

Sunday, March 17 (Santa Fe Room)

4:30-5:45pm Registration (hallway)

5:30-7:00pm Reception

Monday, March 18 (New Mexico Room)

7:30 Registration and Continental Breakfast

8:00 Opening Remarks

8:05 Plenary 1 - Ed Delp "Deep Fakes, Generated and Manipulated Media: It is real and coming for our society!"

9:05 Session M1 (5 papers x 15min) - Image/Video Analysis and Modeling I

1011: Crime Detection from Pre-crime Video Analysis with Augmented Pose and Emotion Information

1016: OPTIMIZATION OF SWIM POSE ESTIMATION AND RECOGNITION WITH DATA AUGMENTATION

2021: Illumination Correction For Unsupervised Person Re-Identification

2022: ULI-RI: A Benchmark For Person Re-Identification With Quantitative Annotations

2055: Instructional Activity Recognition Using A Transformer Network with Multi-Semantic Attention

10:20 Break

10:40 Session M2 (5 papers x 15min) - Biomedical Image Analysis I

1008: Spatio-functional parcellation of resting state fMRI

1009: Robust intra-trial t-SNE Brain State Detection for Multiband fMRI Data

2019: COMPLEXITY MEASURES OF PSYCHOTIC BRAIN ACTIVITY IN THE FMRI SIGNAL

2054: MARKOV SPATIAL FLOWS IN BOLD FMRI: A NOVEL LENS ON THE BOLD SIGNAL APPLIED TO AN IMAGING STUDY OF SCHIZOPHRENIA

2056: Motion-resolved 4D MRI using vision-assisted reference auto-navigation

11:55 Lunch Break

1:30 PM Plenary 2 - Steven P. Love "Development and On-Orbit Operation of the NACHOS CubeSat-Based Trace-Gas Hyperspectral Imager"

2:30 PM Session M3 (4 papers x 15min) - Remote Sensing and Analysis I

1014: Application of Anomalous Change Detection for Identifying Changes in InSAR Time Series

2023: DEVELOPMENT AND ON-ORBIT OPERATION OF THE NACHOS CUBESAT-BASED TRACE-GAS HYPERSPECTRAL IMAGER

2034: 2D Spectral Representations and Autoencoders for Hyperspectral Imagery Classification and Explanability

2035: SIMULATION OF UNRESOLVED IMAGERY OF A GEOSYNCHRONOUS SATELLITE WITH DIRSIGTM

3:30 PM Break

3:50 PM Session M4 (5 papers x 15min) - Detection, Analysis and Interpretation

1006: Restorable synthesis: average synthetic segmentation converges to a polygon approximation of an object contour in medical images

2030: Detection and tracking of multiple vehicles using semantic information

2037: DETECTION AND SEGMENTATION OF SHAPE-CODED PARTICLES VIA HOUGH TRANSFORMS AND SNAKE ACTIVE CONTOURS

2048: Event-to-Video Conversion for Overhead Object Detection

2058: MIDWAVE/LONGWAVE DUAL-BAND INFRARED IMPROVES RECALL IN PRE-TRAINED YOLOV4 SMALL OBJECT DETECTION

6:30 PM Banquet

Tuesday, March 19 (New Mexico Room)

7:30 Registration and Continental Breakfast

8:00 Plenary 3 - Al Bovik "Visual Quality in the Era of Bigger, Faster, and Deeper Videos"

9:00 Session T1 (5 papers x 15min) - Image/Video Analysis and Modeling II

1004: A VISUAL QUALITY ASSESSMENT METHOD FOR RASTER IMAGES IN SCANNED DOCUMENT

2040: FROM TOPOLOGICAL SIGNATURES TO TEXTURAL PATTERNS: ENHANCING THE PRECISION OF SAND CLASSIFICATION

2046: IMPROVING AGE PREDICTION: UTILIZING LSTM-BASED DYNAMIC FORECASTING FOR DATA AUGMENTATION IN MULTIVARIATE TIME SER

2052: LOOK OUT FOR DANGEROUS SPIDERS: ARANEAE CLASSIFICATION USING DEEP LEARNING METHODS

2053: JOINT DEEP IMAGE RESTORATION AND UNSUPERVISED QUALITY ASSESSMENT

10:15 Break

10:35 Session T2 (5 papers x 15min) - Biomedical Image Analysis II

2024: COVID-19 PNEUMONIA CHEST X-RAY PATTERN SYNTHESIS BY STABLE DIFFUSION
2027: COMPUTER-BASED DIAGNOSIS OF EARLY SIGNS OF DIABETIC PERIPHERAL NEUROPATHY IN THERMAL VIDEOS OF THE PLANTAR FOOT
2038: STROKE RISK ASSESSMENT THROUGH SPARSE AM-FM DECOMPOSITIONS OF CAROTID PLAQUE ULTRASOUND IMAGES
2042: GENERATION OF SYNTHETIC ECHOCARDIOGRAMS USING VIDEO DIFFUSION MODELS
2045: DISTRIBUTION OF CONNECTIVITY STRENGTHS ACROSS FUNCTIONAL REGIONS HAS HIGHER ENTROPY IN SCHIZOPHRENIA PATIENTS T

11:50 Lunch Break

1:30 PM Plenary 4 - James P. Theiler "Bayesian oddities: homeopathic priors and the mirage of admissibility"

2:30 PM Session T4 (3 papers x 15 min) - Mathematical and Statistical Models and Methods

1018: QUALITY MODELING UNDER A RELAXED NATURAL SCENE STATISTICS MODEL

2025: A LOW-RANK TENSOR RECONSTRUCTION AND DENOISING METHOD FOR ENHANCING CNN PERFORMANCE

2057: UNDERSTANDING NEURAL NETWORK SYSTEMS FOR IMAGE ANALYSIS USING VECTOR SPACES

3:15 PM Break

3:35 PM Session T5 (3 papers x 15min) - Remote Sensing and Analysis II

2039: Evaluation of Hyperspectral Unmixing Methods: A Comparative Study for Very-High Spatial Resolution Hyperspectral Images

2047: 3D IMAGING WITH THE POLARIMETER TO UNIFY THE CORONA AND HELIOSPHERE

2049: TransCycleGAN: An Approach for Remote Sensing Image Super-Resolution

4:20 PM Closing Remarks

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