PROGRAM AGENDA

PROGRAM REVIEW
FALL 2021

A series of Virtual Event dates throughout October and November

Monday, October 18th
09:00 - 09:30  WELCOME - DR. STEPHANIE SCHUCKERS, CITER DIRECTOR

KEYNOTE -  Mr. Arun Vemury  
Director, Biometric & Identity Technology Center 
Science and Technology Directorate 
U.S. Department of Homeland Security

09:45 - 13:15  NEW PROPOSALS PRESENTATIONS & DISCUSSION  
10 MIN EACH PLUS BREAKS

Tuesday, October 19th
09:00 - 09:30  STATE OF CITER  
NSF EVALUATION & SURVEYS

09:30 - 10:30  PROGRESS REPORT PRESENTATIONS

additional fall dates....

Friday, October 29th - 9:00 to 12:00  
Affiliate Advisory Board (AAB) Meeting

Tuesday, November 9th - 9:00 to 10:00

Wednesday, November 10th - 9:00 to 11:00  
Monday, November 15th - 9:00 to 11:00

Final Report Presentations - Standard Projects

Thursday, November 18th - 9:00 to 10:30  
Progress Report Presentations - DHS Special Projects

Monady, November 29th - 9:00 to 10:30
Roadmap Update Presentation

Please Note: All meeting times are Eastern Daylight Time (EDT)
New Proposals

Monday, October 18th, 2021

9:00  KEYNOTE - MR. ARUN VEMURY, DIRECTOR, BIOMETRIC & IDENTITY TECHNOLOGY CENTER, DHS

9:45  NEW PROJECT PROPOSAL PRESENTATIONS - 10 MINUTE EACH (7 MIN ORAL; 3 MIN Q & A)

A DEEP END-TO-END IRIS MATCHER FOR SIMULTANEOUS SEGMENTATION AND MATCHING.
21F-01C, Stephanie Schuckers (CU), Soumyabrata Dey (CU), Priyanka Das (CU)

MITIGATING THE IMPACT OF DILATION ON IRIS RECOGNITION
21F-04W, Jeremy Dawson (WVU), Moktari Mostofa (WVU)

EXPLAINABLE IRIS RECOGNITION TOOL
21F-03C, Stephanie Schuckers (CU), Priyanka Das (CU)

SEQUENCE CHECKING AND DEDUPLICATION FOR EXISTING FINGERPRINT DATABASES
21F-07W, Jeremy Dawson (WVU), Nasser Nasrabadi (WVU)

EXPLORING FEASIBILITY OF SMARTPHONE AS A 3D CONTACTLESS FINGERPRINT ACQUISITION AND IDENTIFICATION DEVICE.
21F-04C, Soumyabrata Dey (CU), A M Mahmud Chowdhury (CU)

QUALITY ASSESSMENT METRIC FOR CONTACTLESS FINGERPRINTS
21F-06W, Jeremy Dawson (WVU), Amol Joshi (WVU)

PRESENTATION ATTACK DETECTION FOR NONCONTACT FINGERPRINT SYSTEMS
21F-07C, Soumyabrata Dey (CU), Sandip Purnapatra (CU)

ENABLING FACE RECOGNITION MODELS TO WITHSTAND ADVERSARIAL ATTACKS.
21F-02CW, Masudul Imtiaz (CU), SM Safayet Hossain (CU), Xin Li (WVU)

LARGE SCALE SYNTHETICALLY GENERATED FACE DATASETS (LEGAL)
21F-02IM, Sebastien Marcel (IDIAP), Anil Jain (MSU)

FACE DE-MORPHING: FINDING THE IDENTITY OF THE ACCOMPLICE IN A MORPHED IMAGE
21F-01M, Arun Ross (MSU)

FACE RECOGNITION AT EXTREME PITCH AND YAW ANGLES
21F-03W, Nasser M. Nasrabadi (WVU), Moktari Mostofa (WVU)

