

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911041599 A

(19) INDIA

(22) Date of filing of Application :14/10/2019

(43) Publication Date : 25/10/2019

(54) Title of the invention : DEVICE FOR SEGREGATING OBJECTS IN LIMITED ILLUMINATION

(51) International classification	:A61B	(71)Name of Applicant :
(31) Priority Document No	1/06	<b>1)Chitkara Innovation Incubator Foundation</b>
(32) Priority Date	:NA	Address of Applicant :SCO: 160-161, Sector -9c, Madhya
(33) Name of priority country	:NA	Marg, Chandigarh- 160009, India. Chandigarh India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)MALARVEL, Muthukumaran</b>
(87) International Publication No	: NA	<b>2)NAYAK, Soumya Ranjan</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

According an embodiment, the present disclosure provides a device for segregating objects in limited illumination. A device for segregating objects in limited illumination comprises an imaging device to capture one or more images of one or more objects in the limited illumination environment. An image processing unit operatively coupled to the imaging device, the processing unit comprising a processor coupled to a memory, the memory storing instructions executable by the processor to extract one or more features of the captured one or more images, wherein the one or more features pertains to visual features of the captured one or more images, identify the one or more objects from the captured one or more images by detection of edges of the one or more objects based on the extracted one or more features and responsive to the identified one or more objects, determine extent of diffusion for each of the identified one or more objects to enable segregation of the identified one or more objects based on the determined extent of diffusion to enable recognition of the object in the limited illumination environment.

No. of Pages : 18 No. of Claims : 7