



Dr. Kun Ma

Shandong Provincial Key Laboratory of Network Based Intelligent Computing

University of Jinan

P.R. China

Email: ise_mak@ujn.edu.cn or kun.ma.cn@ieee.org

Web: <http://kunma.net>

Short Biography

Dr. Kun Ma received his Ph.D degree in Computer Software and Theory from Shandong University, Jinan, Shandong, China, in 2011. He is an Associate Professor (University Professor) in School of Information Science and Engineering, University of Jinan, China and Shandong Provincial Key Laboratory for Network based Intelligent Computing. He presides 1 National Natural Science Foundation of China (NSFC), and 4 provincial scientific research projects. He has authored and coauthored over 100 research publications in peer-reviewed reputed journals and conference proceedings. His entire publications have been cited over 530 times (Google Scholar). Five of his papers have been cited over 20 times. The latest Google h-index of his publications is 13. He has served as the program committee member of various international conferences and reviewer for various international journals. He is the Co-Editor-in-Chief of International Journal of Computer Information Systems and Industrial Management Applications (IJCISIM). He is the managing editor of Journal of Information Assurance and Security (JIAS). He is the editorial board member of International Journal of Grid and Utility Computing and International Journal of Intelligent Systems Design and Computing. He is the guest editor of International Journal of Grid and Utility Computing ,Informatica, International Journal of Communication Networks and Distributed Systems, Recent Patents on Computer Science, and International Journal of Services Technology and Management. He is one evaluation expert of Shandong Software Industry Association. His research interests include stream data processing, data intensive computing, and big data management. He has obtained 12 patents for inventions.

Education

1 Shandong University, Jinan, P.R.China

Ph.D. in Computer Science and Technology (2011)

Thesis topic: Research on Some Key Issues in Model and Model Transformation Approach in Model-Driven Architecture

2 University of Jinan, Jinan, P.R.China

Master of Computer Application and Technology (2007)

Thesis topic: Implementation of Topological Discovering and Network Monitoring in Campus

Network

3 University of Jinan, Jinan, P.R.China

Bachelor of Computer Science and Technology (2004)

Thesis topic: Research of network management and monitoring based on open source

Publications (not complete)

Journal Papers

- [1]. Yufeng Wang, Kun Ma*, Laura Garcia-Hernandez, Jing Chen, Zhihao Hou, Ke Ji, Zhenxiang Chen, Ajith Abraham, "A CLSTM-TMN for Marketing Intention Detection," *Engineering Applications of Artificial Intelligence*, 2020, 91 (5): 1-9
- [2]. Zhe Yang, Kun Ma, Xiaoli Zhang, Lizhen Cui, Bo Yang, "RSCVC: Row-based Semantic Cache With Incremental Versioning Consistency," *Concurrency and Computation: Practice and Experience*, 2020, 32 (17): e5672:1-14
- [3]. Ziqiang Yu, Ajith Abraham, Xiaohui Yu, Yang Liu, Kun Ma*, Jing Zhou, "Improving the effectiveness of keyword search in databases using query logs," *Engineering Applications of Artificial Intelligence*, 2019, 81 (5): 169-179 (JCR Q2)
- [4]. Kun Ma, Ziqiang Yu, Ke Ji, and Bo Yang, "Stream-Based Live Public Opinion Monitoring Approach with Adaptive Probabilistic Topic Model," *Soft Computing*, 2018, 1-20 (JCR Q3, CCF C)
- [5]. Ke Ji, Zhenxiang Chen, Runyuan Sun, Kun Ma, Zhongjie Yuan, Guandong Xu, "GIST: A Generative Model with Individual and Subgroup-based Topics For Group Recommendation," *Expert Systems with Applications*, 2018, 94 (5): 81-93 (JCR Q2)
- [6]. Kun Ma, Bo Yang, and Ziqiang Yu, "Optimization of Stream-based Live Data Migration Strategy in the Cloud," *Concurrency and Computation: Practice and Experience*, 2018, 30 (12): e4293: 1-18 (CCF C)
- [7]. Kun Ma, Bo Yang, Zhe Yang, and Ziqiang Yu, "Segment Access-aware Dynamic Semantic Cache in Cloud Computing Environment," *Journal of Parallel and Distributed Computing*, 2017, 110 (12): 42-51 (CCF B)
- [8]. Ma, K. and Yang, B., "Stream-based Live Data Replication Approach of In-memory Cache," *Concurrency and Computation: Practice and Experience*, 2017, 29 (11): e4052: 1-9 (CCF C)
- [9]. Ma, K. and Yang, B., "Stream-based Live Entity Resolution Approach with Adaptive Duplicate Count Strategy," *International Journal of Web and Grid Services*, 2017, 13 (3): 351-373 (JCR Q4)
- [10]. Ma, K. and Yang, B., "Large-scale Schema-free Data Deduplication Approach with Adaptive Sliding Window using MapReduce," *The Computer Journal*, 2015, 58 (11): 3187-3201 (CCF B)
- [11]. Ma, K., and Abraham, A., "Introducing Versioning-based Software Online Upgrade Framework over a Peer-to-Peer Network," *Computing and Informatics*, 2015, 34 (6): 1357-1373 (JCR Q4)

