

Module	Introduction to Image Processing / COMP2032 (IIP) / Semester 2
Module Convenor(s)	Tissa Chandesa

Assessment Name	Coursework	Weight 40%	
	The coursework (details below) requires you to develop a software solution, using the Matlab Image Processing Toolbox, to a real image processing problem and produce a written report describing and critically evaluating your solution. The deliverables required are:  1. Matlab code: .m file 2. Written report: 2000 words max, PDF format		
	Detect and Segment Leaf		
	Segmentation is a common approach often extract qualitative data as well as to reduce processing or analysis of a given image. Pri processing pipeline usually takes place to in image.	the complexity of further or to segmentation, a pre-	
	Design and implement a Matlab program segmenting leaves. Your program must and produce the desired output image. image is shown below.	take in the given input image	
Description and Deliverable(s)	330		
	Input Image	Output Image	
	To be clear: the output image should on with the leaves colour coded. The colou and MUST be randomly generated by y	irs for each leaf must be distinct	
	Note: the aim here is to produce one should be able to process each of the changes being made to the software parameters it may use. You should a automatic as possible, i.e., try to min supplied parameters. You are ONLY segmentation technique, so, choose	e three images without any or any hard-coded lso seek a solution that is as imise the number of user-ALLOWED to use ONE	
	Write a report (max 2000 words) which:     Describes the pre-processing techn     method employed		



## **School of Computer Science** *Module Assessment Sheet for 2021-2022*

	<ul> <li>Explains why you choose those technique(s) and method</li> <li>Presents the results obtained on the images supplied</li> <li>Critically evaluates your method on the basis of those results; what are its strengths and weakness? This section of the report should make explicit reference to features of the results you obtained.</li> <li>I would strongly recommend that you spend a little time examining the images using the tools available in Matlab before starting to construct a solution.</li> </ul>	
Release Date	Friday, 18 <sup>th</sup> February 2022	
Submission Date	Friday, 15 <sup>th</sup> April 2022, by 11:55pm	
Late Policy (University of Nottingham default will apply, if blank)	(the standard 5% absolute) for each late <b>working day</b> out of the total 100	
Feedback Mechanism and Date	Marks and written individual feedback will be returned via Moodle 13 <sup>th</sup> May 2022	
Matlab code: 30% [unable to run codes will result in 0% being awar Description of key features of the implementation: 20% Explanation of the results obtained: 20% Discussion of the strengths and weaknesses of the chosen technique(s and method: 30%		