

University of Pretoria Yearbook 2019

Mathematical morphology 820 (WTW 820)

| Faculty Faculty of Natural and Agricultural Sciences |
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| Module credits 0.00 |
| Prerequisites Measure Theory and Functional Analysis on honours level |
| Contact time 1 lecture per week |
| Language of tuitionModule is presented in English |
| Department Mathematics and Applied Mathematics |
| Period of presentation Semester 1 |

Module content

Mathematical morphology – a theory for the analysis of special structures and a powerful methodology for the extraction of useful information from images. Morphological operators and their properties: erosion, dilation, opening, closing, granulometries. Applications to noise removal, filtering, extraction of features, edge detection, etc. LULU operators - properties and applications. Partial differential equations for morphological operators.

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