Conference Papers

1. Kun Ma, Xuwei Niu, Ziqiang Yu, Ke Ji, POMon: From Simple Keyword Matching to Stream-based Live Probabilistic Topic Matching, *Proceedings of 2018 IEEE Ubiquitous Intelligence & Computing (UIC 2018)*, Guangzhou, China, Oct. 8-12, 2018, 1189-1192
2. Kun Ma, Ziqiang Yu, Ke Ji, Bo Yang, Stream-based Live Probabilistic Topic Computing and

Matching, Proceedings of the 17th International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP 2017), Part II, Lecture Notes in Computer Science, 10393, Helsinki, Finland, Aug. 21-23, 2017, 1-10 (EI: , INSPEC:, WOS:, CCF C类)

3. Ma, K., Tang, Z., Zhong, J., Yang, B., LPSMon: A Stream-based Live Public Sentiment Monitoring System, Proceedings of The 17th International Conference on Web-Age Information Management, Part II, Lecture Notes in Computer Science , Nanchang, China, June 3-5, 2016, 9659: 534-536 (EI: 20162702570719, WOS:000389411500045, CCF C类)
4. Ma, K., Yang, B., Access-aware In-memory Data Cache Middleware for Relational Databases, Proceedings of 17th IEEE International Conference on High Performance Computing And Communications (HPCC 15), New York, USA, August 24 - 26, 2015, 1506-1511 (EI: 20161402178126, INSPEC:15635096, WOS:000380408100247, CCF C类)
5. Ma, K., Yang, B., and Chen, G., DOI Proxy Framework for Automated Entering and Validation of Scientific Papers, Proceedings of the 14th International Conference on Web-Age Information Management (WAIM 2013), Lecture Notes in Computer Science, Qinhuangdao, China, June 14-16, 2013, 2013, 7923: 799-801 (EI: 20132916507664, CCF C类)

Patent for Invention (in Chinese)

