

IMPORTANT: Follow Central European Time (CET) Zone

The 4th International Conference on Recent Trends in Image Processing & Pattern Recognition (RTIP2R)

December 8-10, 2021, University of Malta, Msida, Malta

... in collaboration with PAMI Research Lab, Computer Science, USD (USA) & Central Univ. of Karnataka (India)

URL: <https://www.rtip2r-conference.org/2021/>

Zoom links

Day 1 (link 1):

<https://usd.zoom.us/j/95123456789>

Day 2 (link 2):

<https://usd.zoom.us/j/123456789012>

Day 3 (link 3):

<https://usd.zoom.us/j/234567890123>

Important: Registration is required. Make sure you enter 15 minutes before the session.

Day 1: December 8, 2021 (1:30 pm – 7 pm, CET)

Welcome

1:30 pm – 1:50 pm (CET)

Zoom space: [link 1](#)

Keynotes

2:00 pm – 2:50 pm (CET): Ajith Abraham, PhD (MIR Labs, USA)

Zoom space: [link 1](#)

Break (10 mins)

3:00 pm – 3:50 pm (CET): Girijesh Prasad, PhD (University of Ulster, UK)

Zoom space: [link 1](#)

Break (10 mins)

Session I

4:00 pm – 7:00 pm (CET)

Co-chairs: *II papers – 3-4/chair*

Satish Singh, PhD

Robertas Damasevicius, PhD

Vedika Gupta, PhD

Zoom space: *Link 1* (check webpage/email)
Category: Computer Vision and Pattern Recognition

- 8 Skewness of Gabor features are used for Gender classification during COVID-19
- 14 **Complex object detection using light-field plenoptic camera**
- 24 Real-Time Face Recognition for Organizational Attendance Systems
- 49 Harnessing Sustainable Development in Image Recognition through No-Code AI applications: A Comparative Analysis
- 53 Evaluating Performance of Adam Optimization by Proposing Energy Index
- Break (15 mins)**
- 61 An alignment-free fingerprint template protection technique based on minutiae triplets
- 64 Early prediction of complex business processes using association rule-based mining
- 66 A Framework for Masked-image Recognition System in COVID-19 Era
- 70 A Deep-Learning Based Automated Covid-19 Physical Distance Measurement System Using Surveillance Video
- 81 A Super Feature Transform for Small-size Image Forgery Detection
- 80 Face mask detection using Deep Hybrid Network Architectures

IMPORTANT: Follow Central European Time (CET) Zone

Day 2: December 9, 2021 (1:30 pm – 7 pm, CET)

Welcome

1:30 pm – 1:50 pm (CET)
Zoom space: *link 2*

Keynotes

2:00 pm – 2:50 pm (CET): Sally McClean, PhD (University of Ulster, UK)
Zoom space: *link 2*

Break (10 mins)

Session 1:

3:00 pm – 3:45 pm (CET)
Chair:
Tanima Dutta, PhD
Fernando Ortiz-Rodriguez, PhD
Zoom space: *Link 2* (check webpage/email)
Category: Satellite imaging and remote sensing

- 7 Agricultural Field Analysis Using Satellite Hyperspectral Data and Autoencoder
- 62 Development of NDVI Prediction Model Using Artificial Neural Networks
- 77 Time Series Forecasting of Soil Moisture using Satellite Images

Break (15 mins)

Session 2:

4:00 pm – 5:15 pm (CET)

Chair:

Robert Splinter, PhD

Manju Khari, PhD

Zoom space: *Link 2* (check webpage/email)

Category: Signal processing and machine learning

- 13 Imagined object recognition using EEG-based neurological brain signals
- 15 A fast and efficient k-nearest neighbor classifier using a convex envelope
- 68 Single Channel Speech Enhancement using Masking based on Sinusoidal Modeling
- 69 Extraction of Temporal Features on Fibonacci Space for Audio based Vehicle Classification
- 78 An improved technique for preliminary diagnosis of Covid-19 via cough audio analysis

Break (15 mins)

Session 3:

5:30 pm – 6:30 pm (CET)

Chairs: *4 papers – 2/chair*

BV Dhandra, PhD and

Ajit Danti, PhD

Zoom space: *Link 2* (check webpage/email)

Category: Document analysis and recognition

- 1 UHTelHwCC: A Dataset for Telugu Off-line Handwritten Character Recognition
- 3 Inflectional and Derivational Hybrid Stemmer for Sentiment Analysis: a Case Study with Marathi Tweets
- 28 Adaptive threshold-based database preparation method for handwritten image classification
- 38 A Graph-based Holistic Recognition of Handwritten Devanagari Words: An approach based on spectral graph embedding

IMPORTANT: Follow Central European Time (CET) Zone

Day 3: December 10, 2021 (1:30 pm – 7 pm, CET)

Welcome

1:30 pm – 1:50 pm (CET)

Zoom space: *link 3*

Keynotes

2:00 pm – 2:50 pm (CET): Neeraj Kumar, PhD (Thapar Inst. of Eng. and Techno, India)

Zoom space: *link 3*

Break (10 mins)

Session 1:

3:00 pm – 7:00 pm (CET)

Co-chairs: *13 papers – 4-5/chair*

PS Hiremath, PhD

VS Malenath, PhD

Aisha Makkar, PhD

Category: Healthcare: medical imaging and informatics

Zoom space: *link 3* (check webpage/email)

- 4 Designing the Convolutional Auto Encoder with Single Layered Long Short Term Memory Architecture for ECG Signal Compression
- 5 Cleaning Highly Unbalanced Multisource Image Dataset for Quality Control in Cervical Precancer Screening
- 18 Detection of Male Fertility Using AI Driven Tools
- 19 An empirical study of vision transformers for cervical precancer detection
- Break (15 mins)**
- 21 **CheXNet for Covid-19 Screening using 2.3K Positive Chest X-rays**
- 22 An Enhanced Deep Convolution Neural Network model to diagnose Alzheimer's disease using brain Magnetic Resonance Imaging
- 26 **Alzheimer's Disease Detection using Ensemble Learning and ANNs**
- 35 Automatic DNN-based Knee Osteoarthritis Stages Identification
- Break (15 mins)**
- 50 Stacked Dark COVID-Net: A Multi-class Multi-label classification approach for diagnosing COVID-19 using Chest X-Ray Images
- 52 Image Augmentation for Improving Automated Eligibility-Classification for Cervical Precancer Ablation Treatment
- 54 Osteoarthritis Detection Using Densely Connected Neural Network
- 63 **YOLO for foreign object detection in chest x-rays**
- 79 Mammogram Mass Classification: A CNN-based Techniques on Different Age Groups

Closing!

Closing remarks by **Ravindra Hegadi, PhD and Lalit Garg, PhD**

Update – upcoming event (rtip2r 2022): **KC Santosh, PhD**

Program designed by KC Santosh, PhD (santosh.kc@ieee.org)