

*IET Cyber-Physical Systems:  
Theory & Applications*  
**Call for Papers**

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**SPECIAL ISSUE ON:**

**Smart Vision Circuits and Systems for the Internet-of-Things**

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The Internet-of-Things enables the implementation of Cyber-Physical Systems (CPS) to control physical processes and interactions between them through a range of sensors, controllers and communication systems. Images and videos transmitted in real-time over the internet for data analysis and data fusion are subject to machine learning algorithms to automatically recognise people, objects, context and situations. Improvements in deep learning algorithms compounded with lower cost hardware have stimulated the emergence of this research area and make it practically realisable. Improvements in software, hardware technologies and storage are essential to improve the reliability of such systems. Video analytics also requires considerations of cyber security and privacy as an essential ingredient of solving scalability and trust management issues in practical applications. To address these, the development of enabling vision devices, circuits and systems within the CPS framework is promoted. This Special Issue will present state-of-the art research results on the topic of vision sensors, circuits and systems and their application to the Internet-of-Things for industrial and exploratory applications.

**Topics of interest include, but are not limited to, the following CPS-relevant topics:**

- Data driven approaches
- Software/hardware co-design approaches
- Design and testing for vision sensors
- CPS security in vision systems
- Complexity, reliability and scalability
- IoT vision system implementations
- Bioinspired and neuromorphic vision computing
- Architecture design and analysis
- Circuits and systems for video analytics
- Deep learning vision circuits and systems
- Systems approaches of CPS
- CPS in real-time vision computing

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All papers must be submitted through the journal's Manuscript Central system:  
<http://mc.manuscriptcentral.com/iet-cps>

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