1. 发明专利（申请号：201710248537.3, 2017-04-17）,授权日期：2019-10-01. 一种概率主题计算与匹配的舆情监测方法及系统. 申请人：济南大学, 发明人：马坤、周劲、于自强、纪科.
2. 发明专利（申请号：201710284487.4, 2017-04-25）,授权日期：2020-05-05. 基于低水位滑动时间窗口的离群数据发现方法及系统. 申请人：济南大学, 发明人：马坤、周劲、于自强、纪科
3. 发明专利（申请号：201510056231.9, 2015-02-03, 公开(公告)号：CN104572505A, 2015-04-29）,进入实质审查日期：2015-05-13, 授权日期：2017-05-17. 一种保证海量数据缓存最终一致性的系统及方法. 申请人：济南大学, 发明人：马坤. (granted).
4. 发明专利（申请号：201510055798.4, 2015-02-03, 公开(公告)号：CN104598396A, 2015-05-06）,进入实质审查日期：2015-05-13, 授权日期：2017-06-16. 一种保证海量数据缓存实时性和一致性的系统及方法. 申请人：济南大学, 发明人：马坤. (granted).
5. 发明专利（申请号：201310139277.8, 2013-04-19, 公开(公告)号：CN103197932A, 2013-07-10）,进入实质审查日期：2013-07-17, 授权日期：2016-04-19. 一种开发无模式文档型数据库应用的业务组件模型. 申请人：济南大学, 发明人：马坤, 杨波, 陈广伟. (granted).
6. 发明专利（申请号：201310239673.8, 2013-06-18, 公开(公告)号：CN103279361A, 2013-09-04）,进入实质审查日期：2013-09-18, 授权日期：2016-01-27. 小书签驱动文献统一分享装置与方法. 申请人：济南大学, 发明人：马坤, 张磊, 陈贞翔. (granted).
7. 发明专利（申请号：201310716863.4, 2013-12-23, 公开(公告)号：CN103631972A, 2014-03-12）,进入实质审查日期：2014-03-19, 授权日期：2016-09-21. 一种列访问感知的数据缓存方法及系统. 申请人：济南大学, 发明人：马坤, 杨波. (granted).
8. 发明专利（申请号：201210309118.3, 2012-08-27, 公开(公告)号：CN102868731A, 2013-01-09）,进入实质审查日期：2013-01-23, 授权日期：2014-12-17. 软件在线升级及加速下载的方法和装置. 申请人：济南大学, 发明人：马坤, 杨波. (granted).
9. 发明专利（申请号：201210307910.5, 2012-08-27, 公开(公告)号：CN102833131A, 2012-12-19）,进入实质审查日期：2013-01-09, 授权日期：2016-05-25. 一种远程数据库响应

性能测试比较系统及方法. 申请人: 济南大学, 发明人: 陈贞翔, 王可可, 杨波, 马坤, 刘鹏. (granted).

10. 发明专利 (申请号: 201210536616.1, 2012-12-13, 公开(公告)号: CN102999629A, 2013-03-27), 进入实质审查日期: 2013-04-03, 授权日期: 2016-01-13. 一种关系数据库到无模式数据库异步转换系统及方法. 申请人: 济南大学, 发明人: 马坤, 杨波, 陈广伟. (granted).
11. 发明专利 (申请号: 201710248537.3, 2017-04-17, 公开(公告)号: ,), 进入实质审查日期: 2017-08-30, 授权日期: 0000-00-00. 一种概率主题计算与匹配的舆情监测方法及系统. 申请人: 济南大学, 发明人: 马坤、周劲、于自强、纪科. (pending).
12. 发明专利 (申请号: 201710284487.4, 2017-04-25, 公开(公告)号: ,), 进入实质审查日期: 2017-09-13, 授权日期: 0000-00-00. 基于低水位滑动时间窗口的离群数据发现方法及系统. 申请人: 济南大学, 发明人: 马坤、周劲、于自强、纪科. (pending).

Editorial Board

- [1]. (2010 -), Managing Editor, Journal of Information Assurance and Security (JIAS, 1554-1010).
- [2]. (2013-), Co-Editor-in-Chief, International Journal of Computer Information System and Industrial Management Application (IJCSIM, 2150-7988).
- [3]. (2013), Guest Editor, Special Issue on: "Innovative Applications for the Cloud" (Int. J. of Grid and Utility Computing, IJGUC, 1741-847X).
- [4]. (2014), Guest Editor, Special Issue on: "Large Data Management in the Cloud" (Informatica, 0350-5596).
- [5]. (2015), Guest Editor, Special Issue on: "Datacenter and Big data in Cloud Computing" (International Journal of Computational Science and Engineering, IJCSE, 1742-7185).
- [6]. (2015), Guest Editor, Special Issue on: "Datacenter and Big data in Cloud Computing" (International Journal of High Performance Computing and Networking, IJHPCN, 1740-0562).
- [7]. (2016), Guest Editor, Special Issue on: "Recent Advances in Big Data Management" (Recent Patents on Computer Science, RPCSeng, 2213-2759).
- [8]. (2016), Guest Editor, Special Issue on: "Big Data Management in the Cloud" (International Journal of Services Technology and Management, IJSTM, 1460-6720).
- [9]. (2017), Guest Editor, Special Issue on: "Emerging Trends, Applications and Services in Communication Networks" (Int. J. of Communication Networks and Distributed Systems, IJCND, 1754-3916).