# Spatial Distribution of the top-k% arcs in the original street network and after the application of the H-EBC algorithm

Supplementary Material of the paper:

A Generic Betweenness Centrality-Based Approach for Urban Street Network Reallocation to Mitigate Climate Change Impacts

Spatial distribution of the top-5% arcs. On the left side, the distribution before the application of the H-EBC Algorithm, and after for the right side of the images.

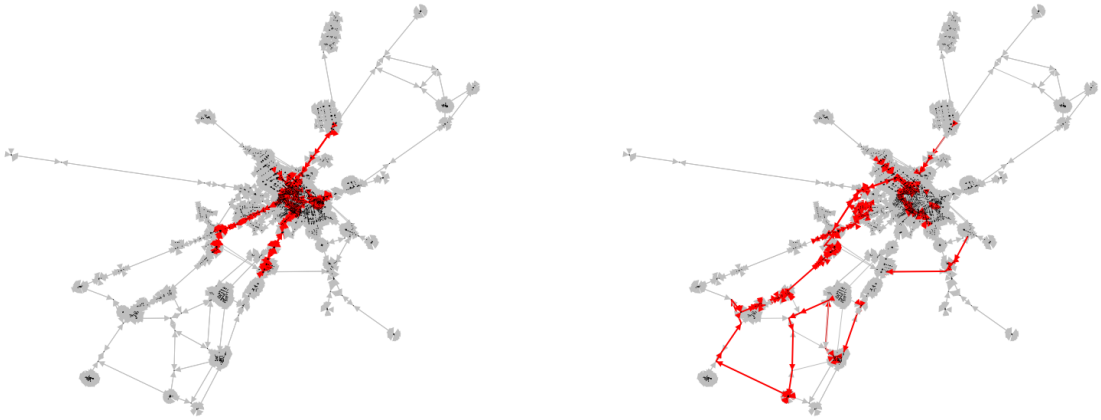


Figure 1: Comparison of the spatial distribution of the top-5% arcs for the city of albacete, before (left side) and after the application of H-EBC algorithm.

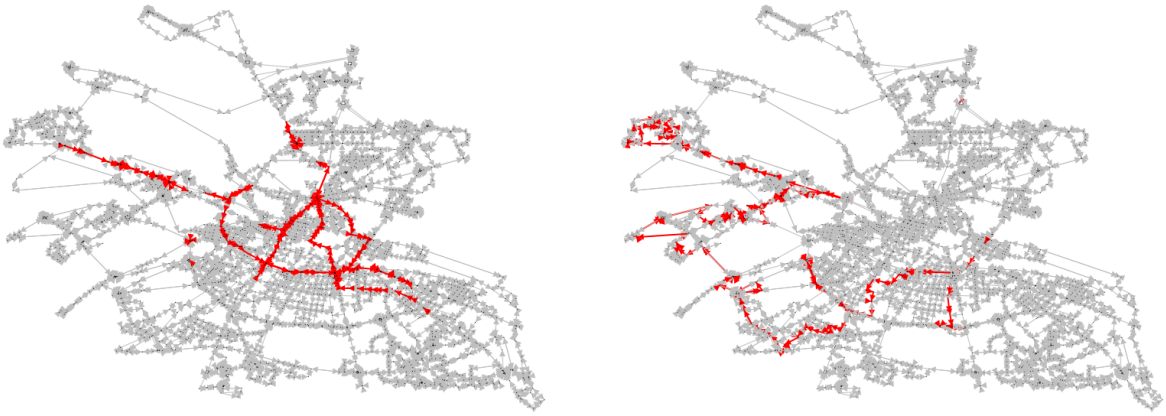


Figure 2: Comparison of the spatial distribution of the top-5% arcs for the city of amiens, before (left side) and after the application of H-EBC algorithm.

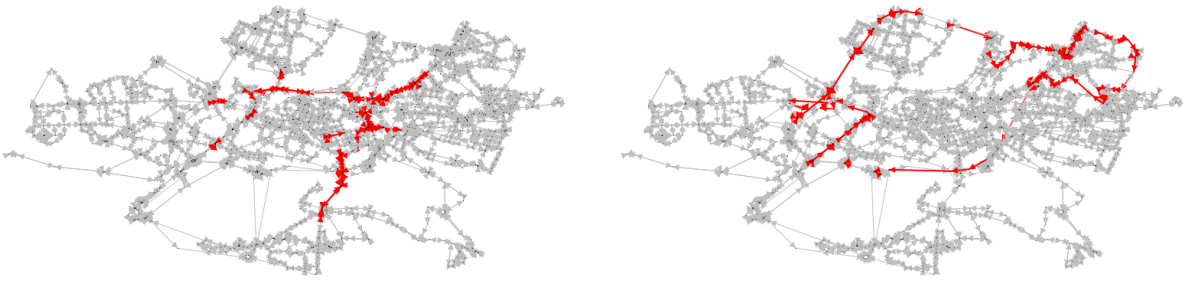


Figure 3: Comparison of the spatial distribution of the top-5% arcs for the city of angouleme, before (left side) and after the application of H-EBC algorithm.

