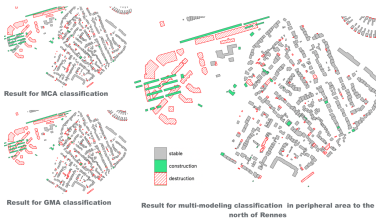
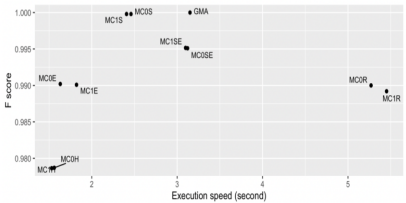
Benchmark of matching algorithms

Published as Guardiola, P., Raimbault, J., Olteanu-Raimond, A. M., and Perret, J. (2024). Benchmarking algorithms for matching geospatial vector data. In *Proceedings of the French Regional Conference on Complex Systems* (pp. 277-280).





Bi-objective benchmark optimising for **performance** (F-score on a $\simeq$2k buildings ground truth dataset) and **runtime**, for different parametrisations of two algorithms (multi-criteria and Geometric Matching of Areas): (i) various algorithm performances; (ii) under-detection of change by GMoA and over-detection by MCA; (iii) GMA better for m-n links, MCA better for 1-1 links.
$\rightarrow$ need fine-tuning to each case, region and urban morphology; or a **new approach combining both**.