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陈立

• 基本情况

性别:	男	暂无图片
研究方向:	编码理论及其应用; 宽带/超宽带无线通信理论与技术; 通信理论与通信信号处理;	
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• 详细介绍

陈立, 副教授, 硕士生导师, MIEEE, 中山大学“百人计划”引进人才, 省“千百十工程”人才培养对象, 中国电子学会信息论分会委员, 中国电子学会高级会员

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研究兴趣:

信道编码与信息论, 无线通信系统, 协助式通信

工作经历:

- 2011.7 - 今 中山大学信息科学与技术学院 副教授
- 2010.2 - 2011.7 中山大学信息科学与技术学院 讲师
- 2008.3 - 2010.1 英国 Newcastle University, Research Associate
- 2007.3 - 2008.2 英国 Newcastle University, Research Assistant

教育经历:

2004.10 - 2008.12 英国 Newcastle University, 博士, PhD in mobile communications engineering

由英国国家 Overseas Research Scholarship 全额资助, 导师: Prof. Rolando Carrasco (Emeritus Professor of Newcastle University, IEE Fellow)

Thesis: Design of an efficient list decoding system for Reed-Solomon and algebraic-geometric codes.

2003.9 - 2004.9 英国 Newcastle University, 硕士, MSc in Communications and Signal Processing, with Distinction

1999.9 - 2003.6 中国暨南大学, 学士, BSc in Applied Physics

承担项目:

'高移动性宽带无线通信网络重点基础理论研究', 国家973计划项目, 科研骨干, 2012.1 - 2016.12; 参与团队: 中山大学, 西南交通大学, 清华大学, 上海交通大学, 浙江大学和西安电子科技大学;

'对未来存储系统编码译码技术的研究', 国家自然科学基金, 项目编号61001094, 项目负责人, 2011.1 - 2013.12;

'自适应列表译码系统的研究', 广东省自然科学基金, 项目编号10451027501005078, 项目负责人, 2010.10 - 2012.10;

'代数几何码的研究与应用', 中山大学青年教师培育基金, 项目负责人, 2010.10 - 2013.10;

教育部留学回国人员科研启动基金, 项目负责人, 2012.10-2014.10;

'Node cooperation for fixed wireless access', 英国 EPSRC 资助项目, 项目编号EP/E012108/1, 项目承担单位: 英国纽卡斯尔大学, 英国剑桥大学, 研究员, 2007.3 - 2010.2.

学术兼职:

Visiting Lecturer of Newcastle University

Publicity co-chair of IETICT 2013;

Organization co-chair of ICCT 2012;

TPC member of IEEE MultiCom 2012, IEEE WCSP 2012 and IEEE WCNC 2013;

Section Chair for 2009 IEEE WCNC, IEEE CSNDSP 2010;

曾获奖励:

2012年中山大学青年教师授课大赛二等奖

2012 IEEE ICCT 最佳论文奖

2006 英国 Newcastle University Postgraduate Conference, 最佳演讲奖

2005 英国 Newcastle University Postgraduate Conference, 最佳海报奖

2005 英国政府 Overseas Research Scholarship 奖学金

教授课程:

电路与模拟电子技术, 电路基础

发表著作:

书本与章节:

L. Chen and R.A. Carrasco, Chapter 5 List Decoding, in Book: Non-binary error control coding for wireless communications and data storage, Wiley, 2008, ISBN 978-0-470-51819-9.

L. Chen, List decoding of Reed-Solomon and algebraic-geometric codes: decoding principles, complexity reduction and an engineering insight into the system, Lambert Academic Publishing (LAP), 2009, ISBN-13 978-3838321554/3.

国际期刊

L. Chen, S. Y. Tang and X. Ma, Progressive algebraic soft-decision decoding of Reed-Solomon codes, IEEE Trans. Communications, to appear.

