| **Hyperspectral radiance data for the scene Ruivães Ferns (Nascimento, S.M.C, Amano, K., & Foster, D.H. (2015). Spatial distributions of local illumination color in natural scenes. Vision Research doi:10.1016/j.visres.2015.07.005).** | |
|---|---|
| Location name | Ruivães, Vieira do Minho, Portugal |
| Scene description | Vegetation in the Ruivães area. |
| Geographic reference points | Scene Latitude 41.674703° Longitude -8.044877° |
| Date of acquisition | 4 June 2003 |
| Acquisition times | 17:30 |
| Viewing geometry | Visual angle of scene from camera: 6.9 × 5.3 deg |
| | Distance of the camera to flat reference: 13.4 m |
| Matlab Files | Ruivaes_Ferns.mat |
| BMP Files | Ruivaes_Ferns.bmp unedited |
| How to load data | In Matlab, if hyperspectral image files are in working directory, then Matlab command<br>>> load ('Ruivaes_Ferns.mat')<br>loads hyperspectral image data into memory with name 'hsi', same for every scene |
| What the data represent | Array 'hsi' has size 1024 × 1344 × 33. It represents a set of 33 greyscale images of size 1344 (H) × 1024 (V) pixels sampled at wavelengths 400, 410, ..., 720 nm, with each pixel value representing spectral radiance in W $m^{-2}$ $sr^{-1}$ $nm^{-1}$ |
| Postprocessing | See Section 2.1. Hyperspectral system, in Nascimento, S.M.C, Amano, K., & Foster, D.H. (2015). Spatial distributions of local illumination color in natural scenes. Vision Research doi:10.1016/j.visres.2015.07.005. |
| Matlab version | R2014b (8.4.0.150421). |
| More details | See Nascimento, S.M.C, Amano, K., & Foster, D.H. (2015). Spatial distributions of local illumination color in natural scenes. Vision Research doi:10.1016/j.visres.2015.07.005. |
| Usage and citation | These data are for personal use only. If you use these hyperspectral images or the colour images rendered from them in any published work arising from these data, please cite the source publication in full: Nascimento, S.M.C, Amano, K., & Foster, D.H. (2015). Spatial distributions of local illumination color in natural scenes. Vision Research doi:10.1016/j.visres.2015.07.005. |
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| Last update | 27 December 2017 |