

Monday, 25.9.2023

8:00 - 9:30	Registration
9:30 - 11:50	Tutorial 1: Alpha and Omega of Deepfakes
12:00 - 14:30	Tutorial 2: Face Recognition and Verification: Recent Trends and Threats
9:30 - 13:30	Tutorial 3: Power Papers: Some Practical Pointers
9:15 - 14:00	Doctoral Consortium
15:00 - 20:00	Trip to Postojna Cave

Tuesday 26 0 2022

Tuesday, 26.9.2025		
7:30 - 8:45	Registration	ľ
8:45 - 9:00	IJCB 2023 Opening session	ı
9:00 - 10:00	Keynote 1 - Guoying Zhao (Oulu)	ŀ
10:00 - 10:30	Coffee break	ľ
10:30 - 11:45	Oral session 1 - Face, Iris and Fingerprint	li
11:45 - 12:30	Special Session 1 - Biometric recognition and identification at altitude and range	þ
12:30 - 14:00	Lunch	Ľ
14:00 - 15:15	Oral session 2 - Gait, Gesture and Action Recognition	ŀ
15:15 - 16:30	Poster session 1 + Coffee break	li
16:30 - 17:45	Poster session 2	ŀ
18:00 - 19:00	Guided Ljubljana City Tour	ľ
19:30 - 21:30	IJCB 2023 Reception	ľ

Conference Booklet



Wednesday, 27.9.2023

Registration
Keynote 2 - IAPR YBIA 2023 Award winner
IEEE Biometrics Council Meritorious Service Award recipient address
Coffee break
Oral session 3 - Face Generation, Attribute and Presentation Attack Detection
Special Session 2 - Advances in detecting manipulation attacks on biometric systems
Lunch
Oral session 4 - Multi-modal and Multi-Spectral Biometrics
Poster session 3 + Coffee break
Poster session 4 + Demos + Journal Presentations
Gala dinner at the Castle of Ljubljana

Thursday, 28.9.2023

8:00 - 9:00	Registration
9:00 - 10:00	Keynote 3 - Manoj Aggarwal (Amazon One)
10:00 - 10:30	Coffee break
10:30 - 11:45	Oral session 5 - DeepFakes and Digital Forensics
11:45 - 12:30	Special Session 3 - Synthetic data in Biometrics
12:30 - 1:15	Special Session 4 - 3D Biometrics with Monocular Vision
13:15 - 14:30	Lunch
14:30 - 15:45	Oral session 6 - Privacy, Demographic Biases & Fairness
15:45 - 17:00	Poster session 5 + Coffee break
17:00 - 17:15	Closing Session

Tutorial 1: Alpha and Omega of Deepfakes

- 9:30 10:30: Tutorial 1: Alpha and Omega of Deepfakes Part 1
- 10:30 10:50: Coffee Break
- 10:50 11:50: Tutorial 1: Alpha and Omega of Deepfakes Part 2
- 11:50 12:00: Break

Tutorial 2: Face Recognition and Verification: Recent Trends and Threats

- 12:00 13:30: Tutorial 2: Face Recognition and Verification: Recent Trends and Threats Part 1
- 13:50 14:30: Tutorial 2: Face Recognition and Verification: Recent Trends and Threats Part 2
- 15:00 20:00: Trip to Postojna Cave

Tutorial 3: Power Papers: Some Practical Pointers

- 9:30 10:30: Tutorial 3: Power Papers: Some Practical Pointers Part 1
- 10:30 10:50: Coffee Break
- 10:50 11:50: Tutorial 3: Power Papers: Some Practical Pointers Part 2
- 11:50 12:00: Break

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- 12:00 13:30: Tutorial 3: Power Papers: Some Practical Pointers Part 3
- 13:30 13:50: Coffee Break

Doctoral Consortium

- 9:15 9:30: Opening Remarks
- 9:30 9:50: Mentor/mentee Meet & Greet
- 9:50 10:40: Lightning Talks Session 1
- 10:40 11:00: Coffee Break
- 11:00 11:50: Lightning Talks Session 2
- 11:50 12:50: One-on-one mentoring session
- 12:50 14:00: Group lunch with all mentors