L. Chen, Iterative soft-decision decoding of Hermitian codes, IEEE Trans. Communications, to appear.

S. Y. Tang, L. Chen and X. Ma, Progressive list-enlarged algebraic soft decoding of Reed-Solomon codes, IEEE Communications Letters, vol. 16 (6), pp. 901-904, Jun. 2012.

L. Chen, R.A. Carrasco and I.J. Wassell, Distributed amplify-and-forward cooperations through message partitioning, IEEE Trans. Vehicular Technology, vol. 60 (7), Sept, 2011, pp.3054-3065.

L. Chen, R.A. Carrasco and I.J. Wassell, Opportunistic nonorthogonal amplify-and-forward cooperative communications, IEE Electronic Letter, vol. 47 (10), May, 2011. (feature article of the current issue).

L. Chen, R.A. Carrasco and I.J. Wassell, Distributed amplify-and-forward cooperation while maintaining transmission freedom, American Journal of Engineering and Applied Science, vol. 4 (4), 2011, pp. 607-616.

L. Chen and R.A. Carrasco, Soft-decoding of algebraic-geometric codes using the Koetter-Vardy algorithm, IEE Electronic Letters, vol 45 (25), 2009.

L. Chen, R.A. Carrasco and M. Johnston, Soft-decision list decoding of Hermitian codes, IEEE Trans. Communications, vol. 57 (8), Aug, 2009, pp. 2169 - 2176.

L. Chen, R.A. Carrasco, S. LeGoff and I.J. Wassell, Comparative analyses of coded cooperative schemes, Mediterranean Journal of Computer and Networks, Volume 5, No. 3, July, 2009. ISSN: 1744-2400.

L. Chen, R.A. Carrasco and M. Johnston, Reduced complexity interpolation for list decoding of Hermitian codes, IEEE Trans. Wireless Communications, 2008, 7(11), pp.4353-4361.

L. Chen, R.A. Carrasco and E.G. Chester, Performance of Reed-Solomon codes using the Guruswami-Sudan algorithm with improving interpolation efficiency, IEE Proc. Communications, 2007, vol. 1 (2), pp.241-250.

L. Chen, R.A. Carrasco and M. Johnston, List decoding performance of algebraic-geometric codes, IEE Electronic Letters, 2006, 42.

国际会议

L. Chen, Improved soft-decision decoding of RSCC codes, IEEE Wireless Communications and Networking Conference (WCNC), Apr. 2013, Shanghai, China, to appear.

J. Zhang, C. Zhao, L. Chen and X. Ma, A progressive interpolation approach for Guruswami-Sudan algorithm, the 14th IEEE International Conference on Communication Technology (ICCT), Nov, 2012, Chengdu, China. (best paper award).

L. Chen, Iterative soft-decision decoding of Hermitian codes, IEEE Information Theory Workshop (ITW), Lausanne, Switzerland, Sept. 2012.

L. Chen, R.A. Carrasco and I.J. Wassell, Cooperative communications with opportunistic nonorthogonal amplify-and-forward relaying, the 75th IEEE Vehicular Technology Conference (VTC)-Spring, May, 2012, Yokohama, Japan.

L. Chen, Opportunistic cooperative communications with Reed-Solomon convolutional concatenated codes, the 13th IEEE International Conference on Communication Technology (ICCT), Sept, 2011, Jinan, China.

L. Chen, R.A. Carrasco and I.J. Wassell, Distributed amplify-and-forward cooperation with maintaining transmission freedom, the 7th IEEE International Symposium of Communication Systems, Networks and Digital Signal Processing (CSNDSP), 2010, Newcastle, UK.

V.S. Ganepola, R.A. Carrasco, L. Chen and I.J. Wassell, The stability of LDPC codes over GF(q) with higher order modulation schemes, the 7th IEEE International Symposium of Communication Systems, Networks and Digital Signal Processing (CSNDSP), 2010, Newcastle, UK.

