

SIG on Cognitive Communications and Networking in Cyber-Physical Systems (CCNCPS)

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CCNCPS Activities

- Xianghui Cao (CCNCPS Chair) serves as the **Technical Program Co-chair** for the 34th Youth Academic Annual Conference of CAA (YAC 2019)
- **Special issue organization** on CPS security and privacy in Journal of The Franklin Institute (IF: 3.576)



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Special Issue on Emerging Topics on Security and Privacy in Cyber Physical Systems

Recently, the security and privacy issues of cyber-physical systems (CPS) are becoming critical and urgent, which drawn increasing attention from both academia and industry. CPS are reported vulnerable to many cyber-attacks, e.g., Denial-of-Service, protocol misbehaving, false data injection, and man-in-the-middle. More importantly, due to intimate interplay between cyber and physical spaces in CPS, the effect of cyber-attacks is no longer confined to the cyber space, but will be passed to the physical systems. If without security enhancements, conventional off-the-shelf attacks can cause severe damages to the whole CPS. On the other hand, adversaries can learn sensitive parameters or operation status of the physical systems by eavesdropping data transmissions on certain links. Smart attackers may consider temporal, spatial and spectral diversity information to exert impact in an efficient manner. Such challenges call for novel approaches that integrate with communication, computing and control perspectives to analyze, detect and defend cyber-attacks in CPS.

CCNCPS Activities

- CCNCPS became a **technical sponsor** to Mission-Oriented Wireless Sensor, UAV and Robot Networking (MiSARN, an Infocom workshop), Joint 7th International Workshop on Mission-Oriented Wireless Sensor and Cyber-Physical System Networking (MiSeNet) and 12th International Workshop on Wireless Sensor, Robot and UAV Networks (WiSARN)
- Prof. Enrico Natalizio (Vice chair of CCNCPS) serves as **general chair** of MiSARN.
- Prof. Enrico Natalizio (Vice chair of CCNCPS) became **leader** of the CPS transversal research axis at Loria, France
- Prof. Ruilong Deng (Vice chair of CCNCPS) serves as **Symposium Chair**, IEEE SmartGridComm'19 Control and Operation Symposium
- Prof. Ruilong Deng (Vice chair of CCNCPS) serves as **Publication Chair**, IEEE VTS Asia Pacific Wireless Communications Symposium (APWCS'19)