8:45 - 9:00: IJCB 2023 Opening session

9:00 – 10:00: What can machines read from human faces? Speaker: Gouying Zhao

10:00 - 10:30: Coffee Break

10:30 - 11:45: Orals 1 - Face, Iris and Fingerprint

- Dual Dense Uncertainty Embedding for Iris Recognition
- Sclera-TransFuse: Fusing Swin Transformer and CNN for Accurate Sclera Segmentation • COLFIPAD: A Presentation Attack Detection Benchmark for Contactless Fingerprint Recognition
- MRA-GNN: Minutiae Relation-Aware Model over Graph Neural Network for Fingerprint Embedding
- CoNAN: Conditional Neural Aggregation Network For Unconstrained Face Feature Fusion

11:45 - 12:30: Biometric recognition and identification at altitude and range

- Human Body Model based ID using Shape and Pose Parameters
- · DOERS: Distant Observation Enhancement and Recognition System
- · ATDetect: Face Detection and Keypoint Extraction at Range and Altitude Novel Body Biometric for Long-Range Recognition Under Extreme Conditions

12:30 - 14:00: Lunch

14:00 - 15:15: Orals 2 - Gait, Gesture and Action Recognition

- PointGait: Boosting End-to-End 3D Gait Recognition with Point Clouds via Spatiotemporal Modeling
- GaitRef: Gait Recognition with Refined Sequential Skeletons
- · A Multi-Stage Adaptive Feature Fusion Neural Network for Multimodal Gait Recognition · BehaveFormer: A Framework with Spatio-Temporal Dual Attention Transformers for IMU-enhanced Keystroke Dynamics
- GaitMorph: Transforming Gait by Optimally Transporting Discrete Codes

15:15 - 16:30: Posters 1: Main conference + Special session on Long-range Biometrics

- Age-constrained Ear Recognition: The EICZA Dataset and SASE Baseline Model
- GaitRef: Gait Recognition with Refined Sequential Skeletons
- Lifespan Face Age Progression using 3D-Aware Generative Adversarial Networks
- · A Large-Scale Re-identification Analysis in Sporting Scenarios: the Betrayal of Reaching a Critical Point
- · Adaptive Adversarial Patch Attack on Face Recognition Models
- BehaveFormer: A Framework with Spatio-Temporal Dual Attention Transformers for IMU-enhanced
- Recognizing People by Rody Shape Using Deep Networks of Images and Words
- . Enhancing 3D-Air Signature by Pen Tip Tail Trajectory Awareness: Dataset and Featuring by Novel Spatio-temporal CNN
- · GaitMorph: Transforming Gait by Optimally Transporting Discrete Codes
- · Template Recovery Attack on Homomorp. Encrypted Biometric Recognition Systems with Unprotected Threshold Comparison
- KinfaceNet: A New Deep Transfer Learning based Kinship Feature Extraction Framework
- · iWarpGAN: Disentangling Identity and Style to Generate Synthetic Iris Images
- Vocal Style Factorization for Effective Speaker Recognition in Affective Scenarios

Special session 1 Posters - Long-range Biometrics

- Human Body Model based ID using Shape and Pose Parameters
- · Gait Recognition with Mask-based Regularization
- · DOERS: Distant Observation Enhancement and Recognition System
- ATDetect: Face Detection and Keypoint Extraction at Range and Altitude
- · Challenges in Off-angle to Frontal Iris Image Conversion using Pix2Pix Generative Adversarial Networks
- Novel Body Biometric for Long-Range Recognition Under Extreme Conditions
- UG-LDFace: Unified and Generalized Framework for Long-Range Disguised Face Recognition
- (Un)fair Exposure in Deep Face Rankings at a Distance

