Signal Processing Letters*, vol. 23, no. 1, pp. 80-83, January 2016.
- 52) Bohwan Jun, Pilwoong Yang, **Jong-Seon No**, and Hosung Park, "New fountain codes with improved intermediate recovery based on batched zigzag coding," *IEEE Transactions on Communications*, vol. 65, no. 1, pp. 23-36, January 2017.
- 53) Yongwoo Lee, **Jong-Seon No**, and Young-Sik Kim, "Ciphertext-only attack on linear feedback shift register-based Esmaeili-Gulliver cryptosystem," *IEEE Communications Letters*, accepted for publication, January 2017.

<Designs, Codes and Cryptography: 3 papers>

- 54) **Jong-Seon No**, D.J. Shin, and T. Helleseth, "On the p-ranks and characteristic polynomials of cyclic difference sets," *Designs, Codes and Cryptography*, vol. 33, issue 1, pp. 23-37, August 2004.
- 55) **Jong-Seon No**, "New cyclic difference sets with Singer parameters constructed from d-homogeneous functions," *Designs, Codes and Cryptography*, vol. 33, issue 3, pp. 199-213, November 2004.
- 56) J.W. Jang, **Jong-Seon No**, and H. Chung, "Butson Hadamard matrices with partially cyclic core," *Designs, Codes and Cryptography*, vol. 43, no. 2-3, pp. 93-101, June 2007.

<Journal of Communications and Networks: 7 papers>

- 57) **Jong-Seon No** and H.Y. Song, "Expanding generalized Hadamard matrices over G^m by substituting several generalized Hadamard matrices over G ," *Journal of Communications and Networks*, vol. 3, no. 4, pp. 361-364, December 2001.
- 58) S.H. Kim, J.D. Yang, and **Jong-Seon No**, "Exact bit error probability of orthogonal space-time block codes with quadrature amplitude modulation," *Journal of Communications and Networks*, vol. 10, no. 3, pp. 253-257, September 2008.
- 59) D.W. Lim, S.J. Heo, and **Jong-Seon No**, "An overview of peak-to-average power ratio reduction schemes for OFDM signals," *Journal of Communications and Networks*, vol. 11, no. 3, pp. 229-239, June 2009.
- 60) J.W. Jang, S.H. Kim, and **Jong-Seon No**, "New construction of quaternary low correlation zone sequence sets from binary low correlation zone sequence sets," *Journal of Communications and Networks*, vol. 12, no. 4, pp. 330-333, August 2010.
- 61) X. Jin, J.D. Yang, **Jong-Seon No**, and D.J. Shin, "Distributed space-time coded non-orthogonal DF protocols with source antenna switching," *Journal of Communications and Networks*, vol. 12, no. 5, pp. 492-498, October 2010.
- 62) J.D. Yang, K.Y. Song, **Jong-Seon No**, and D.J. Shin, "Soft-decision-and-forward protocol for cooperative communication networks with multiple antennas," *Journal of Communications and Networks*, vol. 13, no. 3, pp. 257-265, June 2011.
- 63) Beomkyu Shin, Seokbeom Hong, Hosung Park, **Jong-Seon No**, and Dong-Joon Shin, "New decoding scheme for LDPC codes based on simple product code structure,"

<IEICE Transactions: 21 papers>

- 64) S.H. Kim, I.S. Kang, and **Jong-Seon No**, "Symbol error probability of orthogonal space-time block codes with QAM in slow Rayleigh fading channel," *IEICE Transactions on Communications*, vol. E87-B, no. 1, pp. 97-103, January 2004.
- 65) S.H. Kim, G.M. Gil, and **Jong-Seon No**, "New classes of bent functions and generalized bent functions," *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, vol. E87-A, no.2, pp.480-488, February 2004.
- 66) Y.S. Kim, J.W. Jang, **Jong-Seon No**, and T. Hellesteth, "New constructions of p-ary bent sequences," *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, vol. E87-A, no. 2, pp.489-494, February 2004.
- 67) J.W. Jang, **Jong-Seon No**, and H. Chung, "A new construction of optimal p^2 -ary low correlation zone sequences using unified sequences," *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, vol. E89-A, no. 10, pp. 2656-2661, October 2006.
- 68) E.Y. Seo, Y.S. Kim, **Jong-Seon No**, and D.J. Shin, "Cross-correlation distribution of p-ary m-sequence and its p+1 decimated sequences with shorter period," *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, vol. E90-A, no. 11, pp. 2568-2574, November 2007.
- 69) J.S. Chung, Y.S. Kim, T.H. Lim, **Jong-Seon No**, and H. Chung, "On some properties of M-ary Sidelnikov sequences," *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, vol. E92-A, no. 1, pp. 342-345, January 2009.
- 70) M.H. Jang, B. Shin, W.M. Park, **Jong-Seon No**, and D.J. Shin, "Convergence speed analysis of layered decoding of block-type LDPC codes," *IEICE Transactions on Communications*, vol. E92-B, no. 7, pp. 2484-2487, July 2009.
- 71) K.Y. Song, **Jong-Seon No**, H. Chung, "Bit error rate and power allocation of soft-decision-and-forward cooperative networks," *IEICE Transactions on Communications*, vol. E94-B, no. 1, pp. 234-242, January 2011.
- 72) T.H. Lim, **Jong-Seon No**, and H. Chung, "New construction of quaternary sequences with good correlation using binary sequences with good correlation," *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, vol. E94-A, no. 8, pp. 1701-1705, August 2011.
- 73) B. Shin, H. Park, **Jong-Seon No**, and H. Chung, "Multi-stage decoding scheme with post-processing for LDPC codes to lower the error floors," *IEICE Transactions on Communications*, vol. E94-B, no. 8, pp. 2375-2377, August 2011.
- 74) X. Jin, D.S. Jin, **Jong-Seon No**, and D.J. Shin, "Diversity analysis of MIMO decode-and-forward relay network by using near-ML decoder," *IEICE Transactions on Communications*, vol. E94-B, no. 10, pp. 2828-2836, October 2011.
- 75) K.Y. Song, J. Kim, **Jong-Seon No**, and H. Chung, "Analysis on soft-decision-and-forward cooperative networks with multiple relays," *IEICE Transactions on Communications*, vol. E95-B, no. 2, pp. 509-518, February 2012.

