

Name of Organization(s)



Unique Qualifications and Capabilities

- Extensive experience with Face Recognition and Identification in the wild, and across Pose, Illumination and Expression (PIE), and size
- Fast Indexing for face databases
- Compared our work with almost all publicly available face databases (~1 million images), including Labeled Faces in the Wild (LFW), and have shown improved performance over other approaches
- Human Re-identification across non-overlapping cameras - compared our work with almost all publicly available databases and have shown improved performance over other approaches
- Super-resolution of face images and videos (with/without facial expressions) and compared with the latest approaches
- Face recognition in video and comparison with other approaches, real-time registration
- Recognition of facial expressions in video (Best Entry Award in an International Competition held with an IEEE Conference)
- 3D model building of human faces from images
- A wireless network of 80 PTZ cameras (with 38 cameras in an outdoor setting) with real-time processing capability
- Experience in Industry and Academia
- Published 110+ journal papers, 310+ reviewed conference papers, 42+ book chapters, 10+ books in the CVPR field, 19 patents, Fellow IEEE, AAAS, IAPR, SPIE; Senior Fellow Honeywell (ex.)

Specific Capabilities Sought

Capability to process classified data

Interested in Supporting Research in Areas

- All aspects of R & D related to faces in images/videos for Verification, Identification, Indexing, Super-resolution
- Face recognition in the wild across pose, illumination expression and scale variations
- Use of context for face recognition



Research Areas of Interest

- Security and Surveillance
 - Biometrics: face, gait, ear, fingerprint recognition, performance prediction
 - Distributed video network: Detection, tracking and recognition of humans, vehicles, targets
- Computer Vision, Pattern Recognition, Data Mining and Graphics
- Machine Learning in Computer Vision
- Image and Video Databases
 - Concept-based retrieval, indexing
 - Retrieval based on user preference
- Bio-inspired computation
 - Facial expression and emotion recognition
- Video Bioinformatics



Point of Contact

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