CFP - IEEE AIPR 2020

Submitted by AdamT on Wed, 03/04/2020 - 4:12pm

The Workshop Committee invites papers that address all aspects of how trusted computing can be used to improve cybersecurity, resilience and privacy of multimedia including utilizing robust techniques, methodologies and algorithms from pattern recognition, development of novel tools, and theory and mechanisms of cyber defense operations. Topics include, but are not limited to, the following:

- Cybersecurity & Privacy issues in AI, Autonomy, Pattern Recognition
- Generating Deep Fakes in multimedia (images, video, speech, etc.)
- Deep Fake Detection and Characterization / Image Forgery Detection
- Fault-tolerant 3D Computer Vision
- Securing Multimedia Using Block Chains and Related Technologies to Track Computational Cognition and Provenance
- Cyber Defense to protect Image/Video Privacy, Veracity and Provenance
- Visual Steganography
- Privacy and Safety of Biometrics
- Trusted Deep Learning Kernels
- Trusted Hardware Accelerators
- Organically Adaptive Deep Learning for Novel Environments and Situations
- Safe Exploration of Remotely accessible Dynamic Environments
- Remote Sensing and Autonomy
- Securing Human and Robotic Systems
- Visual Edge and Cloud Computing to Process Mobile/IoT Device Data
- Medical Applications, Social Media Applications, etc.
- Election Security and Fake Imagery News Recognition
- Safety and Security of Vision Processing Pipelines in Autonomous Vehicles
- Reinforcement Learning-based Security Mechanisms
- Adversarial Machine Learning Architectures, Formulations, Attack Defense

Deadline for abstracts: **15 June 2020**. The Workshop will include oral and poster presentations, several keynote talks that provide in-depth overviews of the fields, and a special session on the theme topic. Written papers will be required (due after the workshop) and will be indexed in IEEE Xplore. AIPR 2020, the 49th annual workshop, is sponsored by the IEEE Computer Society Technical Committee on Pattern Analysis and Machine Intelligence, and organized by the AIPR Workshop Committee with generous support from other sponsors. AIPR 2020 Program Chairs ([Programchair2020@aipr-workshop.org](mailto:Programchair2020@aipr-workshop.org)): Prasad Calyam and Jon Rolf.
Call for Papers: Artificial Intelligence for Humanitarian Assistance and Disaster Response Workshop