PROGRAM AGENDA



PROGRAM REVIEW SPRING 2023

April x-xx, Martigny, Switzerland



12:50 - 16:00 AFFILIATE ADVISORY BOARD

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

Xday, April X, 2023

9:00 9:50	WELCOME & KEYNOTE STATE OF CITER	<u>t</u> 0
10:10	NEW PROJECT PROPOSAL PRESENTATIONS - 10 MINUTE EACH (7 MIN ORAL; 3 MIN Q 8 10 minutes time is alloted at times to allow for additional discussion	& A)
capture	 QUALITY-AWARE DEEP MULTIMODAL BIOMETRIC RECOGNITION SYSTEMS 22F-08W, Jeremy M. Dawson (WVU), Nasser M. Nasrabadi (WVU) OPEN SOURCE LOW COST BIOMETRIC FOVEATED VISION CAMERA 22F-07C, Masudul Imtiaz (CU), Soumyabrata Dey (CU), Stephanie Schuckers (CU) A STUDY TO BENCHMARK SMARTPHONE HARDWARE AND SOFTWARE FOR HIGH QUALITY IRIS DA 22F-01C, Soumyabrata Dey (CU), Masudul Imtiaz (CU) Discussion 	TA COLLECTION
synthetics & morphs	ARGE SCALE SYNTHETICALLY GENERATED FACE DATASETS (LEGAL2) 30 min. 22F-01i, Sebastien Marcel (Idiap) TOWARDS THE CREATION OF A LARGE DATASET OF HIGH-QUALITY FACE MORPHS - PHASE II (DHS SPECIAL PROJECT 22F-01j, N. Nasrabadi (WVU), J. Dawson (WVU), X. Li (WVU), C. Liu (CU), S. Schuckers (CU), D. Doermann (UB), S. Setlur (UB), S Lyu (UB APPROACH TO DEVELOP LARGE NON-CONTACT FGPT DATASET WITH GAN ALGORITHMS TO FOSTER RESEARCH 22F-04C, Sandip Purnapatra (CU), Keivan Bahmani (CU), Soumyabrata Dey (CU), Stephanie Schuckers (CU) DETECTING REAL-TIME DEEPFAKES WITH ACTIVE FORENSICS AND BIOMETRICS 22F-01B, Siwei Lyu (UB), Srirangaraj Seltur (UB) Discussion	
algorithms & explainability	A PERPETUAL DEEP FACE RECOGNITION SYSTEM 22F-01W, Nasser M. Nasrabadi (WVU), Mahedi Hasan (WVU) EXPLAINABLE FACE AND FINGERPRINT MATCHING VIA IMPROVED LOCALIZATION 22F-05C, Faraz Hussain, Daqing Hou, Rashik Shadman (CU), Sarwar Murshed (CU) Discussion	12:40 lunch
vulnerabilities	 LIVDET 2023: LIVENESS DETECTION COMPETITION FOR FINGERPRINT, PALMPRINT, IRIS, & FACE D 22F-06C, Masudul Imtiaz (CU), Stephanie Schuckers (CU) FULLY HOMOMORPHIC ENCRYPTION IN BIOMETRICS: PHASE 2 (DHS SPECIAL PROJECT) 22F-02J, Nalini Ratha (UB), Vishnu Boddeti, Arun Ross (MSU) A STUDY TO EVALUATE 3D-IMAGE-BASED FACE LIVENESS DETECTION USING NORMAL PHONE CAN 22F-02C, Soumyabrata Dey (CU), Stephanie Schuckers (CU) SCENARIO TESTING FOR PRESENTATION ATTACK DETECTION: TEST DESIGN & RQMTS FOR GOVERNN 22F-08C, Stephanie Schuckers (CU), Masudul Imtiaz (CU) Discussion 	60 min. ETECTION

Xday, April X, 2023

New Proposals (con't) & **Progress Reports**

BENCHMARKING DEEP FACE QUALITY ASSESSMENT ALGORITHMS AND ARCHITECTURES

22F-02W, Nasser Nasrabadi (WVU), Jeremy Dawson (WVU), Nima Najafzadeh (WVU)

LARGE-SCALE SEMI-SUPERVISED LEARNING FOR ENGINE AUDIO ABNORMALITY DETECTION AND UNDERSTANDING 22F-04B, Dennis Fedorishin (UB), Setlur (UB), Venu Govindaraju (UB)

15:20

quality

15:20 end

EFFECT OF SPECIFIC DATA VARIATIONS ON FORENSIC SPEAKER RECOGNITION RESULTS 22F-05W, Jeremy Dawson (WVU), Nasser Nasrabadi (WVU) Discussion... NSF SURVEYS PROGRESS REPORT POSTER SESSION, RECEPTION & RESEARCH LAB TOURS LOCATION TBD 16:30 LOCATION TBD

A PERPETUAL DEEP FACE RECOGNITION SYSTEM 22F-01W, Nasser M. Nasrabadi (WVU), Mahedi Hasan (WVU)

EXPLAINABLE FACE AND FINGERPRINT MATCHING VIA IMPROVED LOCALIZATION 22F-05C, Faraz Hussain, Daging Hou, Rashik Shadman (CU), Sarwar Murshed (CU)

