

# 华中师范大学计算机科学系主任谭连生教授科研论文一览

[作者] 华中师范大学计算机科学系

[单位] 华中师范大学计算机科学系

[摘要] 华中师范大学计算机科学系主任谭连生教授科研论文一览。

[关键词] 华中师范大学, 计算机科学系, 主任, 教授, 科研论文

谭连生教授共发表 54 篇论文, 其中 9 篇 SCI 论文、22 篇 EI 论文, 6 篇 ISTP 论文

## 在国际核心期刊上发表的论文

[1] Li ansheng Tan (谭连生), A. C. Pugh and Mi n Yi n, “ Rate-Based Congesti on Control in ATM Swit ching Networks Using a Recursive Digital Filter ”, Control Engineering Practice (Special Issue on Control Methods for Telecommunication Networks), vol. 11, no. 10, pp. 1171-1181, 2003. (SCI、EI 收录)

[2] Li ansheng Tan (谭连生), A. C. Pugh, “ Non-standard H<sub>∞</sub> Control problem: a generalized chain-scattering representation approach ”, International Journal of Control, vol. 75, no. 11, pp. 775-783, 2002. (SCI、EI 收录)

[3] Li ansheng Tan (谭连生), A. C. Pugh, “ Spectral structures of the generalized companion form and applications ”, Systems and Control Letters, vol. 46, no. 2, pp. 75-84, 2002. [in pdf] (SCI、EI 收录)

[4] Li ansheng Tan (谭连生), A. C. Pugh, “ A novel method to determine the finite and infinite frequency structure of a rational matrix ”, IMA Journal of Mathematical Control and Information, vol. 18, pp. 129-151, 2001. in [pdf] (EI 收录)

[5] S. H. Yang, Li ansheng Tan (谭连生), C. H. He, “ Automatic verification of safety interlock systems for industrial processes ”, Journal of Loss Prevention in the Process Industries, 2001, 14, 379-386 (SCI、EI 收录) .

[6] A. C. Pugh, Li ansheng Tan (谭连生), “ A generalized chain-scattering representation and its algebraic system properties ”, IEEE Transactions on Automatic Control, 2000, vol. 45, no. 5, pp. 1002-1007. (SCI, EI 收录) in [pdf]

[7] Li ansheng Tan (谭连生), “ On determination of the impulsive solutions and impulsive properties to linear non-homogeneous matrix differential equations ”, Acta Mathematica Scientia, 2000, vol. 20, pp. 261-272. (SCI 收录)

[8] Li ansheng Tan (谭连生), Structural and Behavioral Analyses to Linear Multivariable Control Systems, PhD Thesis, Loughborough University, UK, 1999 (英国大英图书馆收藏)

[9] Li ansheng Tan (谭连生), A. C. Pugh, “ A note on the solution of regular PMDs ”, International Journal of Control, 1999, vol, 72, no.14, pp. 1235-1248. in [pdf] (SCI 收录)

[10] Li ansheng Tan (谭连生), “ On disturbance localization in singular systems with direct feedthrough ”, International Journal of Systems Science, 1995, vol. 26, no. 11,

pp. 2235-2244(SCI、EI 收录).

[11] Yijiao Yu, Qin Liu and Liansheng Tan( 谭连生), “ Application server performance control with SNMP and control methods, ” Lecture Notes in Computer Science, Grid and Cooperative Computing, Springer-Verlag Heidelberg, vol. 3033, 2004, pp. 352-359. (EI 收录)

## 在国际学术会议论文集上发表的论文

[12] C. Dai, S. H. Yang, and Liansheng Tan ( 谭连生), “ An approach for controller fault detection ”, in Proceedings of the 5th World Congress on Intelligent Control and Automation, Hangzhou, PR China, June 15-19, 2004, pp. 1637-1641. (EI 收录)

[13] Yijiao Yu, Liansheng Tan ( 谭连生) and Qin Liu, “ Automated evaluation algorithm of Network controller ”, Proceedings of the Second International Conference on Machine Learning and Cybernetics, Xi ' an, 2-5 Nov. , 2003, pp. 686-691. (EI 收录)

[14] Liansheng Tan ( 谭连生), Qin Liu and S. H. Yang, “ Congestion control of high speed computer networks: A PID method ”, in Proceedings of European Control Conference (ECC ' 03), 1-4, September 2003, Cambridge, UK. (EI 收录)

[15] Liansheng Tan ( 谭连生), Min Yin, Li Chen, “ A New Framework for Congestion Control of Integrated Services in Computer Networks ”, Proceedings of 2003 International Conference on Communication Technology, Beijing University of Posts and Telecommunications Press, IEEE Catalog Number: 03EX659, April 9-11, 2003, Vol. 1. Pp. 361-367.