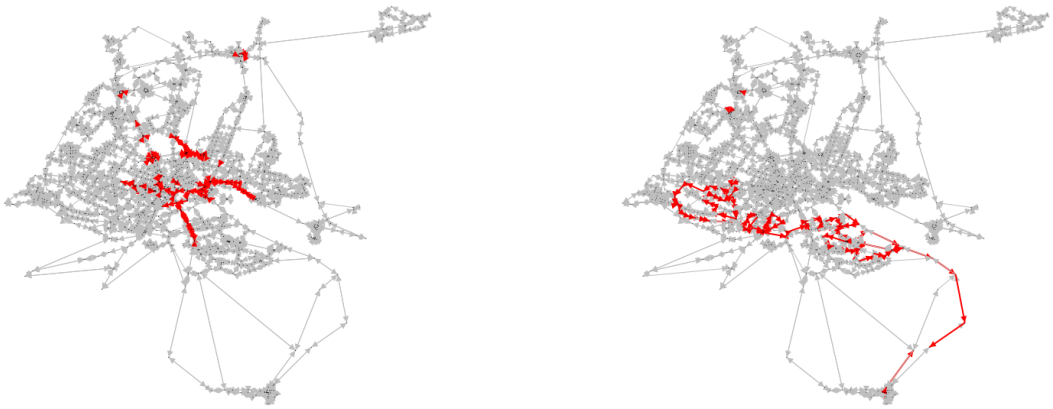


Figure 4: Comparison of the spatial distribution of the top-5% arcs for the city of auxerre, before (left side) and after the application of H-EBC algorithm.

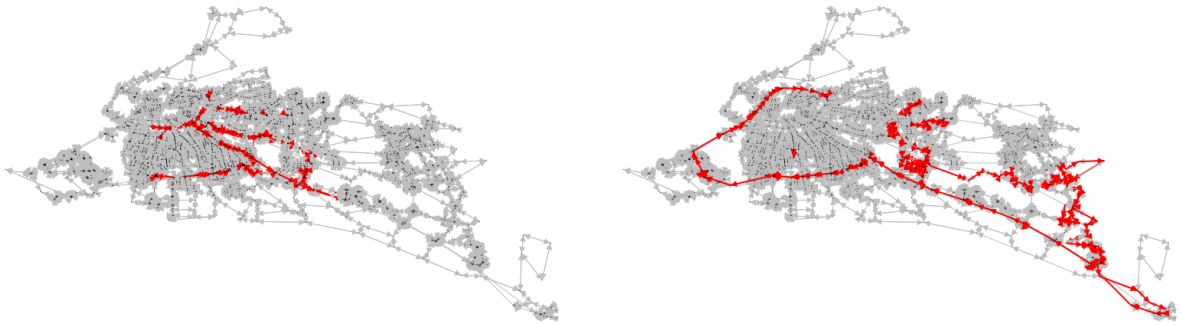


Figure 5: Comparison of the spatial distribution of the top-5% arcs for the city of avignon, before (left side) and after the application of H-EBC algorithm.



Figure 6: Comparison of the spatial distribution of the top-5% arcs for the city of baguio, before (left side) and after the application of H-EBC algorithm.

