

# IET Control Theory & Applications

## Call for Papers

Submission Deadline: 30<sup>th</sup> September 2023 | Publication Date: Publication on Acceptance



Editor-in-Chief: Professor James Lam, The University of Hong Kong, Hong Kong, China

### Special Issue on:

Resilient Fuzzy Control Synthesis of Nonlinear Networked Systems Against Various Cyber-Attacks

Recent years have witnessed a growing interest towards nonlinear networked systems. Their field of application is immense, and many of these applications are safety-critical. This has triggered considerable attention to nonlinear networked systems in the presence of attacks, bringing the question of cyber-security into control theories. At present, the development of fuzzy control theory in depth and breadth is the inevitable research trend of highly complicated controlled objects, high control performance requirements and computer technology networking. In fact, recently, important advances have been made in the theory of resilient fuzzy control against attacks. In nonlinear networked systems, the common cyber-attacks on communication links include denial-of-service attack, false-data-injection attack, replay attack and so on.

The aim of this special issue is to highlight the most significant recent developments - advances - on the topics of systems under various cyber-attacks, to identify the most recent research directions, and to publicize this area to a wider audience.

Topics of interest include, but are not limited to:

- Theoretical studies on T-S fuzzy-model-based fuzzy control under various cyber-attacks (including denial-of-service attack / false-data-injection attack / replay attack)
- Developments of new attack-tolerant fuzzy control theories
- Convincing applications of anti-attack fuzzy logic
- Interval type-2 fuzzy systems various cyber-attacks
- Data-driven approach against various cyber-attack
- Fuzzy fault detection against various cyber-attacks
- Fuzzy sliding mode control against various cyber-attacks
- Fuzzy adaptive control against various cyber-attacks

The Open Access Article Processing Charge (APC) for accepted articles can be found [here](#). For further information on APCs, and support for APCs including Wiley's institutional agreements and Research4Life initiative which offers waivers and automatic discounts for certain countries, please see our [FAQs](#). Please submit your paper via [ScholarOne](#), and for more information about the journal please visit our [website](#) and read our [Author Guide](#).

### Guest Editors:

**Prof. Xiangpeng Xie (Lead)**  
Nanjing University of Posts and  
Telecommunications China  
E: [xiexp@njupt.edu.cn](mailto:xiexp@njupt.edu.cn)

**Prof. Tae H. Lee**  
Jeonbuk National University, Republic  
of Korea  
E: [fesuselee@gmail.com](mailto:fesuselee@gmail.com)

**Prof. Jianwei Xia**  
Liaocheng University, China  
E: [njustxjw@126.com](mailto:njustxjw@126.com)

**Prof. Reinaldo Martinez Palhares**  
Federal University of Minas Gerais,  
Brazil  
E: [rpalhares@ufmg.br](mailto:rpalhares@ufmg.br)

**Prof. Anh-Tu Nguyen**  
Université Polytechnique Hauts-de-  
France, France  
E: [tnguyen@uphf.fr](mailto:tnguyen@uphf.fr)