[16] Liansheng Tan ( 谭连生), Min Yin, “ On rate-based PID congestion control for high-speed computer communication networks ”, Proceedings of the International Conference on Telecommunications 2002, Publishing House of Electronics Industry, Beijing, pp. 737-741, 2002.

[17] Yijiao Yu, Qin Liu, Liansheng Tan ( 谭连生), Debao Xiao, “ A Novel Automated Fault Identification Approach in Computer Networks Based on Graph Theory ”, Proceedings of 2003 International Conference on Communication Technology, Beijing University of Posts and Telecommunications Press, IEEE Catalog Number: 03EX659, April 9-11, 2003, Vol. 1, pp. 167-173.

[18] Yijiao Yu, Qin Liu, Liansheng Tan ( 谭连生), “ Solving TSP with Distributed Genetic Algorithm and CORBA ”, Proceedings of 2002 International Symposium on Distributed Computing and Applications to Business, Engineering and Science, Wuhan University of Technology Press, Wuxi, China, December 20-22, 2002, Vol. 1, pp. 77-80.

[19] Yijiao Yu, Qin Liu, Liansheng Tan ( 谭连生) and Debao Xiao, “ Automated Network Management with SNMP and Control Theory ”, Proceedings of 2002 International Symposium on Distributed Computing and Applications to Business, Engineering and Science, Wuhan University of Technology Press, Wuxi, China, December 20-22, 2002, Vol. 1, pp. 260-264.

[20] Liansheng Tan ( 谭连生), S. H. Yang, “ Rate-based congestion controllers for high-speed computer networks ”, International Federation of Automatic Control 15th IFAC World Congress, Barcelona, Spain, July 21-26, 2002.

- [21] Liansheng Tan (谭连生), M. Yin, and S. H. Yang, "A rate-based PI congestion control method for the stabilization of high-speed computer communication networks", Proceedings of 2002 Chinese Automation and Computer Science Conference in the UK, Manchester, UK, Sept., 2002, Pacilantic International Ltd., Oxford, pp.75-80.
- [22] S. H. Yang, Liansheng Tan (谭连生), and X. Chen, "Requirement specification and architecture design for Internet-based control systems", in the Proceedings of the 26th Annual International computer software and applications conference, Oxford, England, August 2002, pp. 75-80. (EI、ISTP 收录)
- [23] S. H. Yang, X. Chen, Liansheng Tan(谭连生), "An e-Automation system for process industries", Proceedings of 2002 Chinese Automation and Computer Science Conference in the UK, Manchester, UK, Sept., 2002, Pacilantic International Ltd., Oxford.
- [24] Liansheng Tan (谭连生), Qin Liu, Li Chen and Jie Li, "A feedback congestion control method to regulate the ABR service rate in high speed ATM networks", Proceedings of Networks, Parallel and Distributed Processing, and Applications, October 2- 4, 2002, Tsukuba, Japan, pp. 132-137.
- [25] Liansheng Tan (谭连生), S. H. Yang, Min Yin and Fuzhe Zhao, "Analysis of rate-based congestion control in ATM switching networks", Fourth International ICSC Symposium Soft Computing and Intelligent Systems for Industry, Paisley, Scotland, UK, June 26-29, 2001, pp. 108, CD-ROM, ISBN 3-906454-27-4.
- [26] Liansheng Tan (谭连生), Oliver Yang, "A class of end-to-end rate-based congestion controllers for high-speed communication networks", Proceedings of Future Telecommunications Conference, Beijing, 2001, pp. 94-98.
- [27] Liansheng Tan (谭连生), "Congestion Control Algorithms For ATM Switching Networks", Proceedings of the Sixth International Conference for Young Computer Scientist, International Academic Publishers, 2001, pp. 159-164. (EI、ISTP 收录)
- [28] Liansheng Tan (谭连生) and Shuanghua Yang, "Chain-scattering representation approach: certain applications", Proceedings of 2000 Chinese Automation and Computer Science Conference in the UK, Loughborough, UK, Sept., 2000, Pacilantic International Ltd, Oxford, pp. 25-28.
- [29] Liansheng Tan (谭连生), A. C. Pugh and G. E. Taylor, "Properties of generalized chain-scattering representation", Proceedings of the American Control Conference, San Diego, California, June 1999, pp.1319-1323. (EI 收录)
- [30] A. C. Pugh, Liansheng Tan (谭连生), "Properties of the generalized companion form and application to the solution of regular PMDs", Proceedings of the American Control Conference, San Diego, California, June 1999, pp.1324-1328. (EI 收录)
- [31] A. C. Pugh, Liansheng Tan (谭连生) and M. Hou, "A complete solution of linear non-homogeneous matrix differential equations and impulse-free initial values", Proceedings of the 6th IEEE Mediterranean Conference on Control and Automation, Theory and Practice of Control Systems, Word Scientific, 1999, pp.678-683.
- [32] Liansheng Tan (谭连生), A. C. Pugh, and Wentao Fan, "An extended H<sub>∞</sub>-control problem", Proceedings of 1999 Chinese Automation Conference in the UK, Derby, UK, Sept., 1999, Pacilantic International Ltd, Oxford, pp.125-130.
- [33] Liansheng Tan (谭连生), "On the admissible boundary conditions and solutions of two-dimensional discrete singular systems with variable coefficients",