16:30 - 17:45: Posters 2: Main conference + Competitions

- Dual Dense Uncertainty Embedding for Iris Recognition
- AdvGen: Physical Adversarial Attack on Face Presentation Attack Detection Systems
- · PointGait: Boosting End-to-End 3D Gait Recognition with Point Clouds via Spatiotemporal Modeling
- · Weakly Supervised Face and Whole Body Recognition in Turbulent Environments
- · Vista-Morph Unsupervised Image Registration of Visible-Thermal Facial Pairs Explaining Face Recognition Through SHAP-Based Pixel-Level Face Image Quality Assessment
- W2H-Net: Fast Prediction of Waist-to-Hip Ratio from Single Partial Dressed Body Scans in Arbitrary Postures via Deep Learning
- Sclera-TransFuse: Fusing Swin Transformer and CNN for Accurate Sclera Segmentation
- Improving Latent Fingerprint Orientation Field Estimation Using Inpainting Techniques
- CarVer: Setting the Standard for Face Verification with Caricatures
- Towards Generalizable Morph Attack Detection with Consistency Regularization
- · Can personalised hygienic masks be used to attack face recognition systems?
- COLFIPAD: A Presentation Attack Detection Benchmark for Contactless Fingerprint Recognition
- MRA-GNN: Minutiae Relation-Aware Model over Graph Neural Network for Fingerprint Embedding
- How Colorful Should Faces Be? Harmonizing Color and Model Quantization for Resource-restricted Face
- CoNAN: Conditional Neural Aggregation Network For Unconstrained Face Feature Fusion
- Analyzing Bias in Diffusion-based Face Generation Models
- Iris Liveness Detection Competition (LivDet-Iris) The 2023 Edition
- DFGC-VRA: DeepFake Game Competition on Visual Realism Assessment
- LivDet2023 Fingerprint Liveness Detection Competition: Advancing Generalization
- SynFacePAD 2023: Competition on Face Presentation Attack Detection Based on Privacy-aware Synthetic Training Data
- AG-ReID 2023: Aerial-Ground Person Re-identification Challenge Results
- Liveness Detection Competition Noncontact-based Fingerprint Algorithms and Systems (LivDet-2023 Noncontact Fingerprint)
- EFaR 2023: Efficient Face Recognition Competition
- Human Identification at a Distance: Challenges, Methods and Results on HID 2023
- Sclera Segmentation and Joint Recognition Benchmarking Competition: SSRBC 2023
 - The Unconstrained Ear Recognition Challenge 2023: Maximizing Performance and Minimizing Bias

- 11:00 12:30: Orals 3 Face Generation, Attribute and Presentation Attack Detection
- FedSIS: Federated Split Learning with Intermediate Representation Sampling for Privacypreserving Generalized Face Presentation Attack Detection
- StyleAU: StyleGAN based Facial Action Unit Manipulation for Expression Editing
- · ExFaceGAN: Exploring Identity Directions in GAN's Learned Latent Space for Synthetic Identity
- · DifFIQA: Face Image Quality Assessment Using Denoising Diffusion Probabilistic Models
- 12:30 13:15: Special Session 2 Recent Advances in Detecting Manipulation Attacks
- SDeMorph:Towards Better Facial De-morphing from Single Morph
- · A Dual Domain Attention Mechanism for Face Forgery Detection
- · On Self-Supervised Learning and Prompt Tuning of Vision Transformers for Cross-sensor Fingerprint Presentation Attack Detection

13:15 - 14:30: Lunch

14:30 - 15:45: Orals 4 - Multi-modal and Multi-Spectral Biometrics

- · Explaining, Analyzing, and Probing Representations of Self-Supervised Learning Models for Sensorhased Human Activity Recognition
- · Bridging the Gap: Heterogeneous Face Recognition with Conditional Adaptive Instance Modulation
- Adapt-FuseNet: Context-aware Multimodal Adaptive Fusion of Face and Gait Features using Attention Techniques for Human Identification
- TriGait: Aligning and Fusing Skeleton and Silhouette Gait Data via a Tri-Branch Network
- · Sweat Gland Enhancement Method for Fingertip OCT Images Based on Generative Adversarial

15:45 - 17:00: Posters 3: Main Conference + Special session 2: Attacks

- Detecting Morphing Attacks via Continual Incremental Training
- A Multi-Stage Adaptive Feature Fusion Neural Network for Multimodal Gait Recognition
- · FedSIS: Federated Split Learning with Intermediate Representation Sampling for Privacypreserving Generalized Face Presentation Attack Detection
- StyleAU: StyleGAN based Facial Action Unit Manipulation for Expression Editing
- · ExFaceGAN: Exploring Identity Directions in GAN's Learned Latent Space for Synthetic Identity
- FingerSTR: Weak Supervised Transformer for Latent Fingerprint Segmentation
- DifFIQA: Face Image Quality Assessment Using Denoising Diffusion Probabilistic Models
- · Optimal-Landmark-Guided Image Blending for Face Morphing Attacks
- SV-DeiT: Speaker Verification with DeiTCap Spoofing Detection
- · ViT Unified: Joint Fingerprint Recognition and Presentation Attack Detection
- Deep Boosting Multi-Modal Ensemble Face Recognition with Sample-Level Weighting

