

Curriculum Vitae Minglu JIN / September 2018

1. Personal details

Name: Minglu JIN

Born: 1958, Jilin, China

Status: Married

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2. Higher Education

Date: From-To	Institute	Degree	Area of specialization
1978.03- 1982.03	University of Science and Technology of China, Hefei, China	B.Sc	Information and Systems
1982.03- 1984.06	Beijing University of Aeronautics and Astronautics (Beihang University), Beijing, China	M.Sc	Communication and Electronics Systems, Thesis: A Study on Viterbi Decoding Techniques of Convolution Codes
1992.09- 1995.06	Beijing University of Aeronautics and Astronauts(Beihang University), Beijing, China	Ph.D	Communication and Information Systems, Thesis: Copy Generation Theory of Signals and its Applications
1995.09- 1997.10	Inha University, Inchon, Korea	Postdoctoral Fellow	Communication Engineering,

3. Appointments

Date: From-To	Institute	Title	Research area
2004.8-Present	Dalian University of Technology, China	Professor, Head of Lab.	Signal Processing, MIMO Technology
2004.3-2004.7	Shenyang Institute of Aeronautical Engineering, China	Professor, Vice Chairman of Academic Committee	Signal Processing Predistortion Technology
2001.8-2004.2	ETRI, Korea	Research Fellow,	Predistortion Technology and Wideband Transmission Technology
1984.6-2001.7	Shenyang Institute of Aeronautical Engineering, China	Professor, Dept. Head	Signal Processing for Communications
2000.1-2001.8	Shenyang High-Tech Industrial Development Zone of China	Assistant Director	Administration and management
1999.8-1999.12	Korea Electronics Technology Institute	Visiting Prof.	SEED algorithm and its VHDL implementations
1997.10-1999.7	Shenyang Institute of Aeronautical Engineering, Shenyang, China.	Chair., Prof. Dept. of EE,	CDMA Technology
1995.9-1997.9	Inha University, Korea	Postdoctoral Fellow	CDMA Technology
1988.6-1995.8	Shenyang Institute of Aeronautical Engineering, Shenyang, China.	Associate Professor	Channel Coding and Decoding
1987.5-1988.5	Osaka University, Osaka, Japan	Visiting Scholar	Manipulator arm Learning Control
1984.6-1987.4	Shenyang Institute of Aeronautical Engineering, Shenyang, China.	Assistant Professor	Channel Coding and Decoding
1997.7-1978.2	Tu-men Yuan-Yi State Farm, Tumen, China	Farm Laborer	be a farmer

4. Additional Functions/Tasks

Director of China communications society, Expert of evaluation of national technological invention award, National electronic design competition evaluation

experts, Director of Liaoning education steering committee.

5. Other Activities

Awards

- 1995.6 Second Aero-Space Science Prize, From Aero-Space Foundation Committee, China
- 1996.1 First Prize of Text Book, From Aero-Education Committee, China
- 1996.6 3rd Science Progress Prize, From Electronics Science Foundation Committee, China
- 1998.6 Second Aero-Space Science Prize, From Aero-Space Foundation Committee, China
- 2011.9 National Baosteel Excellent Teacher, China
- 2017.9 Liaoning Higher Education Teaching Achievements First prize, China

6. List of Publications (last years)

Papers:

1. Liu, WL, Gao, YL, Gu, ZY , **Jin, ML**. Necessary Condition-Based Detector for Generalized Space Shift Keying MIMO Systems, IEEE COMMUNICATIONS LETTERS, 22(1): 53-56, JAN 2018.
2. Liu, WL, Zhang, Y , **Jin, ML**. Lagrangian Detection for Generalized Space-Shift Keying MIMO Systems, IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, 66(9): 8585-8589, SEP 2017.
3. Xinhe Zhang, Qian Liu, and **Minglu Jin**. Detection of generalized space shift keying signal with sparse reconstruction, IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY, Vol. 66, Iss. 6, June 2017.
4. Chang Liu, Husheng Li, Jie Wang, and **M. Jin**. Optimal eigenvalue weighting detections for multi-antenna cognitive radio networks. IEEE Transactions on Wireless Communications, 2017, 16(4): 2083-2096.
5. Chang Liu, Husheng Li, Jie Wang, **Minglu Jin**, Jae Moungh Kim. Uncertainty principle based spatial-temporal resolution tradeoff for cognitive radio networks, 2017 IEEE International Conference on Communications (ICC), 2017.
6. Lijuan Zhang, Guifeng Wang, **Minglu Jin**, Jae Moungh Kim, Sang-Jo Yoo. Enhanced performance for LMMSE equalizer with factor graphs, 2017 International Conference on Information and Communication Technology Convergence (ICTC), pp: 318-323, 2017.
7. Yuhao Hua, Guannan Zhao, Wenjing Zhao, **Minglu Jin**. Modified codewords design for space-time block coded spatial modulation. IET COMMUNICATIONS, 2016 11 (2) : 249-257.
8. X. Zhang, G. Zhao, Q. Liu, N. Zhao, and **M. Jin**. Enhanced M-algorithm-based maximum likelihood detectors for spatial modulation, AEU-Int. J. Electron. Commun., 2016,70(9):1361-1366.
9. C. Liu, H. Li, and **M. Jin**, Blind central symmetry-based feature detection for spatial spectrum sensing, IEEE Tran. Veh. Technol., 2016, 65(12).
10. S Anamalamudi , **M. Jin**. Energy-Efficient Hybrid CCC-Based MAC Protocol for Cognitive Radio Ad Hoc Networks, IEEE Systems Journal, 2016 , 10 (1) :358-369.
11. W. Liu, Z. Gu, and **M. Jin**, Penalty function based detector for generalized space shift keying massive MIMO systems, IEEE Communications Letters, 2016, 20(4):664-667.
12. N. Zhao, F. Yu, **M. Jin**, Q. Yan, V. Leung. Interference alignment and its applications: a survey, research issues and challenges, IEEE Commun. Surveys Tuts., 2016,18(3).

Patents

1. **Title:** PIECEWISE POLYNOMIAL PREDISTORTION METHOD AND APPARATUS FOR COMPENSATING NONLINEAR DISTORTION OF HIGH POWER AMPLIFIER

- Country:** USA , 2003
Registration No.: 6642786
2. **Title:** Interactive adaptive filter and interactive adaptive filtering method thereof
Country: USA, 2006-11-7
Registration No.: 7133886
3. **Title:** LUT predistorter for power amplifier
Country: USA, 2007-1-30
Registration No.: 7170343

Books:

1. Qishan ZHANG and **Minglu JIN**, “Copy Theory of Signals and its Applications”(Chinese), People’s Posting Publishing House of China, 2001.
2. Bian Zhang Yu, Zhijun Li and **Minglu JIN**, “Digital Signal Processing” (Chinese), Northeast University of Industry Publishing House, 1994,2002
3. **Minglu Jin** and Qian Liu, “Digital System Design Using VHDL”(Chinese), Electronic Industry Press, 2008.
4. **Minglu Jin** and Hongzi Men, “Embedded SoPC Design with Nios II Processor and Verilog Examples ”(Chinese), Electronic Industry Press, 2015.