QUALITY-AWARE DEEP MULTIMODAL BIOMETRIC RECOGNITION SYSTEMS

22F-08W, Jeremy M. Dawson (WVU), Nasser M. Nasrabadi (WVU)

LARGE SCALE SYNTHETICALLY GENERATED FACE DATASETS (LEGAL2)

22F-01i, Sebastien Marcel (Idiap)

TOWARDS THE CREATION OF A LARGE DATASET OF HIGH-QUALITY FACE MORPHS - PHASE II (SPECIAL PROJECT) 22F-01|, Nasrabadi (WVU), J. Dawson (WVU), X. Li (WVU); C. Liu (CU), S. Schuckers (CU), D. Doermann (UB), S. Setlur (UB), S Lyu (UB)

A STUDY TO BENCHMARK SMARTPHONE HARDWARE AND SOFTWARE FOR HIGH QUALITY IRIS DATA COLLECTION Soumyabrata Dey (CU), Masudul Imtiaz (CU)

DETECTING REAL-TIME DEEPFAKES WITH ACTIVE FORENSICS AND BIOMETRICS 22F-01B, Siwei Lyu (UB), Srirangaraj Seltur (UB)

FULLY HOMOMORPHIC ENCRYPTION IN BIOMETRICS: PHASE 2 (DHS SPECIAL PROJECT) 22F-02J, Nalini Ratha (UB), Vishnu Boddeti, Arun Ross (MSU)

SCENARIO TESTING FOR PRESENTATION ATTACK DETECTION: TEST DESIGN & ROMTS FOR GOV'T APPLICATIONS 22F-08C, Stephanie Schuckers (CU), Masudul Imtiaz (CU)

LARGE-SCALE SEMI-SUPERVISED LEARNING FOR ENGINE AUDIO ABNORMALITY DETECTION AND UNDERSTANDING 22F-04B, Dennis Fedorishin (UB), Setlur (UB), Venu Govindaraju (UB)

EFFECT OF SPECIFIC DATA VARIATIONS ON FORENSIC SPEAKER RECOGNITION RESULTS 22F-05W, Jeremy Dawson (WVU), Nasser Nasrabadi (WVU)

PERFORMANCE EVALUATION AND DEMOGRAPHIC ANALYSIS OF BIOMETRIC CRYPTOSYSTEMS - GATEWAY 22F-09C, DAQUING HOU (CU), STEPHANIE SCHUCKERS (CU)

> PROPRIETARY NDA TERMS APPLY TO ALL TECHNICAL PRESENTATIONS AT THE CITER SPRING 2023 PROGRAM REVIEW

Xday, April Xth, 2022

Final Reports & AAB Meeting

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

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EVALUATION OF EQUITY IN REMOTE IDENTITY PROOFING SOLUTIONS (GATEWAY PROJECT)	
22S-08C-G, Daqing Hou (CU), Stephanie Schuckers (CU), Michael Schuckers (SLU)	
EXTENDED MULTI-MODAL GAIT AND ANTHROPOMETRIC DATA COLLECTION AND ANALYSIS	
22S-04B, Karthik Dantu (UB), Srirangaraj Setlur (UB)	
130 50	
ROBUST CONTACTLESS FINGERPRINT PROCESSING TOOL 22S-06C, M.G. Sarwar Murshed (CU), Faraz Hussain (CU), Daqing Hou (CU)	
INTRODUCING INTENTIONAL DISTORTION TO DISTINGUISH BETWEEN LIVE AND FAKE FINGERS	
22S-05B, Bhavin Jawade (UB), Setlur (UB), Venu Govindaraju (UB)	
BIOMETRIC AGING IN CHILDREN: PHASE IV	
22S-02C, Stephanie Schuckers (CU), Masudul Imtiaz (CU), Laura Holsopple (CU)	10:40 break
LATENT FINGERPRINT IMAGE ENHANCEMENT TO IMPROVE RECOGNITION	30 min.
22S-05W, Jeremy Dawson (WVU), Nasser Nasrabadi (WVU), Amol Joshi (WVU)	
BIOMETRIC RECOGNITION IN NEWBORNS, INFANTS AND TODDLERS (GATEWAY)	
22S-06C-G, Stephanie Schuckers (CU), Masudul Imtiaz (cU), Kathleen Terrence (CPH), Anil Jain (MSU)	
ON THE CAPACITY AND UNIQUENESS OF SYNTHETIC FACE IMAGES	
22S-01M, Vishnu Boddeti (MSU), Arun Ross (MSU)	
ONE-TO-ONE FACE RECOGNITION WITH HUMAN EXAMINER IN THE LOOP	
22S-06W, Nasser M. Nasrabadi (WVU), Jeremy Dawson (WVU), Mahedi Hasan (WVU)	
FACIAL IMAGE QUALITY VECTOR ASSESSMENT 22S-03W, Nasser M. Nasrabadi (WVU), Nima Najafzadeh (WVU)	
A BENCHMARK DATASET FOR NEURAL VOCODER IDENTIFICATION	

22S-01B, Siwei Lyu (UB), David Doermann (UB), Srirangaraj Setlur (UB)

12:50 - 13:30 LUNCH (TO-GO OPTION)

13:30 – 16:00 AFFILATE ADVISORY BOARD