Special Issue Proposal

Special issue title (limit: 100	Exploring the Progress of Image Processing through Machine Learning;
characters incl. spaces)	Current Trends, Obstacles and Prospects, for the Future.
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Possible contributors	Contributors from SRM GROUP OF UNIVERSITY , SAIRAM GROUP and
	Engineering colleges from other institutes
	The shift, towards an age, streamlined networks and cutting edge intellige
	(AI) technologies have deeply intertwined image processing with macl
	learning (ML) in our everyday lives and future industries. Image process
	technology is currently at its peak. As per a study over 80% of businesses
	projected to incorporate image processing techniques into their operations
	the year 2023. According to Statist the global revenue from technolog
	image processing exceeded \$50 billion in 2018. Is anticipated to soar to \$
	billion by 2025. The use of image processing applications has become cru
	for the functioning of our lives and businesses although there remain hurdle
	surmount. With the generation of volumes of visual data on a daily basis
	their intermlay, accuracy, and officiancy, stand out as significant concerns to
Aim and Scope	their interplay, accuracy and efficiency stand out as significant concerns to
	The most important factors in establishing trust in image processing syst
	are concerns about data accuracy and privacy. As a result, it is expected that
	image processing industry will prioritize accuracy and efficiency to address
	challenging issues in the forthcoming days. In the future, the indu
	anticipates an increase in smart devices focused on real-time image anal
	and the ability to automatically process and interpret visual data. Witho
	doubt the integration of AI MI and the expanded role of data (big d
	analytics will eventually result in fontestic and more significant soluti
	anarytics will eventuarly result in fantastic and more significant solution
	Because of image processing breakthroughs, we are seeing advancement
	fields such as healthcare, automotive, security, and more.
	It's crucial to invest more in utilizing technologies, like this one. We need
	notch image processing frameworks, machine learning algorithms and
	models to enhance business operations and networks in todays data world.
	tapping into this tech we can enjoy improved visual data interpretation, effic

	operations, features and increased productivity. Undoubtedly AI and in
	processing technologies have become parts of our lives enriching
	experiences. This highlights the importance of introducing an edition to inf
	researchers, educators and industry professionals about the models
	algorithms, for achieving successful and optimized image processing syste
Keywords	• Security and surveillance: Advanced image recognition and threat detection
	 Integration of Computer Vision with IoT
	 Medical image segmentation and annotation
	Applications in Security and Surveillance
	• Automotive vision systems: Enhancing vehicle safety and
	automation • Healthears imaging: AI driven diagnostics and treatment
	• Heathcare imaging. Al-driven diagnostics and treatment
Conclusion	In summary the combination of machine learning (ML) and artificial intelligence (AI), in image processing is transforming industries, unlocking possibilities in real time applications, healthcare, automotive systems and security. This collaborative progress is driving improvements in precision, productivity and scalability despite facing obstacles like data accuracy, privacy concerns and computational constraints. Upcoming technologies such as quantum computing and 5G offer avenues, for advancement. Upholding standards and ensuring AI usage remain crucial. By tackling these obstacles and dedicating resources to research efforts we can fully leverage the capabilities of ML and AI in image processing to shape an efficient and technologically advanced future.
Estimated number of submissions	100 Articles
Estimated number of publications	40 Articles
Does the special issue focus on	
any of the Sustainable Development Goals (SDG's)? If yes, which?	

Final decisions on manuscripts	Based on the feedback from peer reviewers the corresponding primary guest editor will submit a recommendation on all manuscripts to the editor in chief, who will make the final decisions.
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