

Subject: Invited Session Proposal for ICSPAC 2021

Proposed Session Name: Security and optimal control of multi-agent systems: Theory and application

Security and optimal control of multi-agent systems (MASs) have been among the most active research topics in the period of the IoTs due to the widely application of MASs in many areas, such as energy management and optimization of micro-grid, formation and control of unmanned system, and so on. With the growing development of the industrial techniques, the past decade has witnessed tremendous progress in such field. As a result, we strongly hope to propose an invited session for ICSPAC 2021 entitled '**Security and optimal control of multi-agent systems: Theory and application**'. This special session is aiming to provide an opportunity for the researchers and practitioners in the field of **security control, optimal control and MASs** to share their new ideas and recent results. The topics of this session explicitly include but are not limited to the following aspects:

- Neural network control and adaptive control
- Adaptive dynamic programming, and reinforcement learning
- Fault detection and fault tolerant control
- Attack detection and security control
- The application of the above theories

Yours sincerely,

Weiwei Bai, University of Electronic Science and Technology of China
Yue Long, University of Electronic Science and Technology of China

Organizers:

Session Chair: Weiwei Bai

Session Co-Chair: Yue Long