## Special Issue

# Application of Computer Vision and Pattern Recognition

### Message from the Guest Editor

Computer vision and pattern recognition are pivotal technologies that enable machines to interpret and understand visual information from the world. These technologies have a wide range of applications across various industries, solving complex problems and enhancing operational efficiency. Computer vision allows systems to process and analyze images, videos, and other visual inputs to extract meaningful information. Pattern recognition focuses on identifying patterns and regularities in data. Together, they empower machines to mimic human vision capabilities and automate tasks that require visual understanding.

Computer vision is used in medical imaging to assist in diagnosing diseases, such as detecting tumors in MRIs and X-rays. Pattern recognition helps to analyze patient data for better treatment plans. Vision-based systems are crucial for facial recognition and monitoring activities in real-time, enhancing security measures in public and private spaces. Autonomous vehicles rely heavily on computer vision for navigation, obstacle detection, and lane tracking, making them safer and more reliable.

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