- 76) S.T. Choi and **Jong-Seon No**, "On the cross-correlation distributions of p-ary m-sequences and their decimated sequences," *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, vol. E95-A, no. 11, pp. 1808-1818, November 2012.
- 77) Y.S. Kim, J.W. Jang, S.H. Kim, and **Jong-Seon No**, "New quaternary sequences with ideal autocorrelation constructed from Legendre sequences," *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, vol. E96-A, no. 9, pp. 1872-1882, September 2013.
- 78) S.T. Choi, J.Y. Kim, and **Jong-Seon No**, "On the cross-correlation of a p-ary m-sequence and its decimated sequences by $d=(p^n+1)/(p^k+1)+(p^n-1)/2$," *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, vol.E96-B, no. 9, pp.2190-2197, September 2013.
- 79) K.H. Kim, H. Park, S. Hong, and **Jong-Seon No**, "Fast correlation method for partial Fourier and Hadamard sensing matrices in matching pursuit algorithms," *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, vol. E97-A, no. 8, pp. 1674-1679, August 2014.
- 80) W.J. Lee, J.Y. Kim, and **Jong-Seon No**, "New families of p-ary sequences of period $(p^n-1)/2$ with low maximum correlation magnitude," *IEICE Transactions on Communications*, vol. E97-B, no. 11, pp. 2311-2315, November 2014.
- 81) J.Y. Kim, C.M. Cho, W.J. Lee, and **Jong-Seon No**, "On the cross-correlation between two decimated p-ary m-sequences by 2 and $4p^{\lfloor n/2 \rfloor}-2$," *IEICE Transactions on Communications*, vol. E98-B, no. 3, pp. 415-421, March 2015.
- 82) Chang-Min Cho, Ji-Youp Kim, and **Jong-Seon No**, "New p-ary sequence families of period $(p^n - 1)/2$ with good correlation property using two decimated m-sequences," *IEICE Transactions on Communications*, vol.E98-B, no. 7, pp. 1268-1275, July 2015.
- 83) Jun-Young Woo, Kee-Hoon Kim, Kang-Seok Lee, **Jong-Seon No**, and Dong-Joon Shin, "Analysis of oversampling effect on selected mapping scheme using CORR metric," *IEICE Transactions on Communications*, vol. E99-B, no. 2, pp. 364-369, February 2016.
- 84) Kee-Hoon Kim, Hyun-Seung Joo, **Jong-Seon No**, and Dong-Joon Shin, "An efficient selection method of a transmitted OFDM signal sequence for various SLM schemes," *IEICE Transactions on Communications*, vol. E99-B, no. 3, pp. 703-713, March 2016.

<Other Journals: 14 papers>

- 85) J.W. Jang, S.H. Kim, **Jong-Seon No**, and H. Chung, "New constructions of quaternary Hadamard matrices," *Lecture Notes in Computer Science*, vol. 3486/2005, pp. 361-372, May 2005.
- 86) Y.S. Kim, J.S. Chung, **Jong-Seon No**, and H. Chung, "Linear complexity over F_p of ternary Sidelnikov sequences," *Lecture Notes in Computer Science*, vol. 4086/2006, pp. 61-73, September 2006.
- 87) J.D. Yang, X. Jin, **Jong-Seon No**, and D.J. Shin, "On the error probability of quasi-orthogonal space-time block codes," *International Journal of Communication Systems*, vol. 21, no. 10, pp. 1033-1045, October 2008.

