

README

This database is developed for purely academic and research purpose. Those who are interested to use the database are requested to quote the reference of database developer.

Name of database developer:

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Leaf image database is designed to be useful for image processing community who are involved in following area

- Content based image retrieval
- Non linear shape analysis
- Image segmentation for proper extraction of venation pattern
- Pattern classification
- Shape feature representation
- Application of curvature scale space
- Classification of images based on texture
- Venation pattern analysis
- Contour analysis
- *etc.*

This image database can be very useful for evaluation of various image processing algorithms.

Leaf Image Database is a collection of leaf images from variety of plants. Presently this database consists of 18 different types of leaf images.






Nomenclature:








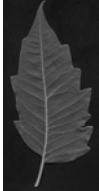

Images are named alphabetically. Details of the file names are as follows


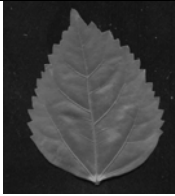

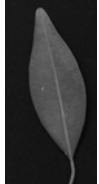
ag1.tif can be described as

1. 'a' is a class
2. 'g' is gray scale image / 'c' for color image / 'e' is a ground truth edge detected image / 't' is a thresholded ground truth image
3. '1' is number of image in a class
4. 'tif' / 'jpg' – image formats




Presently database contains following gray scale images for every class

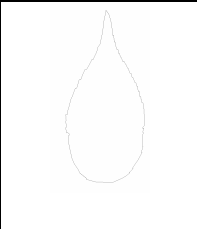
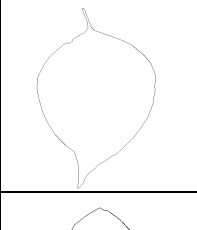
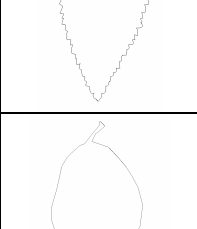
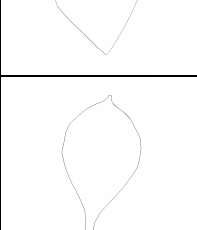
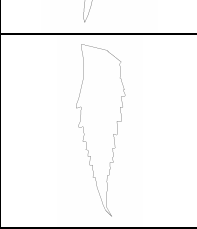
Sr. No.	File name	Thumbnail	No. of images	Type of image	Size of images
1	ag1.tif-ag10.tif		10	Gray scale	4.5 MB
2	bg1.tif-bg10.tif		10	Gray scale	1.07 MB
3	cg1.tif-cg10.tif		10	Gray scale	1.64 MB
4	dg1.tif- dg5.tif		5	Gray scale	7.77 MB
5	eg1.tif		1	Gray scale	1.06 MB



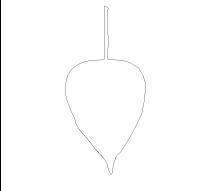
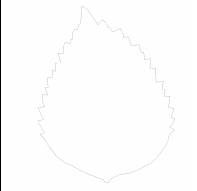


6	gg1.tif-gg3.tif		3	Gray scale	484 KB
7	hg1.tif-hg3.tif		3	Gray scale	239 KB
8	ig1.tif-ig3.tif		3	Gray scale	427 KB
9	kg1.tif-kg3.tif		3	Gray scale	890 KB
10	kg1.tif-kg3.tif		3	Gray scale	381 KB
11	lg1.tif-lg3.tif		10	Gray scale	799 KB
12	mg1.tif-mg10.tif		10	Gray scale	8.13 MB
13	ng1.tif-ng5.tif		5	Gray scale	32.7 MB
14	og1.tif-og10.tif		10	Gray scale	65.9 MB

15	pg1.tif-pg12.tif		12	Gray scale	6.85 MB
16	rg1.tif-rg12.tif		12	Gray scale	33.8 MB
17	vg1.tif-vg12.tif		12	Gray scale	37.1 MB
18	wg1.tif-wg10.tif		10	Gray scale	20.9 MB

Following ground truth images are developed for above images.

Sr. No.	File name	Thumbnail	No. of images	Type of image	Size of images
1	ae1.tif-ae10.tif		10	BW	254 KB
2	be1.tif-be10.tif		10	BW	56.7 KB
3	ce1.tif-ce10.tif		10	BW	123 KB

4	de1.tif- de5.tif		5	BW	186 KB
5	ee1.tif		1	BW	10 KB
6	ge1.tif-ge3.tif		3	BW	30.6 KB
7	he1.tif-he3.tif		3	BW	17.4 KB
8	ie1.tif-ie3.tif		3	BW	31.4 KB
9	je1.tif-je3.tif		3	BW	49.3 KB
10	ke1.tif-ke3.tif		3	BW	32.6 KB
11	le1.tif-le3.tif		10	BW	98.1 KB
12	me1.tif-me10.tif		10	BW	370 KB

13	ne1.tif-ne5.tif		5	BW	677 KB
14	oe1.tif-oe10.tif		10	BW	1.28 MB
15	pe1.tif-pe12.tif		12	BW	472 KB
16	re1.tif-re12.tif		12	BW	761 KB
17	ve1.tif-ve12.tif		12	BW	776 KB
18	we1.tif-we10.tif		10	BW	426 KB

Thanks

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