L. Chen, R.A. Carrasco and I.J. Wassell, Distributed Amplify-and-Forward with Ring-TCM codes, the 6th IEEE Consumer Communication and Networking Conference (CCNC), 2010, Las Vegas, USA.

V. S. Ganepola, R. A. Carrasco, I. J. Wassell, S. LeGoff and L. Chen, Low complexity coded cooperative scheme using non-binary LDPC codes, Proc. the 10th International Symposium of Communication Theory and Applications (ISCTA), 2009, Ambleside, Lake district, UK.

L. Chen, R.A. Carrasco and I.J. Wassell, Amplify-and-Forward Relaying with Ring-TCM codes, Proc. the 10th International Symposium of Communication Theory and Applications (ISCTA), 2009, Ambleside, Lake district, UK.

L. Chen, R.A. Carrasco, S. LeGoff and I.J. Wassell, Cooperative amplify-and-forward with trellis coded modulation, Proc IEEE Wireless Communications and Networking Conference (WCNC) 2009, Budapest, Hungary.

L. Chen, R.A. Carrasco, S. LeGoff and I.J. Wassell, Comparative investigation of coded cooperative communication systems, Proc. 6th IEEE International Symposium of Communication Systems, Networks and Digital Signal Processing (CSNDSP), 2008, Graz, Austria.

L. Chen and R.A. Carrasco, Efficient list decoder for algebraic-geometric codes, Proc. 9th International Symposium of Communication Theory and Applications (ISCTA), 2007, Ambleside, Lake district, UK.

L. Chen, R.A. Carrasco, M. Johnston and E.G. Chester, Efficient factorisation algorithm for list decoding algebraic-geometric and Reed-Solomon codes, Proc IEEE International Conference of Communications (ICC) 2007, Glasgow, UK.

L. Chen, R.A. Carrasco and E.G. Chester; Efficient list decoding of algebraic-geometric codes, Postgraduate Conference of Newcastle University, Merz Court, Jan, 2007.

L. Chen, R.A. Carrasco and E.G. Chester, Decoding Reed-Solomon codes using the Guruswami-Sudan algorithm, Proc. 5th IEEE International Symposium of Communication Systems, Networks and Digital Signal Processing (CSNDSP), 2006, Patras, Greece.

L. Chen, R.A. Carrasco and E.G. Chester, Decoding Reed-Solomon codes using the Guruswami-Sudan algorithm, Postgraduate Conference of Newcastle University, Merz Court, Jan, 2006 (winning the best presentation prize of the conference)

L. Chen, R.A. Carrasco and E.G. Chester, Design of new algebraic-geometric codes constructed from different classes of curves, Postgraduate Conference of Newcastle University, Merz Court, Jan, 2005. (winning the best poster prize of the conference).

学术报告

'Algebraic-geometric code and its soft decision decoding algorithms'

- The 17th Chinese International Symposium on Information Theory, Xidian University, Xi'an, China, Nov, 2010.

'Algebraic-geometric code and modernised algebraic decoding'

- The Institute of Network Coding, The Chinese University of Hong Kong, Hong Kong, China, Jan, 2011.

'Progressive algebraic soft-decision decoding of Reed-Solomon codes'

- The 18th Chinese International Symposium on Information Theory, Hangzhou, China, Nov, 2011.

'Spectrum efficient cooperative communications: a message partitioning based approach'

- The postgraduate research forum, School of Information Science and Technology, Sun Yat-sen University, Guangzhou, China, Jul, 2012.

- School of Electrical and Electronic Engineering, Newcastle University, Newcastle-upon-Tyne, United Kingdom, Aug, 2012.

'Iterative soft-decision decoding of Hermitian codes'

- The Institute of Network Coding, The Chinese University of Hong Kong, Hong Kong, China, Aug, 2012.

- School of Electrical and Electronic Engineering, Newcastle University, Newcastle-upon-Tyne, United Kingdom, Aug, 2012.

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