



# ICPR 2022 Call for Papers

ICPR 2022 is the premier world conference in Pattern Recognition. It covers both theoretical issues and applications of the discipline. We solicit original research for publication in the main conference. Topics of interest include all aspects of Pattern Recognition, not limited to the following detailed list:

## **Track 1: Artificial Intelligence, Machine Learning for Pattern Analysis**

- classification and clustering
- statistical learning theory
- syntactic and structural pattern recognition
- neural network architectures and models
- graph models
- deep learning
- representation learning
- online learning and continual learning
- supervised, unsupervised, self-supervised and semi-supervised learning
- transfer learning and meta learning
- multi-modal and multi-view learning
- active and ensemble learning
- reinforcement learning
- compressed sensing and sparse representation
- large scale learning and big data
- recurrent networks, temporal models and non-feed-forward methods
- low-shot and long-tailed learning
- generative models

## **Track 2 : Computer Vision and Robotic Perception**

- early and low-level vision
- stereo and 3D vision
- multiple view geometry
- object detection and recognition
- motion, tracking and video analysis
- deformable models and registration
- learning for vision
- scene analysis and understanding

- action and behavior recognition
- vision and language
- perception for autonomous navigation and/or driving
- vision for robotics, robot navigation and SLAM
- perceptually driven reinforcement learning

### **Track 3: Image, Video, Speech, and Signal Analysis**

- sensor array and multichannel signal processing
- image and video processing
- enhancement, restoration and filtering
- segmentation, features and descriptors
- coding, compression and super-resolution
- speech and speaker recognition
- audio and acoustic processing
- computational photography
- models, representations, and techniques for image mining
- Image analysis with ill-structured and spatial information

### **Track 4: Biometrics and Human-Machine Interaction**

- hard biometrics: face, iris, fingerprint, palmprint
- soft biometrics: skin, hair, ear, vein, facial expression
- gait and behavior
- multi-biometrics
- person identification and re-identification
- human-robot interaction
- brain-computer interfaces
- social robotics
- human body motion and gesture-based interaction
- speech and natural language-based interaction
- affective computing
- surveillance and security
- ethics and fairness issues in the use of biometrics

### **Track 5: Document and Media Analysis**

- text and symbol recognition
- handwritten text recognition
- document image analysis
- document understanding
- natural language processing
- scene text detection and recognition
- graphics recognition

- content based image retrieval and data mining
- visual question and answering
- multimedia document analysis
- media analysis for augmented and virtual reality
- multimodal fusion
- table detection, recognition, and structure extraction
- video text detection and recognition
- Human-document interaction

### **Track 6: Biomedical Image Analysis and Informatics**

- data-driven modeling of clinical care
- clinical predictive modeling
- biostatistics
- biomedical imaging techniques
- quantitative microscopy
- medical image analysis
- interactive segmentation
- visualization and 3D printing
- medical applications

### **Submission guidelines**

ICPR 2022 will employ a two-round review process. Papers must be registered prior to submission and all submissions take place through the PaperCept Conference Management Submission.

Papers submitted by the paper deadline will be reviewed using single-blind peer review. Authors are required to include their names and affiliations in their paper as illustrated in the sample paper templates. Submissions must identify the preferred track among the six conference tracks.

The result of the first review round will either be *accept* (possibly with recommended changes), *reject*, or *revise* to resubmit for a second review round. Accepted papers will be published by IEEE and be available in IEEE Xplore. Submissions must be limited to six pages plus additional pages for references.

### **IAPR Ethical Requirements for Authors**

IAPR requires that all authors wishing to present a paper declare that:

- The paper is substantially original and that no paper substantially similar in content has been submitted or will be submitted to any other conference or journal during the review period.

- The paper does not contain any plagiarism.
- The paper will be presented by the author or a co-author in person or online.
- IAPR retains the right to eliminate any papers in violation of these requirements and to exclude the authors of such papers from future IAPR community activities.

For the full statement of IAPR ethical requirements for authors, see the webpage <https://iapr.org/constitution/soe.php>.

In case of no-show, where neither an author nor a proxy presents the paper at the conference, ICPR 2022 reserves the right to exclude the paper from distribution and publication after the conference by removal from IEEE Xplore.

### **Important dates**

Paper registration deadline	January 10, 2022
Paper submission deadline	January 17, 2022
Acceptance/Rejection/Revision decision	March 14, 2022
Revision/rebuttal deadline	April 11, 2022
Final decision on submissions	May 9, 2022
Camera ready manuscript deadline	June 6, 2022
Early bird registration deadline	June 6, 2022
<b>ICPR 2022</b>	<b>August 21-25, 2022</b>