**Structure**

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| **Week** | **Date** | **Lead** | **Topic** |
| 1 | 03/10 | AM | Spatial analysis for data science   * Introduction and applications * Software available (R) |
| 2 | 10/10 | AM | Graphical representation of spatial data   * Vector data * Raster data * Projections |
| 3 | 17/10 | AM | Spatial autcorrelation   * Formalisation of space * W matrix, neighbourhood definitions * Measures of autorcorrelation |
| 4 | 24/10 | AM | Suitability mapping I (qualitative)   * Introduction and applications * Suitability map |
| 5 | 31/10 | AM | Suitability mapping II (quantitative)   * Introduction and applications * Ecological niches |
|  | 07/11 |  |  |
| 6 | 14/11 | AM | Raster data and geostatistics   * Introduction and applications * Kriging |
| 7 | 21/11 | JT | Network analysis (WK8 switch)   * Introduction and application * Network GIS model |
| 8 | 28/11 | JT | Geodemographics (WK7 switch)   * Introduction and application * K-means clustering |
| 9 | 05/12 | AM | Spatial regression models I (GWR) |
| 10 | 12/12 | AM | Spatial regression models II (Lag, Error) |

**Time:**

Lecture Monday 14h00-15h00

Practical Monday 15h00-17h00