SPECTROSCOPIC PHOTOACOUSTIC SENSING OF BIO-CONTENTS UNDER THE FINGERPRINT
21F-11B, Jun Xia (UB), Srirangaraj Setlur (UB)

TOWARDS GRANULAR VEHICLE ENGINE ABNORMALITY DETECTION USING SOUND EVENT DETECTION AND MULTIMODAL FEATURE FUSION
21F-12B, Srirangaraj Setlur (UB), Venu Govindaraju (UB)

12:30  END OF DAY 1
Tuesday, October 19th, 2021

09:00  WELCOME AND STATE OF CITER
NSF EVALUATION & SURVEYS

09:30  PROGRESS REPORT PRESENTATIONS - 3 MINUTE PRESENTATIONS, 3 MINUTES Q&A

DETECTION OF OVER-ROTATED BIOMETRIC IMAGES AND INCORRECT LABELING OF FINGERPRINTS, 21S-03B
Srirangaraj Setlur (UB), Stephanie Schuckers (CU), Faraz Hussain (CU), Keivan Bahmani (CU), Sarwar Murshed (CU)

EVALUATION OF THE PERFORMANCE OF MULTI-FINGER CONTACTLESS FINGERPRINT MATCHING, 21S-04W
Jeremy Dawson (WVU), Ali Dabouei (WVU)

INVESTIGATE THE EFFORT OF ACOUSTIC COUPLING ON ULTRASONIC FINGERPRINT IMAGING, 21S-05B
Jun Xia (UB)

EXPANSION OF CONTACTLESS MOBILE PHONE FINGERPRINT DATASETS 21S-04W-SP
Jeremy Dawson (WVU), Masudul Imtiaz (CU)

DIFFERENTIAL PERFORMANCE MITIGATION IN FACE RECOGNITION BASED ON A NOVEL SKIN REFLECTANCE ESTIMATE, 21S-05C
Stephanie Schuckers (CU), Mahesh Banavar (CU), Sabastien Marcel (Idiap)

OPEN-SOURCE FACE-AWARE CAPTURE WITH ANTI-SPOOFING FOR SECURING PASSPORT PHOTO CAPTURE, 21S-06C
Masudul Imtiaz (CU), SM Safayet Hossain (CU), Keivan Bahmani (CU), Stephanie Schuckers (CU)

MULTI-MODAL GAIT AND ANTHROPOMETRIC DATA COLLECTION, 21S-06B
Karthik Dantu (UB), Srirangaraj Setlur (UB)

BIOMETRICS AT SCALE: GENERATING LARGE-SCALE SYNTHETIC FINGERPRINT AND IRIS DATASETS, 21S-01M
Arun Ross (MSU), Anil K. Jain (MSU)

delayed from Spring 2021...

BIOMETRIC AND BIOGRAPHIC DATA CLEANUP WITH DEDUPLICATION AND QUALITY SCORING, 20S-03W
Guodong Guo (WVU) and Xin Li (WVU)

10:30  END OF DAY
Wednesday, October 29th

AAB Meeting

09:00 – 12:00  AAB MEETING

Tuesday, November 9th

Final Reports

09:00 – 10:00  DELAYED FINAL REPORTS FROM FALL 2020 - 15 MINUTE PRESENTATIONS, 5 MINUTES Q&A

BIOMETRIC AGING IN CHILDREN, PHASE III (DELAYED FINAL REPORT), 19S-02C
Stephanie Schuckers (CU), Priyanka Das (CU), Laura Holsopple (CU)

FASTER AND MORE ACCURATE MOBILE TOUCH DYNAMICS VIA FEATURE SELECTION AND SEQUENCE LEARNING, 19F-03C
Daqing Hou (CU), Mahesh Banavar (CU), Stephanie Schuckers (CU)

COMPARATIVE DETECTION OF FACIAL IMAGE MANIPULATION TECHNIQUES, 20S-03C
Zander Blasingame (CU), Chen Liu (CU)