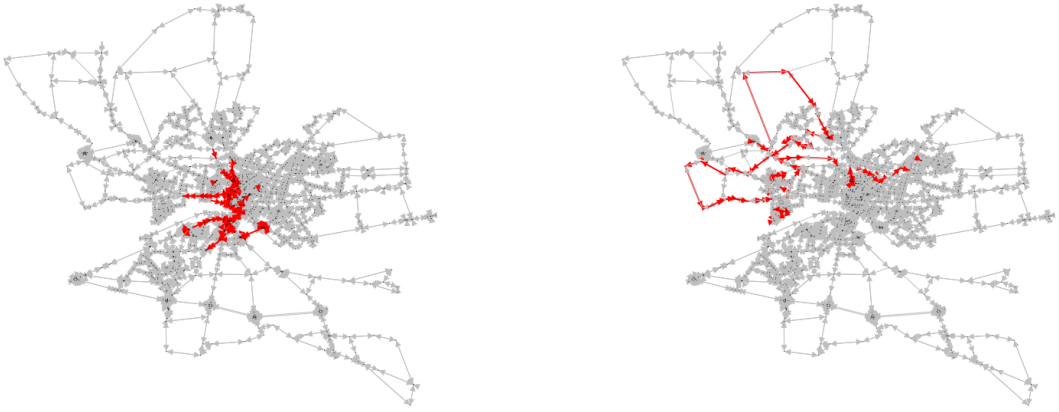


Figure 7: Comparison of the spatial distribution of the top-5% arcs for the city of bergerac, before (left side) and after the application of H-EBC algorithm.

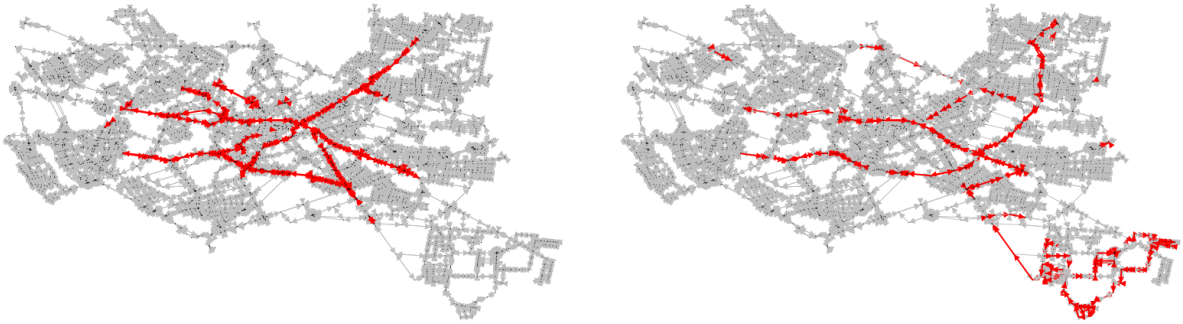


Figure 8: Comparison of the spatial distribution of the top-5% arcs for the city of bialystok, before (left side) and after the application of H-EBC algorithm.

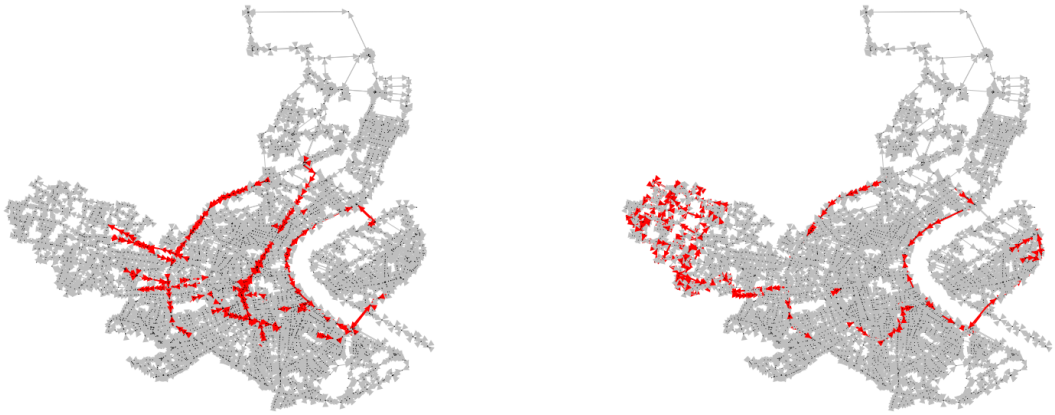


Figure 9: Comparison of the spatial distribution of the top-5% arcs for the city of bordeaux, before (left side) and after the application of H-EBC algorithm.



Figure 10: Comparison of the spatial distribution of the top-5% arcs for the city of boulder, before (left side) and after the application of H-EBC algorithm.