- 88) S.R. Lee, **Jong-Seon No**, E.H. Shin, and H. Chung, "On eigenvalues of row-inverted Sylvester Hadamard matrices," *Results in Mathematics*, vol. 54, no. 1-2, pp. 117-126, August 2009.
- 89) D.S. Jin, X. Jin, Jong-Seon No, and D.J. Shin, "Relay on-off threshold for NDF protocol with distributed orthogonal space-time block codes," *EURASIP Journal on Wireless Communications and Networking*, vol. 2012, September 2012.
- 90) S.T. Choi, S. Hong, **Jong-Seon No**, and H. Chung, "Differential spectrum of some power functions in odd prime characteristic," *Finite Fields and Their Applications*, vol. 21, pp. 11-29, May 2013.
- 91) K.H. Kim, H.B. Jeon, **Jong-Seon No**, and D.J. Shin, "Low-complexity selected mapping scheme using cyclic-shifted inverse fast Fourier transform for peak-to-average power ratio reduction in orthogonal frequency division multiplexing systems," *IET communications*, vol. 7, no. 8, pp. 774-782, May 2013.
- 92) B. Shin, S.H. Kim, H. Park, **Jong-Seon No**, and D.J. Shin, "New stopping criteria for iterative decoding of LDPC codes in H-ARQ systems," *International Journal of Communication Systems*, vol. 26, pp. 1475-1484, November 2013.
- 93) D.S. Jin, **Jong-Seon No**, and D.J. Shin, "New interference alignment schemes with full and half-duplex relays for the quasi-static X channel," *IET Communications*, vol. 8, pp. 351-359, February 2014.
- 94) B. Shin, H. Park, S. Hong, **Jong-Seon No**, and S.H. Kim, "Quasi-cyclic LDPC codes using overlapping matrices and their layered decoders," *International Journal of Electronics and Communications (AEU)*, vol. 68, pp. 379-383, May 2014.
- 95) T.H. Kim, D.S. Jin, **Jong-Seon No**, and H. Chung, "On the minimum number of antennas and DOF of MIMO multi-link two-way relay X networks," *IET Communications*, vol. 9, issue 4, pp. 568-575, March 2015.
- 96) J. Kim, D.S. Jin, X. Jin, **Jong-Seon No**, and D.J. Shin, "Interference alignment-and-cancellation scheme based on Alamouti code for the three-user MIMO interference channel," *IET Communications*, vol. 9, issue. 10. pp. 1278-1288, June 2015.
- 97) Kang-Seok Lee, Young-Cheon Cho, Jun-Young Woo, **Jong-Seon No**, and Dong-Joon Shin, "Low-complexity PTS schemes using OFDM signal rotation and pre-exclusion of phase rotating vectors," *IET Communications*, vol. 10, no. 5, pp. 540-547, March 2016.
- 98) Chang-Min Cho, Wi-Jik Lee, **Jong-Seon No**, and Young-Sik Kim, "Upper bound on the cross-correlation between two decimated sequences," *IEICE Transactions on Communications*, accepted for publication, November. 2016.

(International Conferences: 110 papers)

<IEEE Conferences: 61 papers>

- 1) **Jong-Seon No** and P. V. Kumar, "On the partial-period correlation moments of GMW sequences," *IEEE Military Communications Conference*, October 1987, pp. 33.6.1-33.6.4.

- 2) **Jong-Seon No** and P. V. Kumar, "A new family of binary pseudorandom sequences having optimal periodic correlation properties and large linear span," *IEEE International Conference on Communications*, June 1988, pp. 25.4.1-25.4.5.
- 3) **Jong-Seon No** and P.V. Kumar, "Exact linear span expressions for a family of recently discovered binary pseudorandom sequences," *IEEE International Symposium on Information Theory*, June 1988, p. 10.
- 4) **Jong-Seon No**, "A new family of frequency hopping patterns with good Hamming autocorrelation and crosscorrelation," *IEEE Military Communications Conference '93(Boston,MA)*, October 1993, pp. 451-454.
- 5) S.H. Hong and **Jong-Seon No**, "Performance analysis of CDMA systems by using biorthogonal codes," *45th IEEE Vehicular Technology Conference(Chicago,USA)*, July 1995, pp. 694-698.
- 6) **Jong-Seon No**, "Generalization of No sequences," *IEEE International Symposium on Information Theory(Whistler,Canada)*, September 1995, p. 86.
- 7) S.S. Han, **Jong-Seon No**, Y.C. Jeung, K.O. Kim, Y.B. Shin, S.J. Hahm, and S.B. Lee, "New soft-output MLSE algorithm for GSM digital cellular systems," *1995 4-th IEEE International Conference on Universal Personal Communications Record (ICUPC '95)(Tokyo,Japan)*, November 1995, pp. 919-923.
- 8) **Jong-Seon No**, H.K. Lee, H. Chung, K. Yang, and H.Y. Song, "On the classification of binary sequences of period $2^n - 1$ with ideal autocorrelation," *IEEE International Symposium on Information Theory(Ulm,Germany)*, June 1997, p. 42.
- 9) **Jong-Seon No**, H. Chung, and M. Yun, "Construction of binary sequences with ideal autocorrelation by the polynomial $z^d + (z+1)^d$," *IEEE International Symposium on Information Theory(MIT,USA)*, August 1998, p. 469.
- 10) **Jong-Seon No**, H. Chung, H.Y. Song, K. Yang, J.D. Lee, and T. Helleseth, "Balanced and almost balanced binary sequences of period $p^m - 1$ with optimal autocorrelation using the polynomial $(z+1)^d + az^d + b$ over $GF(p^m)$," *IEEE International Symposium on Information Theory(Sorrento, Italy)*, June 2000, p. 299.
- 11) **Jong-Seon No** and H.Y. Song, "Generalized Sylvester-type Hadamard matrices," *IEEE International Symposium on Information Theory*, June 2000, p. 472.
- 12) **Jong-Seon No**, "p-ary d-form sequences with ideal autocorrelation property," *IEEE International Symposium on Information Theory (Washington D.C., USA) Conference Record*, June 29, 2001, p.96.
- 13) S.H. Kim, G.M. Gil, K.H. Kim, and **Jong-Seon No**, "Generalized bent functions constructed from partial spreads," *IEEE International Symposium on Information Theory*, June 30-July 5, 2002, p. 41.
- 14) **Jong-Seon No**, G.M. Gil, and D.J. Shin, "Generalized construction of binary bent sequences with optimal correlation property," *IEEE International Symposium on Information Theory*, June 30-July 5, 2002, p. 99.
- 15) S.H. Kim and **Jong-Seon No**, "New family of binary sequences with three- or five-valued crosscorrelation property," *IEEE International Symposium on Information Theory*, June 30-July 5, 2002, p. 100.