Wednesday, November 10th

Final Reports

9:00 – 11:00  FINAL REPORT PRESENTATIONS - 15 MINUTE PRESENTATIONS, 5 MINUTES Q&A

PRESERVING THE PRIVACY OF FACE EMBEDDINGS IN MODERN FACE RECOGNITION SYSTEMS, 20F-01I
Vedrana Krivokuća Hahn and Sébastien Marcel (Idiap – CH)

TOUCHLESS FINGERPRINT BIOMETRICS AT BORDER CROSSING WITH USER MOBILE PHONES, 20F-12B
Nalini Ratha (UB)

LEVERAGING FINGER RELATIONSHIPS FOR 2-FINGER AUTHENTICATION ON MOBILE DEVICES, 20F-08B
Sergey Tulyakov (UB)

DEEP DEBLURRING OF FINGERPHOTOS CAPTURED BY SMARTPHONES, 20F-03W
Amol Joshi (WVU), Jeremy Dawson (WVU)

BIOMETRIC DATA CLASSIFICATION FOR LARGE-SCALE DATABASE ERROR DETECTION & CORRECTION, 20F-02W-SP
John Dando (WVU), Jeremy Dawson (WVU), Nasser Nasrabadi (WVU)

TOOLKIT FOR EXPLAINABLE AI IN BIOMETRIC RECOGNITION, 20F-06C
Stephanie Schuckers (CU), Mahesh Banavar (CU), Keivan Bahmani (CU)
Monday, November 15th

09:00 - 11:00  FINAL REPORT PRESENTATIONS - 15 MINUTE PRESENTATIONS, 5 MINUTES Q&A

JOINT FACE POSE ESTIMATION AND FRONTALIZATION, 20F-07W
Nasser Nasrabadi (WVU) and Jeremy Dawson (WVU), Moktari Mostafa (WVU)

HIGH RESOLUTION FACE COMPLETION FOR AUTHENTICATION UNDER THE COVID-19 PANDEMIC, 20F-06W
Gianfranco Doretto (WVU), Don Adjeroh (WVU), Zaigham Randhawa (WVU)

DEEPFAKE VIDEO FINGERPRINTING, 20F-03B-SP
Siwei Lyu (SUNY) and Xin Li (WVU)

DIGITALLY ALTERED DATA: FINDING THE ORIGINAL FROM NEAR-DUPLICATE BIOMETRIC IMAGES, 20F-01M-SP
Arun Ross (MSU)

DEEPFACE VIDEO FINGERPRINTING, 20F-03B-SP
Siwei Lyu (SUNY) and Xin Li (WVU)

Thursday, November 18th

09:00 - 10:30  DHS SPECIAL PROJECT PROGRESS REPORT PRESENTATIONS
10 MINUTE PRESENTATIONS, 5 MINUTES Q&A

TOWARDS THE CREATION OF A LARGE DATASET OF HIGH-QUALITY FACE MORPHS
Chen Liu (CU), Stephanie Schuckers (CU), Xin Li (WVU), Jeremy Dawson (WVU), Nasser Nasrabadi (WVU), David Doermann (UB), Srirangaraj Setlur (UB), Siwei Lyu (UB), Xiaoming Liu (MSU), Sebastien Marcel (IDIAP)

BIOMETRICS IMAGE ASSURANCE: FROM HARDWARE TO SOFTWARE
Daqing Hou (CU), Wei Yan (CU), Siwei Lyu (UB), Xiaoming Liu (MSU), David Doermann (UB), Srirangaraj Setlur (UB), Nalini Ratha (UB), Arun Ross (MSU)

EXPLAINABLE MECHANISMS FOR DEEP NEURAL NETWORKS: A BIOMETRICS PERSPECTIVE
Xiaoming Liu (MSU), Nalini Ratha (UB), Vishnu Boddeti (MSU), Arun Ross (MSU)

FULLY HOMOMORPHIC ENCRYPTION IN BIOMETRICS
Nalini Ratha (UB), Arun Ross (MSU) and Vishnu Boddeti (MSU)

Join us on Monday, November 29th - 9:00 to 10:30
CITeR Technology Roadmap Update!