One-hundred Species Plant Leaves Data Set

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1 Introduction

The 'leaves' data set [1] comprises one-hundred species of leaves. For each species, there are sixteen distinct specimens, photographed as a colour image on a white background. Figures 1 and 2 contain a sample binary image of each of the one-hundred plant species from the new data set.

References

[1] James Orwell Charles Mallah, James Cope. Plant leaf classification using probabilistic integration of shape, texture and margin features. Signal Processing, Pattern Recognition and Applications, in press.

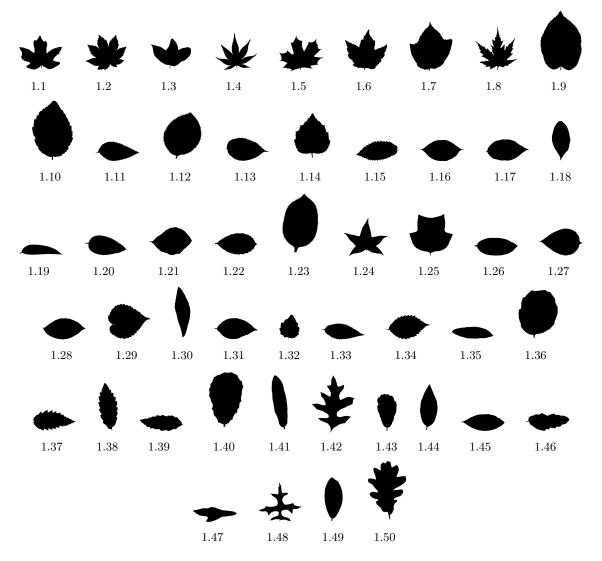


Figure 1: A silhouette image of one plant specimen each from the challenging one-hundred species leaves data set: 1.1 Acer Campestre. 1.2 Acer Circinatum. 1.3 Acer Mono. 1.4 Acer Palmatum. 1.5 Acer Platanoids. 1.6 Acer Rubrum. 1.7 Acer Rufinerve. 1.8 Acer Saccharinum. 1.9 Alnus Cordata. 1.10 Alnus Rubra. 1.11 Alnus Sieboldiana. 1.12 Alnus Viridis. 1.13 Betula Austrosinensis. 1.14 Betula Pendula. 1.15 Castanea Sativa. 1.16 Cornus Chinensis. 1.17 Cornus Macrophylla. 1.18 Cytisus Battandieri. 1.19 Eucalyptus Glaucescens. 1.20 Eucalyptus Urnigera. 1.21 Fagus Sylvatica. 1.22 Ilex Aquifolium. 1.23 Ilex Cornuta. 1.24 Liquidambar Styraciflua. 1.25 Liriodendron Tulipifera. 1.26 Lithocarpus Cleistocarpus. 1.27 Magnolia Heptapeta. 1.28 Magnolia Salicifolia. 1.29 Morus Nigra. 1.30 Olea Europaea. 1.31 Phildelphus. 1.32 Populus Nigra. 1.33 Prunus Avium. 1.34 Prunus Shmittii. 1.35 Pterocarya Stenoptera. 1.36 Quercus Agrifolia. 1.37 Quercus Brantii. 1.38 Quercus Canariensis. 1.39 Quercus Castaneifolia. 1.40 Quercus Coccifera. 1.41 Quercus Crassipes. 1.42 Quercus Ellipsoidalis. 1.43 Quercus Greggii. 1.44 Quercus Ilex. 1.45 Quercus Imbricaria. 1.46 Quercus Infectoria. 1.47 Ilex Aquifolium. 1.48 Quercus Palustris. 1.49 Quercus Phillyraeoides. 1.50 Quercus Pubescens.

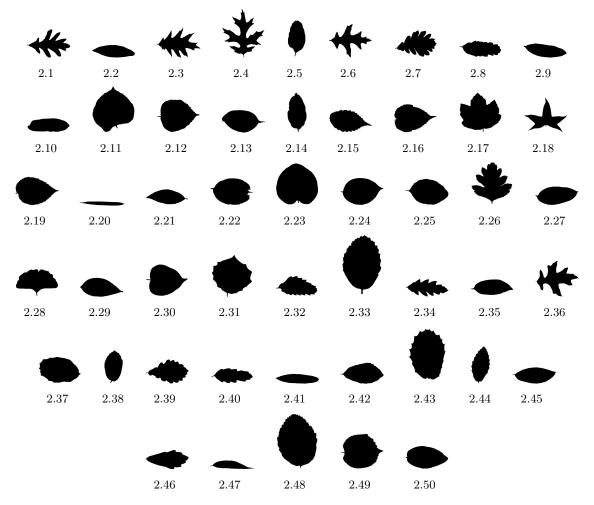


Figure 2: A silhouette image of one plant specimen each from the challenging one-hundred species leaves data set: 2.1 Quercus Pyrenaica. 2.2 Quercus Rhysophylla. 2.3 Quercus Rubra. 2.4 Quercus Shumardii. 2.5 Quercus Suber. 2.6 Quercus Texana. 2.7 Quercus Vulcanica. 2.8 Quercus Hispanica. 2.9 Rhododendron Russellianum. 2.10 Salix Intergra. 2.11 Tilia Oliveri. 2.12 Tilia Platyphyllos. 2.13 Ulmus Bergmanniana. 2.14 Viburnum Tinus. 2.15 Zelkova Serrata. 2.16 Acer Capillipes. 2.17 Acer Opalus. 2.18 Acer Pictum. 2.19 Alnus Maximowiczii. 2.20 Arundinaria Simonii. 2.21 Callicarpa Bodinieri. 2.22 Celtis Koraiensis. 2.23 Cercis Siliquastrum. 2.24 Cornus Controversa. 2.25 Cotinus Coggygria. 2.26 Crataegus Monogyna]. 2.27 Eucalyptus Neglecta. 2.28 Ginkgo Biloba. 2.29 Lithocarpus Edulis. 2.30 Populus Adenopoda. 2.31 Populus Grandidentata. 2.32 Quercus Afares. 2.33 Quercus Alnifolia. 2.34 Quercus Cerris. 2.35 Quercus Chrysolepis. 2.36 Quercus Coccinea. 2.37 Quercus Crassifolia. 2.38 Quercus Dolicholepis. 2.39 Quercus Hartwissiana. 2.40 Quercus Kewensis. 2.41 Quercus Phellos. 2.42 Quercus Pontica. 2.43 Quercus Semecarpifolia. 2.44 Quercus Trojana. 2.45 Quercus Variabilis. 2.46 Quercus Turneri. 2.47 Salix Fragilis. 2.48 Sorbus Aria. 2.49 Tilia Tomentosa. 2.50 Viburnum Rhytidophylloides.