- 16) **Jong-Seon No**, D.J. Shin, and Tor Helleseeth, "On the p-ranks and characteristic polynomials of cyclic difference sets," *IEEE International Symposium on Information Theory*, June 30-July 5, 2002, p. 96.
- 17) Tor Helleseeth, S.H. Kim, and **Jong-Seon No**, "Linear complexity over F_p and trace representation of Lempel-Cohn-Eastman sequences," *IEEE International Symposium on Information Theory*, June 30-July 5, 2002, p. 180.
- 18) S.H. Kim, I.S. Kang, and **Jong-Seon No**, "Exact bit error probability of orthogonal space-time block codes with quadrature amplitude modulation," *IEEE International Symposium on Information Theory*, June 29-July 4, 2003, p. 63.
- 19) J.W. Jang, Y.S. Kim, **Jong-Seon No**, and T. Helleseeth, "New family of p-ary sequences with optimal correlation property and large linear span," *IEEE International Symposium on Information Theory*, June 29-July 4, 2003, p. 405.
- 20) D.J. Shin and **Jong-Seon No**, "Extended binary bent sequences with optimal correlation and balance properties," *IEEE International Symposium on Information Theory*, June 29-July 4, 2003, p. 406.
- 21) Y.S. Kim, J.W. Jang, **Jong-Seon No**, and T. Helleseeth, "New p-ary bent sequences," *IEEE International Symposium on Information Theory*, June 27-July 2, 2004, p. 498.
- 22) J.W. Jang, **Jong-Seon No**, H. Chung, and X. Tang, "Binary sequence sets with low correlation zone," *IEEE International Symposium on Information Theory (Adelaide, Australia)*, September 4-9, 2005, pp. 487-490.
- 23) S.H. Kim, J.W. Jang, K.Y. Song, **Jong-Seon No**, and H. Chung, "New quaternary low correlation zone sequences," *IEEE International Symposium on Information Theory (Adelaide, Australia)*, September 4-9, 2005, pp. 860-864.
- 24) D.W. Lim, S.J. Heo, **Jong-Seon No**, and H. Chung, "A PTS OFDM scheme with low computational complexity," *IEEE International Symposium on Information Theory (Adelaide, Australia)*, September 4-9, 2005, pp. 1141-1144.
- 25) S. Kim, **Jong-Seon No**, H. Chung, and D.J. Shin, "Girth analysis of Tanner's (3, 5) QC LDPC codes," *IEEE International Symposium on Information Theory (Adelaide, Australia)*, September 4-9, 2005, pp. 1632-1636.
- 26) Y.S. Kim, J.S. Chung, **Jong-Seon No**, and H. Chung, "Derivation of autocorrelation distributions of Sidel'nikov sequences using cyclotomic numbers," *IEEE International Symposium on Information Theory (Adelaide, Australia)*, September 4-9, 2005, pp. 1957-1961.
- 27) J.S. Chung, Y.S. Kim, T.H. Lim, **Jong-Seon No**, and H. Chung, "Cyclotomic numbers of order 5 over F_{p^n} ," *IEEE International Symposium on Information Theory (Adelaide, Australia)*, September 4-9, 2005, pp. 1962-1966.
- 28) Y.S. Kim, J.S. Chung, **Jong-Seon No**, and H. Chung, "On the linear complexity over F_p of M-ary Sidel'nikov sequences," *IEEE International Symposium on Information Theory (Adelaide, Australia)*, September 4-9, 2005, pp. 2007-2011.
- 29) J.W. Jang, J.D. Yang, **Jong-Seon No**, and H. Chung, "New construction of balanced quasi-cyclic generalized Hadamard matrices," *IEEE International Symposium on Information Theory (Seattle, WA, USA)*, July 9-14, 2006, pp. 307-310.