Proceedings of 1998 Chinese Automation Conference in the UK, Leicester, UK, Sept. 1998, Pacilantic International Ltd, Oxford, pp. 219-225.

## 在国内核心期刊、学术会议上发表的论文

- [34] Liansheng Tan (谭连生), Qin Liu, and Yijiao Yu, "A distributed self-tuning explicit rate controller for multicast flows", *Journal of Software*, vol. 15, no.6, 2004, pp. 940-948.
- [35] Liansheng Tan (谭连生), Min Yin, "A rate-based PD congestion controller for high-speed computer communication networks", *ACTA AUTOMATICA SINICA*, Vol. 29, No. 1, Jan., 2003, pp. 54-66. (EI 收录)
- [36] 谭连生,尹敏, "计算机通讯网络中基于速率的端对端拥塞控制",《通信学报》,vol. 24, no. 8, 2003, pp. 37-44.
- [37] 谭连生,尹敏, "计算机通讯网络的拥塞控制:一种基于速率的PI控制方法",《电子学报》,2002年,第30卷,第8期,pp. 1138-1141. (EI 收录)
- [38] 尹敏,谭连生,杨双华,赵甫哲, "基于Internet的远程过程控制系统设计",《计算机工程与应用》,2002年,第38卷,第21期,pp. 254-256.
- [39] 赵甫哲,谭连生,尹敏, "关于TCP拥塞控制的研究",《计算机工程》,2001年第27卷,第8期,pp. 97-103. (EI 收录)
- [40] 谭连生,范文涛, "奇异系统的输出稳定化通过一般状态反馈的可解性",《自动化学报》,1997, 23卷, 1期, pp. 64-67 (EI 收录)
- [41] 谭连生,范文涛, "多层细胞神经网络模型的一般状态解及动力值域估计",《系统工程理论与实践》, 97(5), pp. 7-11. (EI 收录)
- [42] 范文涛,谭连生, "The Disturbance Rejection in Singular Systems",《数学研究与评论》,1997年,第18卷,第4期,pp. 523-528.
- [43] Liansheng Tan (谭连生), "The disturbance localization problem for singular systems", *Acta Mathematica Scientia*, 1995, vol. 15, no. 3, pp. 241-246. (SCI 收录)
- [44] 谭连生, "奇异系统的正常最小阶状态观测器",《数学物理学报》,1994年,第14卷,第2期.
- [45] 谭连生, "奇异系统的取消输出不变子空间和取消输出能控子空间",《系统工程理论与实践》,1994年,第14卷,第9期.
- [46] 谭连生, "奇异系统的能量受限的输出调节通过一般状态反馈的可解性",《控制理论与应用》,1993年,第10卷,第6期. (EI 收录)
- [47] 韦旦,谭连生,李德华, "利用一二阶常微分方程发现初等函数的复合函数和隐函数关系",《计算机杂志》,1993年,第21卷,第5期.
- [48] 谭连生, "奇异系统的输出稳定化",《全国青年管理科学与系统科学论文集》第2卷,湖南科学技术出版社,1993年5月.
- [49] 谭连生, "奇异系统的几种正常化途径",《系统工程》,1992年,第10卷,第3期.
- [50] 谭连生, "带有直接控制馈入的奇异系统的输出稳定化",全国控制理论及其应用年会论文集,1992年10月.
- [51] 谭连生, "奇异系统的强可约最小实现",《系统工程与决策》,华中理工大学出版社,1991年.
- [52] 谭连生, 赵甫哲, 刘芹, "基于Smith原则的计算机高速通信网络的拥塞控制",《计

计算机科学》，2003 年，第 30 卷，第 5 期，pp. 122-128.

[53] 尹敏，谭连生，“一类基于速率的 PD 拥塞控制方法”，《计算机工程》，2003 年第 29 卷，第 17 期，pp. 63-65.

[54] 刘芹，余一娇，谭连生，“一种利用 BP 神经网络的 Internet 流量预测算法”，2003 中国计算机大会论文集，清华大学出版社，pp. 1137-1142.

[http://cs.cnu.edu.cn/tls/kylw\\_cn.htm](http://cs.cnu.edu.cn/tls/kylw_cn.htm)