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| **Title**  | 　Prof. Dr. | **Name** | Duanjin ZHANG |                           |
| **Subject** | Information and Communication Engineering | **Research Interest** | Detection and filtering, Networked systems. |
| **E-mail**  | 　djzhang@zzu.edu.cn | **Tel** | 　+86 371 67781545 |
| **Educational Background** | Sep., 1995--Dec.,1998, Nanjing University of Science & Technology, Ph.D. in Control Theory and Engineering;Sep., 1986--Jan., 1988, Harbin Engineering University, M.S. in Automatic Control Theory and Applications;Sep., 1982--Jul., 1986, Northeastern University (China), B.Eng. in Electrical Engineering. |
| **Working Experiences** | Oct., 2006--Present, Zhengzhou University, School of Information Engineering, Professor;Oct., 2005--Sep., 2006, University of Duisburg-Essen (Duisburg Campus, Germany), AKS, Visiting Scholar;Dec., 2003--Sep., 2005, Zhengzhou University, School of Information Engineering, Professor;Dec., 2001--Nov., 2003, Zhengzhou University, School of Information Engineering, Associate Professor;Jul., 1999--Nov., 2001, South China University of Technology (Guangzhou), Postdoctoral Fellow; Jan., 1992--Aug., 1995, Zhengzhou University, Department of Electronic Engineering, Lecturer;Feb., 1988--Dec., 1991, Zhengzhou University, Department of Electronic Engineering, Teaching Assistant. |
| **Research Projects** | 1 **Principal Investigator**, *A Unified Approach to Fault Detection and Filtering for Networked Systems with High-speed Sampling*, supported by National Natural Science Foundation of China under Grant 61471323;2 **Principal Investigator**, *Delta Operator-based Fault Detection and Filtering under Network Environment*, supported by Key Program of Science Technology of Educational Department of Henan under Grant 14A120004;3 **Principal Investigator**, *Robust Design for Adaptive Inverse Control Systems using the Delta Operator*, supported by Henan Provincial Natural Science Foundation of China under Grant 0311011600;4 **Principal Investigator**, *Research on Delta Operator Approach to High-speed Signal Processing and Control*, supported by China Postdoctoral Science Foundation under Grant [2000]31. |
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| **Selected Publications** | [1]Yingqing Zhao and **Duanjin Zhang**, H-infinity fault detection for uncertain delta operator systems with packet dropout and limited communication, *Proc. 2017 American Control Conference,* 2017ACC, Seattle, USA, pp.4772-4777, 2017.[2]Jianxun Zhou and **Duanjin Zhang**, Robust fault detection of networked control systems with time-varying delay and random packet loss based on delta operator, *Proc. the 43rd Annual Conference of the IEEE Industrial Electronics Society,* IECON2017, Beijing, China, pp.3215-3220, 2017.[3]**Duanjin Zhang** and Yingqing Zhao, Fault detection for delta operator systems with packet dropout and limited communication, *Proc.14th International Conference on Control, Automation, Robotics and Vision*, ICARCV2016, Phuket, Thailand, Tu24.4, p.1-6, 2016.[4]Fan Xin and **Zhang Duanjin**, Robust H-infinity filtering for networked control systems with time-varying delay via delta operator, *Proc. 35th Chinese Control Conference,* CCC2016, Chengdu, China, p.7485-7490, 2016. [5]Xinyu Dong and **Duanjin Zhang**, Fault detection for networked systems with uncertain time-delay and packet dropout using delta operator, *Proc. IEEE 11th Int. Conf. Industrial Electronics and Applications*, ICIEA2016, Hefei, China, p.189-194, 2016.[6]Xinyu Dong and **Duanjin Zhang**, H-infinity fault detection observer design for networked control systems with packet dropout using delta operator, *Proc. 12th World Congress on Intelligent Control and Automation*, WCICA2016, Guilin, China, p.2547-2551, 2016. [7]Yu Cao, Minglei Gao and **Duanjin Zhang**, Fault detection for networked control systems with uncertain time-varying sampling periods, *Proc. 28th Chinese Control and Decision Conference,* CCDC2016, Yinchuan, China, p.2956-2960, 2016.[8]Xiaobei Gao and **Duanjin Zhang**, H-infinity filtering for networked control systems with limited communication via delta operator, *Proc. 12th World Congress on Intelligent Control and Automation*, WCICA2016, Guilin, China, p.339-343, 2016.[9]**Duanjin Zhang** and Xiaojing Jie, H-infinity filtering for network-based systems with time-varying delay, *Lecture Notes in Electrical Engineering*, vol.337, p.363-372, 2015.[10]**Duanjin Zhang** and Xue Liu, H-infinity filtering for delta operator formulated network-based systems with time-varying delay, *Proc. 27th Chinese Control and Decision Conference,* CCDC2015, Qingdao, China, p.6395-6400, 2015. [11]**Zhang Duanjin** and Liu Xue, H-infinity filtering for networked control systems with packet dropout using delta operator, *Proc. 2nd International Conference on Systems and Informatics*, ICSAI2014, Shanghai, China, p.654-658, 2014.[12]**Duanjin Zhang** and Hucheng Zhou, Fault detection of delta operator formulated networked control systems, *Proc.25th Chinese Control and Decision Conference*, CCDC2013, Guiyang, China, p.1039-1043, 2013. [13]Jianxun Zhou and **Duanjin Zhang**, Fault detection for Markovian jump systems with random packet dropout and delay using delta operator, *Proc. the 2017 Asian Control Conference,* ASCC2017, Gold Coast, Australia, 2017.(accepted)[14]Jie Gao and **Duanjin Zhang**, H-infinity fault detection with networked control systems with random delay via delta operator, *Proc. the 2017 Asian Control Conference,* ASCC2017, Gold Coast, Australia, 2017.(accepted) |