- 30) J.W. Jang, J.S. Chung, **Jong-Seon No**, and H. Chung, "New sets of optimal p -ary low correlation zone sequences," *IEEE International Symposium on Information Theory (Seattle, WA, USA)*, July 9-14, 2006, pp. 316-320.
- 31) J.W. Jang, Y.S. Kim, **Jong-Seon No**, and H. Chung, "Optimal p^2 -ary low correlation zone sequences using unified sequences," *IEEE International Symposium on Information Theory (Seattle, WA, USA)*, July 9-14, 2006, pp. 321-325.
- 32) S. Kim, **Jong-Seon No**, H. Chung, and D.J. Shin, "Cycle analysis and construction of protographs for QC LDPC codes with girth larger than 12," *IEEE International Symposium on Information Theory (Nice, France)*, June 24-29, 2007, pp. 2256-2260.
- 33) E.Y. Seo, Y.S. Kim, **Jong-Seon No**, and D.J. Shin, "Cross-correlation distribution of p -ary m -sequence and its $p + 1$ subsequences," *IEEE International Symposium on Information Theory (Nice, France)*, June 24-29, 2007, pp. 2511-2515.
- 34) E.Y. Seo, Y.S. Kim, **Jong-Seon No**, and D.J. Shin, "Cross-correlation distribution of p -ary m -sequence of period $p^{4k}-1$ and its decimated sequences by $\{(p^{2k} + 1)/2\}^2$," *IEEE International Symposium on Information Theory (Nice, France)*, June 24-29, 2007, pp. 2516-2520.
- 35) S.J. Heo, H.S. Noh, **Jong-Seon No**, and D.J. Shin, "A modified SLM scheme with low complexity for PAPR reduction of OFDM systems," *The 18th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (Athens, Greece)*, September 3-7, 2007.
- 36) D.W. Lim, H.S. Noh, S.J. Heo, **Jong-Seon No**, and D.J. Shin, "Constructions of the near optimal PRT set using the cyclic difference set in TR scheme," *The 18th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (Athens, Greece)*, September 3-7, 2007.
- 37) J.D. Yang, X. Jin, K.Y. Song, **Jong-Seon No**, and D.J. Shin, "Multicode MIMO systems with quaternary LCZ and ZCZ sequences," *The 18th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (Athens, Greece)*, September 3-7, 2007.
- 38) X. Jin, J.D. Yang, K.Y. Song, **Jong-Seon No**, and D.J. Shin, "Bounds on the mutual information for bit-linear linear-dispersion codes," *The 18th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (Athens, Greece)*, September 3-7, 2007.
- 39) Y.S. Kim, J.S. Chung, S.T. Choi, **Jong-Seon No**, and H. Chung, "New construction of M -ary sequence family from Sidel'nikov sequences," *IEEE International Symposium on Information Theory (Toronto, Canada)*, July 6-11, 2008, pp.1923-1926.
- 40) J.S. Chung, **Jong-Seon No**, Y.S. Kim, J.W. Jang, and H. Chung, "Generalized extending method for construction of q -ary low correlation zone sequence sets," *IEEE International Symposium on Information Theory (Toronto, Canada)*, July 6-11, 2008, pp.1927-1930.
- 41) J.W. Jang, J.S. Chung, and **Jong-Seon No**, "Quaternary low correlation zone sequence set with flexible parameters," *IEEE International Symposium on Information Theory (Toronto, Canada)*, July 6-11, 2008, pp.2767-2771.
- 42) J.W. Jang, Y.S. Kim, S.H. Kim, and **Jong-Seon No**, "New quaternary sequences with ideal autocorrelation constructed from binary sequences with ideal autocorrelation,"

IEEE International Symposium on Information Theory(Seoul, Korea), June 28-July 3, 2009, pp.278-281.

