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cases			authors	Quazi Marufur Rahman Peter Corke Feras Dayoub	
	authors	Quazi Marufur Rahman Peter Corke	title	Run-Time Monitoring of Machine Learning for Robotic Perception: A Survey of Emerging Trends	
		Ference Corke Ference Dayoub	publication_date 200	2021-01-05 00:00:00	
		1 0140 2 41,0 40	source	SupportedSources.INTERNET_ARCHIVE	
	title	Run-Time Monitoring of Machine Learning for Robotic Perception: A Survey of Emerging Trends	journal		
	publication_date   2021-01-01 00:00:00		volume		
	source	SupportedSources.INTERNET_ARCHIVE	doi		<u> </u>
	journal	Institute of Electrical and Electronics Engineers (IEEE)	urls	• https://web.archive.org/web/20210716200050/https://arxiv.org/ftp/arxiv/papers/2101/2101.01364.pdf	DUPLICATES 8
	volume		id	  id-2659900281832005874	
	doi	10.1109/access.2021.3055015			
	urls	• https://web.archive.org/web/20210429110924/https://ieeexplore.ieee.org/ielx7/6287639/6514899/09336665.pdf	essential building blocks for robotic perception. As a result, the research questions concerning the safety and reliable of learning-based perception are gaining increased importance. Although there is an established field that studies sa certification and convergence guarantee of complex software systems for decision-making during design-time, the uncertainty in run-time conditions and the unknown future deployment environments of autonomous systems as we the complexity of learning-based perception systems make the generalisation of the verification results from design-	essential building blocks for robotic perception. As a result, the research questions concerning the safety and reliability	
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	abstract			uncertainty in run-time conditions and the unknown future deployment environments of autonomous systems as well as the complexity of learning-based perception systems make the generalisation of the verification results from design-time to run-time problematic. More attention is starting to shift towards run-time monitoring of performance and	
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				reliability of perception systems with several trends emerging in the literature in the face of such a challenge. The attempts to identify these trends and summarise the various approaches on the topic.	
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