

CALIFORNIA SCIENCE & ENGINEERING FAIR 2018 PROJECT SUMMARY

	Project Number
Junseo Park	S0823
Project Title Diabetic Retinopathy Symptoms Recognition Us	sing Image Processing
Abstract	
 Dbjectives/Goals Diabetic Retinopathy (DR) affects 347 million people in the world, of The goal was to develop a tool to be used in diagnosing DR. Methods/Materials The research idea was obtained from Kaggle.com. The images were o image's brightness was curve fitted to a quadratic surface in order to n field. Then the color components were used to segment the blood vesse features that were neither healthy tissue nor blood vessels, i.e., anoma were used to determine the shape and the size of blood vessels and an measuring the distribution of these morphological measurements, the retinopathy was determined. Results Hemorrhages and hard exudates were detected successfully on images Conclusions/Discussion The results are very promising because these correct detections of the correct diagnosis of DR. 	obtained from ADCIS.net. The normalize the brightness across the sels, optic nerve disc and other dies. Morphological components omalies. Computing and then presence and the severity of the s that were given.