- 43) Y.S. Kim, J.W. Jang, S.H. Kim, and **Jong-Seon No**, "New construction of quaternary sequences with ideal autocorrelation from Legendre sequences," *IEEE International Symposium on Information Theory*(Seoul, Korea), June 28-July 3, 2009, pp.282-285.
- 44) Y.S. Kim, J.W. Jang, S.H. Kim, and **Jong-Seon No**, "New quaternary sequences with optimal autocorrelation," *IEEE International Symposium on Information Theory* (Seoul, Korea), June 28-July 3, 2009, pp.286-289.
- 45) X. Jin, D.S. Jin, **Jong-Seon No**, and D.J. Shin, "On the diversity analysis of decode-and-forward protocol with multiple antennas," *IEEE International Symposium on Information Theory*(Seoul, Korea), June 28-July 3, 2009, pp.513-516.
- 46) K.Y. Song, J.D. Yang, X. Jin, **Jong-Seon No**, and H. Chung, "Quadrature partial response signaling based on Alamouti code," *IEEE International Symposium on Information Theory*(Seoul, Korea), June 28-July 3, 2009, pp.919-922.
- 47) J.D. Yang, K.Y. Song, **Jong-Seon No**, and D.J. Shin, "Soft-decision-and-forward protocol for cooperative communication networks based on Alamouti code," *IEEE International Symposium on Information Theory*(Seoul, Korea), June 28-July 3, 2009, pp.1016-1019.
- 48) S.J. Heo, H.S. Joo, **Jong-Seon No**, D.W. Lim, and D.J. Shin, "Analysis of PAPR reduction performance of SLM schemes with correlated phase vectors," *IEEE International Symposium on Information Theory*(Seoul, Korea), June 28-July 3, 2009, pp.1540-1543.
- 49) H.S. Joo, S.J. Heo, H.B. Jeon, **Jong-Seon No**, and D.J. Shin, "A new blind SLM scheme with low complexity of OFDM signals," *IEEE Vehicular Technology Conference*(Anchorage, USA), September 20-23, 2009.
- 50) H.B. Jeon, S.J. Heo, **Jong-Seon No**, D.J. Shin, and D.W. Lim, "Partial bit inverted SLM scheme for PAPR reduction in QAM modulated OFDM signals," *IEEE Vehicular Technology Conference*(Anchorage, USA), September 20-23, 2009.
- 51) M.H. Jang, B.K. Shin, **Jong-Seon No**, S.H. Kim, and D.J. Shin, "A new criterion for retransmission in Type I H-ARQ schemes of LDPC coded OFDM systems," *IEEE Vehicular Technology Conference*(Anchorage, USA), September 20-23, 2009.
- 52) J.Y. Kim, S.T. Choi, **Jong-Seon No**, and H. Chung, "A new family of p-ary decimated sequences with low correlation," *IEEE International Symposium on Information Theory*(Austin, USA), June 13-18, 2010, pp. 1264-1267.
- 53) S.T. Choi, **Jong-Seon No**, and H. Chung, "On the cross-correlation of a ternary m-sequence $3^{4k+2}-1$ and its decimated sequence by $(3^{2k+1}+1)^2/8$," *IEEE International Symposium on Information Theory*(Austin, USA), June 13-18, 2010, pp. 1268-1271.
- 54) J.S. Chung, **Jong-Seon No**, and H. Chung, "A new M -ary sequence family constructed from Sidel'nikov sequences," *ISSSTA 2010(IEEE 11th International Symposium on Spread Spectrum Techniques and Applications, Taichung, Taiwan)*, October 17-20, 2010, pp. 194-197.
- 55) H. Park, S. Hong, **Jong-Seon No**, and D.J. Shin, "Protograph design with multiple edges for regular QC LDPC codes having large girth," *IEEE International Symposium*

on *Information Theory*(St. Petersburg, Russia), July 31-August 05, 2011, pp. 923-927.

- 56) S.T. Choi, T.H. Lim, **Jong-Seon No**, and H. Chung, "Evaluation of cross-correlation values of p-ary m-sequence and its decimated sequence by $(p^{n+1})/(p+1)+(p^n-1)/2$," *IEEE International Symposium on Information Theory*(St. Petersburg, Russia), July 31-August 05, 2011, pp. 637-641.
- 57) D.S. Jin, **Jong-Seon No**, and D.J. Shin, "Interference alignment aided by relays for the quasi-static X channel," *IEEE International Symposium on Information Theory*(St. Petersburg, Russia), July 31-August 05, 2011, pp. 2652-2656.
- 58) H.S. Park, S.B. Hong, **Jong-Seon No**, and D.J. Shin, "A new parity structure with multi-weight circulants for QC LDPC codes," *IEEE International Symposium on Information Theory*(Cambridge, USA), July 1-6, 2012, pp. 3103-3107.
- 59) J.Y. Kim, S.T. Choi, T.H. Lim, **Jong-Seon No**, and H. Chung, "On the cross-correlation of ternary m-sequences of period $3^{4k+2}-1$ with decimation $\{3^{4k+2}-3^{2k+1}+2\} \{4\}+3^{2k+1}$," *IEEE International Symposium on Information Theory*(Cambridge, USA), July 1-6, 2012, pp. 1019-1023.
- 60) S.T. Choi, J.Y. Kim, **Jong-Seon No**, and H. Chung, "Weight distribution of some cyclic codes," *IEEE International Symposium on Information Theory*(Cambridge, USA), July 1-6, 2012, pp. 2911-2913.
- 61) C.M. Cho, J.Y. Kim, and **Jong-Seon No**, "[Cross-correlation distribution between two decimated sequences by 2 and \$\(pm+1\)^2 / 2\$](#) ," *IEEE International Symposium on Information Theory*(Honolulu, USA), June 29-July 4, 2014, pp. 1653-1657.

