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### 教师简介

马媛媛，2011年毕业于挪威Agder大学，获信息与通信技术（ICT）博士学位。2017年9月起，就职与山东农业大学电子与通信工程系，副教授，现任电子与通信工程系副主任。在国际期刊及学术会议上发表学术论文近20篇。2013年获得欧盟第七框架协议（FP7）“玛丽居里国际人才计划”。曾赴英国帝国理工学院、德国汉堡工业大学访学交流。并多次受邀在澳大利亚、西班牙、德国、日本、印度、新加坡等国家举办的国际会议上发表学术演讲。应邀担任IEEE GLOBECOM、VTC、PIMRC、ICC等多个世界著名国际通信学术会议及期刊的论文审稿人

### 教学工作

承担本科生教学工作，主要教授课程包括《信息论与编码》、《通信系统概论》。并参与学生毕业设计及科技创新类大赛指导工作。

### 研究方向

第五代无线通信关键技术的研究，无线衰落信道建模，大数据，人工智能

### 科研项目

1. 2013年获得欧盟第七框架协议（FP7）“玛丽居里国际人才计划”
2. 2011年挪威国家石油与ABB联合项目-Jupiter EAP项目负责人，实现一个实时监控油田传输系统的智能化系统，该系统已经应用于挪威国家石油平台，并以第一作者在国际期刊发表主要项目成果；
3. 2011年在挪威，华为与挪威电信运营商Netcom的联合项目“NEMO”主要参

与人，参与世界第一个第四代无线通信LTE网络的搭建及优化；  
4. 挪威国家基金OptiMO项目主要参与人（2007-2011）；  
5. 基于正交频分复用的高速纠错抗干扰理论及关键技术研究（国家自然科学基金）项目主要参与人。

## 学术论文

### 期刊论文：

1. **Y. Ma**, L. Yang and X. Zheng, "A Geometry-Based Non-Stationary MIMO Channel Model for Vehicular Communications", China Communications, 2018. (SCI IF 1.514: 期刊/第一作者)
2. **Y. Ma**, B. O. Hogstad, M. Pätzold, and P. M. Crespo, "Statistical Modeling, Simulation, and Experimental Verification of Wideband Indoor Mobile Radio Channels", Wireless Communications and Mobile Computing. 2018. (SCI IF 0.869: 期刊/第一作者)
3. X. Zheng, C. Rong, **Y. Ma**, H. Ye, R. Chen, "Risk Management Using Big Real Time Data", accepted in Journal of Security and Privacy in Big Data, 2016 (期刊/第三作者)
4. **Y. Ma**, H. Fretheim, E. Persson, and T. Haugen, "An iterative method applied to correct the actual compressor performance to the equivalent performance under the specified reference conditions", International Journal on Control Theory and Computer Modelling (IJCTCM). 2013. (期刊/第一作者)
5. C. E. D. Sterian, **Y. Ma**, M. Pätzold, I. Banica, and H. He, "New super-orthogonal space-time trellis codes using differential M-PSK for noncoherent mobile communication systems with two transmit antennas", Annals of Telecommunications, vol. 66, no. 3 – 4, pp. 257 – 273, July 2010, DOI: 10.1007/s12243-010-0191-1.SCI IF: 0.72; 期刊/第二作者)

### 国际会议论文：

1. **Y. Ma** and M. Pätzold, "Modeling and statistical characterization of wideband and indoor radio propagation channels", in Proc. IEEE International Congress on Ultra Modern Telecommunications and Control Systems (ICUMT 2010), Moscow, Russia, October 2010. Accession number: 20110713667275 (EI检索会议/第一作者)
2. **Y. Ma** and M. Pätzold, "Performance analysis of Alamouti coded OFDM systems over Rayleigh fading channels corrected in space and time", Proc.

- 71st IEEE Vehicular Technology Conference, VTC 2010-Spring, Taipei, Taiwan, May 2010, pp. 1 – 6, Accession number: 20103013102644. (EI检索会议/第一作者)
3. **Y. Ma** and M. Pätzold, “Design and simulation of indoor radio propagation channels under LOS and NLOS propagation conditions”, 71st IEEE Vehicular Technology Conference, VTC2010-Spring, Taipei, Taiwan, May 2010, pp. 1 – 7, Accession number: 20103013102833 (EI检索会议/第一作者)
  4. **Y. Ma** and M. Pätzold, “Performance analysis of STBC-OFDM systems in temporally or spatially correlated fading channels”, Proc. IEEE Wireless Communications and Networking Conference, WCNC 2010, Sydney, Australia, Apr. 2010, pp. 1 – 5, Accession number: 20103113110648 (EI检索会议/第一作者)
  5. C. E. D. Sterian, **Y. Ma**, H. He, M. Pätzold, and I. Banica, “Super-orthogonal space-time trellis codes with differential phase modulation for noncoherent mobile communication systems”, in Proc. International Conference on Communications and Electronics, ICCE2010, Nha Trang, Vietnam, Aug. 2010. Accession number: 20110413612515 (EI检索会议/第二作者)
  6. **Y. Ma** and M. Pätzold, “Performance analysis of wideband SOS-based channel simulators with respect to the bit error probability of BPSK-OFDM systems with perfect and imperfect CSI”, in Proc. 12th International Symposium on Wireless Personal Multimedia Communications, WPMC 2009, Sendai, Japan, Sept. 2009. DOI: 10.1109/VETECS.2009.5073781 (会议/第一作者)
  7. **Y. Ma** and M. Pätzold, “Performance analysis of wideband sum-of-cisoids-based channel simulators with respect to the bit error probability of DPSK-OFDM systems”, Proc. IEEE 69th Vehicular Technology Conference, VTC 2009-Spring, Barcelona, Spain, Apr. 2009, pp. 1 – 6, Accession number: 20094212375198 (EI检索会议/第一作者)
  8. **Y. Ma** and M. Pätzold, “A wideband one-ring MIMO channel model under non-isotropic scattering conditions”, Proc. 67th IEEE Vehicular Technology Conference, VTC2008-Spring, Singapore, May 2008, pp. 424 – 429, Accession number: 20083111407173. (会议/第一作者)
  9. **Y. Ma** and M. Pätzold, “Wideband two-ring MIMO channel models for mobile-to-mobile communications”, Proc. 10th International Symposium on Wireless Personal Multimedia Communications, WPMC 2007, Jaipur, India,

Dec. 2007 pp. 380 – 384. (EI检索会议/第一作者)

10. **Y. Ma** and M. Pätzold, "Performance comparison of space-time coded MIMO-OFDM systems using different wideband MIMO channel models", Proc. 4th IEEE International Symposium on Wireless Communication Systems, ISWCS 2007, Trondheim, Norway, Oct. 2007, pp. 762 – 766, Accession number: 20082811368311 (EI检索会议/第一作者)
11. **Y. Ma**, D. F. Yuan, and, H. Zhang, "Fountain codes and applications to reliable wireless broadcast systems", in Proc. 2006 IEEE Information Theory Workshop (ITW'06), Chengdu, China, Oct. 2006. DOI: 10.1109/ITW2.2006.323758 (会议/第一作者)

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