

# 6<sup>th</sup> International Conference on Recent Trends in Image Processing and Pattern Recognition (Hybrid)

December 7 - 8, 2023, University of Derby (UK)

... in collaboration with 2AI: Applied Artificial Intelligence Research Lab - University of South Dakota (USA)



<http://www.rtip2r-conference.org/>

## (Co)Patrons

Warren Manning, University of Derby (UK)  
Louise Richards, University of Derby (UK)  
Stephan Reiff-Marganiec, University of Derby (UK)

## Honorary chairs

Farid Meziane, University of Derby (UK)  
Alistair McEwan, University of Derby (UK)  
Xi-zhao Wang, ShenZhen University (China)  
Laurent Wendling, University of Paris (France)  
KC Santosh, University of South Dakota (USA)

## General chairs

Aaisha Makkar, University of Derby (UK)  
Myra Conway, University of Derby (UK)  
Ashutosh Kumar Singh, IIIT Bhopal (India)

## Program chairs

Antoine Vacavant, Univ Clermont Auvergne (France)  
Anas Abou el Kalam, Cadi Ayyad University (Morocco)  
M-R Bouguelia, Halmstad University (Sweden)  
Ravindra Hegadi, Central Univ of Karnataka (India)

## Special track chairs

Gurjot Singh, Linköping university (Sweden)  
Mickaël Coustaty, Université de La Rochelle (France)  
Yassine Sadqi, Sultan Moulay Slimane (Morocco)  
Abdul Wahid, Univ Auto de Tamaulipas (Mexico)  
Aditya Nigam, IIT Mandi (India)  
Deepika Saxena, University of Aizu (Japan)  
Jitendra Kumar, NIT Tiruchirappalli (India)  
Longwei Wang, University of South Dakota (USA)  
Abdelkrim Haqiq, Hassan 1st University (Morocco)

## Workshop chairs

Hubert Cecotti, California State University (USA)  
Rodrigue Rizk, University of South Dakota (USA)  
Alice Othmani, Université de Paris-Est (France)  
Nibaran Das, Jadavpur University (India)  
Manju Khari, JNU (India)  
Gaurav Jaswal, IIT Mandi (India)  
Satish K Singh, IIIT Allahbad (India)  
Sushma Venkatesh, AiBA AS (Norway)

## Local workshop chairs

Alaa AlZoubi, Maqbool Hussain, Wajahat Ali Khan, Asad Abdi, University of Derby (UK)

## Local organizing team

Yagna Jadeja, Muntazir Mehdi, Nahid Sami, University of Derby (UK)

## Publicity team

Siddhi K Bajracharya (USA), Rodrigue Rizk (USA)

## Competition (with award)

*Fractured limb analysis using CT scans*. Winners will receive conference registration fees and will be invited to present their papers during the conference. In addition, papers will be selected for a possible publication in a journal issue (SCI indexed).

## Call for Papers

The 6<sup>th</sup> International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R) aims to attract current and/or advanced research on image processing, pattern recognition, computer vision, and machine learning. The RTIP2R 2023 will take place at the University of Derby, United Kingdom on December 7 - 8, 2023 in collaboration with 2AI Research Lab - Computer Science, University of South Dakota (USA). The contributions describing original, state-of-the-art unpublished research, and not currently under review by another conference or journal and addressing the latest and current research are invited in RTIP2R 2023. Best student paper awards will be conferred at the conference.

Topics of interest for general submission include, but are not limited to:

- *Signal, image processing, and machine learning*: Signal processing, image analysis fundamentals, algorithms, clustering and classification, model selection (machine learning), feature engineering, federated learning, and shallow as well as deep learning
- *Computer vision & pattern recognition*: Object detection and/or recognition (shape, color and texture analysis) and pattern recognition (statistical, structural, and syntactic methods).
- *Machine learning*: Algorithms, clustering and classification, model selection (machine learning), feature engineering, deep learning, and federated Learning (applications and challenges)
- *Data science/analytics*: Data mining tools, high-performance computing in big data

The special tracks include: (more details are available at conference website)

- SS1. AI for healthcare - revolutionizing the medical landscape
- SS2. Pattern recognition machine learning for cyber forensics and analytics
- SS3. Deep learning for biometric presentation attack detection and recognition
- SS4. AI and data science for industrial cyber-physical systems
- SS5. Pattern recognition for wireless networks
- SS6. Cyber medical systems: Personalized healthcare
- SS7. Pattern recognition for cyber security
- SS8. Image classification using federated learning

## Publication

In line with past RTIP2R events, conference proceedings will be published in Communications in Computer and Information Science (CCIS), Springer Nature (Scopus indexed). Selected and/or best papers will be extended for book series and journal issues (SCI, Scopus, and DBLP indexed plus impact factor).

## Paper submission

Papers are expected to be within the 8-15 page range. Authors should clearly identify the problem, their contribution(s), justification with respect to the state-of-the-art works. The program committee would like to review papers that develop, argue, and provide results. We recommend using the LaTeX template for preparing submissions. Submissions should be made through the RTIP2R 2023 Microsoft CMT webpage: <https://cmt3.research.microsoft.com/RTIP2R2023>

## Important dates

Full paper submission:	August 31, 2023
Notification (sent to authors):	September 30, 2023
Registration:	September 30, 2023
Camera ready submission:	October 15, 2023

## In-person event

In case authors need an option in presenting their papers and/or attending the conference event on-line (zoom), please contact [a.makkar@derby.ac.uk](mailto:a.makkar@derby.ac.uk) | [santosh.kc@usd.edu](mailto:santosh.kc@usd.edu), and visit <https://rtip2r-conference.org/2023/>

## PhD dissertation award

Submit your nominations to [ashutosh@nitkkr.ac.in](mailto:ashutosh@nitkkr.ac.in) and [a.makkar@derby.ac.uk](mailto:a.makkar@derby.ac.uk) (Deadline: July 31, 2023)