<Non-IEEE Conferences: 49 papers>

(Domestic Journals: 66 papers)

(Domestic Conferences: 171 papers)

PATENTS

(International Patents: Total 35)

- 1) **No Jong-Seon**, "Synchronization detecting method using path metric values and branch metric values of Viterbi decoder," JP patent. 2701972B2, 19910815 (application No. 1990000286949, 19901024).
- 2) **No Jong-Seon**, "Synchronization detector using path metric and branch metric values of a Viterbi decoder," US patent. 5050191, 19910917(application No. 1989-427167, 19891024).
- 3) **No Jong-Seon**, "Synchronization detector using path metric and branch metric values of a Viterbi decoder," CA patent. 2026021, 19950509(application No. 427167, 19891024).
- 4) Yoon Soon-Young, Ahn Jae-Min, Kang Hee-Won, Kim Young-Ky, **No Jong-Seon**, Song Hong-Yeop, Chung Ha-Bong, Kim Je-Woo "Pseudo-orthogonal code

generating method and device," Europe patent. EP-0898393, 19990224(application No. EP-0306566, 19980818).

- 5) Yoon Soon-Young, Ahn Jae-Min, Kang Hee-Won, Kim Young-Ky, **No Jong-Seon**, Song Hong-Yeop, Chung Ha-Bong, Kim Je-Woo "Spread spectrum signal generating device and method," Europe patent. EP-0903871, 19990324(application No. EP-0306565, 19980818).
- 6) Yoon Soon-Young, Ahn Jae-Min, Kang Hee-Won, Kim Young-Ky, **No Jong-Seon**, Song Hong-Yeop, Chung Ha-Bong, Kim Je-Woo, "Transmitter in mobile communication system, band spread signal device and method for generating band spread signal," JP patent. 2947796B2, 19990702(application No. 1998000232161, 19980818).
- 7) Ahn Jae-Min, Chung Ha-Bong, Kang Hee-Won, Kim Je-Woo, Kim Young-Ky, **No Jong-Seon**, Song Hong-Yeop, Yoon Soon-Young, "System and method for generating band spread signal in CDMA mobile communication system," JP patent. 3054402B2, 20000407 (application No. 1998000232086, 19980818).
- 8) Kim Jae-Yeol, Park Chang-Soo, Kang Hee-Won, Kong Jun-Jin, **No Jong-Seon**, Yang Kyeong-Cheol, "Channel encoding/decoding in communication system," Europe patent. EP-1018220, 20000712(application No. EP-0935167, 19990806).
- 9) Lee Kwang-Wook, Yoon Soon-Young, Ahn Jae-Min, Kim Young-Ky, Kang Hee-Won, Kong Seung-Hyun, Chung Ha-Bong, **No Jong-Seon**, Yang Kyeong-Cheol, "Device and method for data encoding and frequency diversity in mobile communication system," US patent. 6310923, 20011030(application No. 1998-152019, 19980911), IPC: H40B 7/02; H40B 15/00; H40L 1/02; H40L 27/30.
- 10) Park Chang-Soo, Kong Jun-Jin, Kang Hee-Won, Kim Jae-Yeol, **No Jong-Seon**, Yang Kyeong-Cheol, "A communication apparatus and method for a CDMA communication system," Europe patent. EP-1151546 , 20011107(application No. EP-0902165, 20000121), IPC: H04B 1/69.
- 11) Kang Hee-Woon, Kim Jae-Yeol, Ahn Jae-Min, Kim Young-Ky, **No Jong-Seon**, Chung Ha-Bong, Yang Kyeong-Cheol, "Process of formation of quasi-orthogonal code and device employing this process in mobile communication system," Russian patent. 2178621, 20020120, IPC: H04B 7/26.
- 12) Kang Hee-Woon, Kim Jae-Yeol, Ahn Jae-Min, Kim Young-Ky, **No Jong-Seon**, Chung Ha-Bong, Yang Kyeong-Cheol, "Method for generating quasi-orthogonal code and spreader using the same in mobile communication system," US patent. 6377539, 20020423(application No. 1998-149924, 19980909), IPC: H04J 11/00.
- 13) Ahn Jae-Min, Yoon Soon-Young, Kang Hee-Won, Kim Young-Ky, **No Jong-Seon**, Song Hong-Yeop, Chung Ha-Bong, Kim Je-Woo, "Device and method for generating spread spectrum signal using pseudo-orthogonal code in CDMA mobile communications system," US patent. 6385187, 20020507(application No. 1998-135854, 19980818), IPC: H04J 13/02.
- 14) Yoon Soon-Young, Ahn Jae-Min, Kang Hee-Won, Kim Young-Ky, **No Jong-Seon**, Song Hong-Yeop, Chung Ha-Bong, Kim Je-Woo, "Spread spectrum signal generating device and method in transmitter of mobile communications system," US patent. US6396868, 20020528(application No. US1998000135990, 19980818), IPC: H04B 1/707.