- Improving Face Recognition from Caption Supervision with Multi-Granular Contextual Feature Aggregation13. Multimodal Context-based Continuous Authentication; Lakshminarayan, Saandeep · On the Biometric Capacity of Generative Face Models
- Unmasking Deepfakes: Masked Autoencoding Spatiotemporal Transformers for Enhanced Video
- SDeMorph:Towards Better Facial De-morphing from Single Morph
- Fingerprint Presentation Attack Detection with Supervised Contrastive Learning
- Sound-Print: Generalised Face Presentation Attack Detection using Deep Representation of Sound
- · A Universal Anti-Spoofing Approach for Contactless Fingerprint Biometric Systems
- A Dual Domain Attention Mechanism for Face Forgery Detection
- On Self-Supervised Learning and Prompt Tuning of Vision Transformers for Cross-sensor Fingerprint Presentation Attack Detection

17:00 - 18:00: Posters 4: Main conference + Demos + Journals

- Multi-Biometric Fuzzy Vault based on Face and Fingerprints
- · Explaining, Analyzing, and Probing Representations of Self-Supervised Learning Models for Sensorbased Human Activity Recognition
- Two-Dimensional Dynamic Fusion for Continuous Authentication; Attrapadung
- Bridging the Gap: Heterogeneous Face Recognition with Conditional Adaptive Instance Modulation
- · Vulnerability of Automatic Identity Recognition to Audio-Visual Deepfakes
- Modeling Spoof Noise by De-spoofing Diffusion and its Application in Face Anti-spoofing
- Adapt-FuseNet: Context-aware Multimodal Adaptive Fusion of Face and Gait Features using Attention Techniques for Human Identification
- On the Use of Cross- and Self-Module Attentive Statistics Pooling Techniques for Text-Independent Speaker Verification
- CCFace: Classification Consistency for Low-Resolution Face recognition
- TriGait: Aligning and Fusing Skeleton and Silhouette Gait Data via a Tri-Branch Network
- Sweat Gland Enhancement Method for Fingertip OCT Images Based on Generative Adversarial

Journal Paper Posters

- Leveraging Ensembles and Self-Supervised Learning for Fully-Unsupervised Person Re-Identification and Text Authorship Attribution
- Biometric Template Protection for Neural-Network-Based Face Recognition Systems: A Survey of Methods and Evaluation Techniques
- · PoseNormNet: Identity-preserved Posture Normalization of 3D Body Scans in Arbitrary Postures
- PatientHandNet: 3D Open-palm HandReconstruction from Sparse Multi-view Depth Images
- Parameter agnostic stacked wavelet transformer for detecting singularities

- Demographic Bias in Low-Resolution Deep Face Recognition in the Wild
- A Unified Framework for High Fidelity Face Swap and Expression Reenactment
- D-LORD: DYSL-AI Database for Low-Resolution Disguised Face Recognition
- Ouality-aware Fusion of Multisource Internal and External Fingerprints under Multisensor Acquisition
- Unlinkable Zero-Leakage Biometric Cryptosystem: Theoretical Evaluation
- · and Experimental Validation

WEDNESDAY,

· Completely Contactless and Online Finger Knuckle Identification for Real-World Applications

Demo Presentations and Posters

- S2L+S2D: Identity-Preserving Speech-Driven 3D Talking Heads
- Face detection and recognition by OpenCV





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9:00 -10:00: Keynote 3 - Amazon One: A Peek under the Hood 10:00 -10:30: Coffee break

10:30 - 11:45: Orals 5 - DeepFakes and Digital Forensics

- OSVConTramer: A Hybrid CNN and Transformer based Online Signature Verification
- Identity-Preserving Aging of Face Images via Latent Diffusion Models; Banerjee
- Optimal-Landmark-Guided Image Blending for Face Morphing Attacks
- DFP-Net: An explainable and trustworthy framework for detecting deepfakes using interpretable
- iWarpGAN: Disentangling Identity and Style to Generate Synthetic Iris Images