- 15) Park Chang-Soo, Kong Jun-Jin, Kang Hee-Won, Kim Jae-Yeol, **No Jong-Seon**, Yang Kyeong-Cheol, "Device and method for generating and distributing coded symbols in a CDMA communication system," US patent. 6400703, 20020604(application No. 1999-324423, 19990601), IPC: H04B 7/208.
- 16) Lee Kwang-Wook, Yoon Soon-Young, Ahn Jae-Min, Kim Young-Ky, Kang Hee-Won, Kong Seung-Hyun, Chung Ha-Bong, **No Jong-Seon**, Yang Kyeong-Cheol, "Device and method for data coding and frequency division in mobile radio communication system," Russian patent. 2183905, 20020620, IPC: H03M 7/00.
- 17) Kim Jae-Yeol, Park Chang-Soo, Kang Hee-Won, Kong Jun-Jin, **No Jong-Seon**, Yang Kyeong-Cheol, "Channel coding device and method," Russian patent. 2184419, 20020627, IPC: H03M 13/03.
- 18) Kim Jae-Yeol, Park Chang-Soo, Kang Hee-Won, Kong Jun-Jin, **No Jong-Seon**, Yang Kyeong-Cheol, "Channel encoding device and method for communication system," US patent. 6437714, 20020820(application No. 1999-294658, 19990419, IPC: H03M 7/00.
- 19) Kim Jae-Yeol, Park Chang-Soo, Kang Hee-Won, Kong Jun-Jin, **No Jong-Seon**, Yang Kyeong-Cheol, "Channel coding/decoding in communication system," Russian patent. 2190929, 20021010, IPC: H03M 13/00.
- 20) Kim Jae-Yeol, Park Chang-Soo, Kang Hee-Won, Kong Jun-Jin, **No Jong-Seon**, Yang Kyeong-Cheol, "Channel encoding/decoding in communication system," US patent. 6487693, 20021126(application No. 1999-369626, 19990806), IPC: H03M 13/27; H03M 13/45.
- 21) Park Chang-Soo, Kong Jun-Jin, Kang Hee-Won, Kim Jae-Yeol, **No Jong-Seon**, Yang Kyeong-Cheol, "Device and method for generating and allocating coded symbols in code-division multiple-access communication system," Russian patent. 2197786, 20030127, IPC: H04J 13/02.
- 22) Park Chang-Soo, Kong Jun-Jin, Kang Hee-Won, Kim Jae-Yeol, **No Jong-Seon**, Yang Kyeong-Cheol, "Communication apparatus and method for a CDMA communication system," US patent. 6674807, 20040106(application No. 2000-489235, 20000121), IPC: H04L 23/02; H04L 5/12.
- 23) Kim Sunghwan, Kim Yong-June, **No Jong-Seon**, Lee Sang-Hyun, Kim Yun-Hee, Ahn Jae-Young, "Decoding apparatus for low-density parity-check codes using sequential decoding, and method thereof," US patent. 7590914, 20090915 (application No. 2005-105922, 20050413), IPC: H03M 13/00.
- 24) **No Jong-Seon**, Shin Dong-Joon, Heo Seok-Joong, Noh Hyung-Seok, "A modified SLM scheme with low complexity for PAPR reduction of OFDM systems," PCT patent application. PCT/KR2007/004239, 20070903.
- 25) Shin Beomkyu, Park Woo Myoung, **No Jong-Seon**, Cho Ki Hyoung, "Method of encoding and decoding data using LDPC code," PCT patent application. PCT/KR08/01495, 20080317.
- 26) **No Jong-Seon**, Shin Dong-Joon, Heo Seok-Joong, Noh Hyung-Seok, "A modified SLM scheme with low complexity for PAPR reduction of OFDM systems," US patent application. 2008-307127, 20081231.

- 27) **Jong Seon No**, Beom Kyu Shin, Seok Il Youn, Jae Dong Yang, Jun Jin Kong, Jae Hong Kim, Yong June Kim, Kyoung Lae Cho, "Hierarchical decoding apparatus," US patent application. 2009-428511, 20090423.
- 28) **Jong Seon No**, Beom Kyu Shin, Seok Il Youn, Jae Dong Yang, Jun Jin Kong, Jae Hong Kim, Yong June Kim, Kyoung Lae Cho, "Iterative decoding method and apparatus," US patent application. 2009-475640, 20090601.
- 29) **Jong-Seon No**, Dong-Joon Shin, Xianglan Jin, Jae-Dong Yang, "Source antenna switching scheme for non-orthogonal protocol," US patent application. 2009-571771, 20091001.
- 30) **Jong-Seon No**, Dong-Joon Shin, Hyun-Seung Joo, Seok-Joong Heo, Hyun-Bae Jeon, "Blind SLM and PTS method with low decoding complexity of OFDM signals," US patent application. 2009-580631, 20091016.
- 31) **Jong-Seon No**, Beom-kyu Shin, Ho-sung Park, Yong-june Kim, Jae-hong Kim, Young-hwan Lee, Jun-jin Kong, "Decoding method and memory system device," US patent application. 2010-652768, 20100106.
- 32) **Jong-Seon No**, Dong-Joon Shin, Beomkyu Shin, Hosung Park, Seokbeom Hong, "Product code decoding method and device," US patent, 8468430, 20130618(application No. 2011-005294, 20110112), IPC: H03M 13/00.

(Domestic Patents: 33)

PERSONAL	Date of Birth	January 1, 1959
	Marital Status	Married
	Hobby	Hiking
	Citizenship	Republic of Korea