11:45 - 12:30: Special Session 3 - Synthetic data in Biometrics

- Synthetic Data for the Mitigation of Demographic Biases in Face Recognition
- Meta-evaluation for 3D Face Reconstruction Via Synthetic Data
- SynthDistill: Face Recognition with Knowledge Distillation from Synthetic Data
- · Depth-guided Robust Face Morphing Attack Detection

12:30 - 13:15: Special Session 4 - 3D Biometrics with Monocular Vision

- · Online Model-based Gait Age and Gender Estimation
- NeutrEx: A 3D Quality Component Measure on Facial Expression Neutrality
- Recent Advancement in 3D Biometrics using Monocular Camera

14:00 - 15:15: Lunch

14:30 - 15:45: Orals 6 - Privacy, Demographic Biases & Fairness

- Benchmark Dataset Dynamics, Bias and Privacy Challenges in Voice Biometrics Research
- Toward responsible face datasets: modeling the distribution of a disentangled latent space for sampling face images from demographic groups
- HEBI: Homomorphically Encrypted Biometric Indexing
- Zero-shot racially balanced dataset generation using an existing biased StyleGAN2
- · Assessing the Privacy Risk of Cross-Platform Identity Linkage using Eye Movement Biometrics

15:45 - 17:00: Posters 5 - Main Conference + Special Sessions: Synthetic data + 3D **Biometrics**

- Benchmark Dataset Dynamics, Bias and Privacy Challenges in Voice Biometrics Research
- OSVConTramer: A Hybrid CNN and Transformer based Online Signature Verification
- De-identifying Face Image Datasets While Retaining Facial Expressions
- HBRC-500: A Long Range Recognition Benchmark Dataset using Face and Whole-body Imagery
- · Toward responsible face datasets: modeling the distribution of a disentangled latent space for sampling face images from demographic groups
- Approximating Optimal Morphing Attacks using Template Inversion
- How Close Are Other Computer Vision Tasks to Deepfake Detection?

- · Identity-Preserving Aging of Face Images via Latent Diffusion Models;
- . Unconventional Biometrics: Exploring the Feasibility of a Cognitive Trait based on Visual Self-Recognition
- . DFP-Net: An explainable and trustworthy framework for detecting deepfakes using interpretable prototypes
- HEBI: Homomorphically Encrypted Biometric Indexing
- · Zero-shot racially balanced dataset generation using an existing biased StyleGAN2
- Assessing the Privacy Risk of Cross-Platform Identity Linkage using Eye Movement Biometrics
- All about that BASE: Modeling Biometric Authentication Systems and their Evaluations to enable a more efficient Exchange of Research Results

Special session 3 Posters: Synthetic Data

- · Synthetic Data for the Mitigation of Demographic Biases in Face Recognition
- · Inversion of Deep Facial Templates using Synthetic Data
- SynthDistill: Face Recognition with Knowledge Distillation from Synthetic Data19. Sampling From Autoencoders' Latent Space via Quantization And Probability Mass Function Concepts
- Meta-evaluation for 3D Face Reconstruction Via Synthetic Data
- Synthetic Face Generation Through Eves-to-Face Inpainting
- Protocol Based Similarity Evaluation of Publicly Available Synthetic and Real Fingerprint Datasets
- Leveraging Synthetic Data and Hard Pair Mining for Selfie vs ID Face Verification
- Depth-guided Robust Face Morphing Attack Detection

Special session 4 Posters: 3D Biometrics

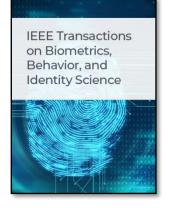
- Online Model-based Gait Age and Gender Estimation
- NeutrEx: A 3D Quality Component Measure on Facial Expression Neutrality
- Recent Advancement in 3D Biometrics using Monocular Camera

17:00 - 17:15: Closing Session





IEEE TRANSACTIONS ON BIOMETRICS, BEHAVIOR, AND IDENTITY SCIENCE



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