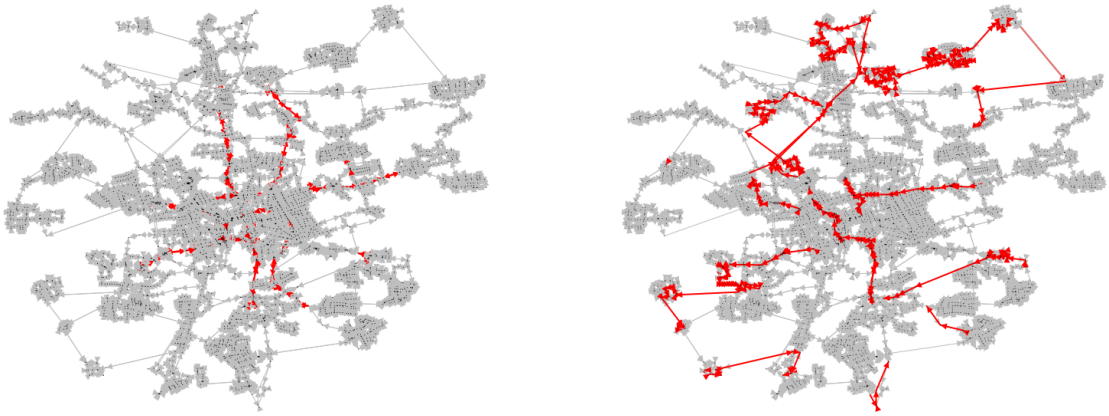


Figure 11: Comparison of the spatial distribution of the top-5% arcs for the city of brunswick, before (left side) and after the application of H-EBC algorithm.



Figure 12: Comparison of the spatial distribution of the top-5% arcs for the city of brussels, before (left side) and after the application of H-EBC algorithm.

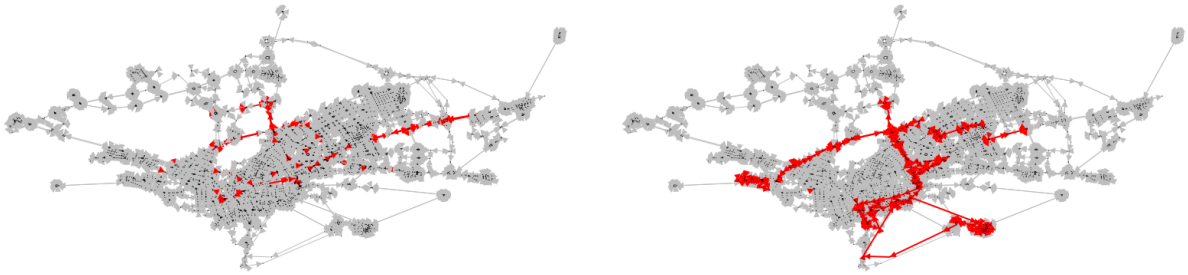


Figure 13: Comparison of the spatial distribution of the top-5% arcs for the city of burgos, before (left side) and after the application of H-EBC algorithm.



Figure 14: Comparison of the spatial distribution of the top-5% arcs for the city of catania, before (left side) and after the application of H-EBC algorithm.

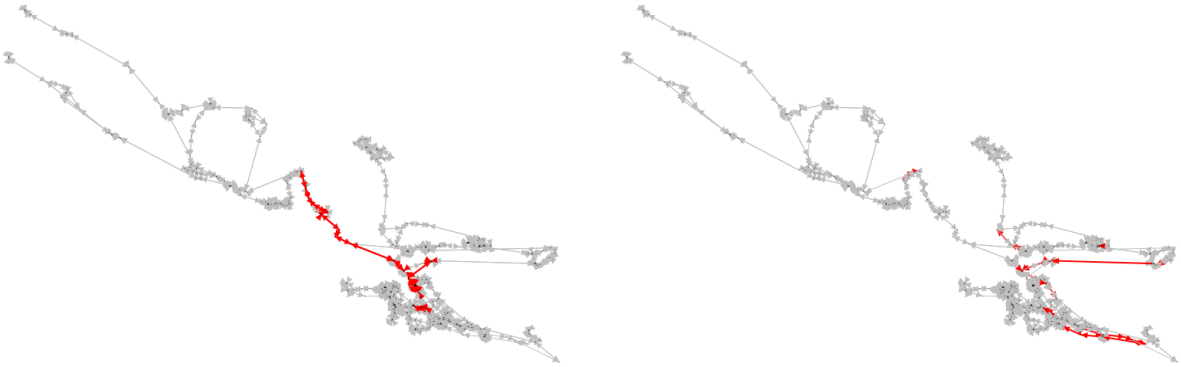


Figure 15: Comparison of the spatial distribution of the top-5% arcs for the city of dubrovnik, before (left side) and after the application of H-EBC algorithm.



Figure 16: Comparison of the spatial distribution of the top-5% arcs for the city of fougeres, before (left side) and after the application of H-EBC algorithm.

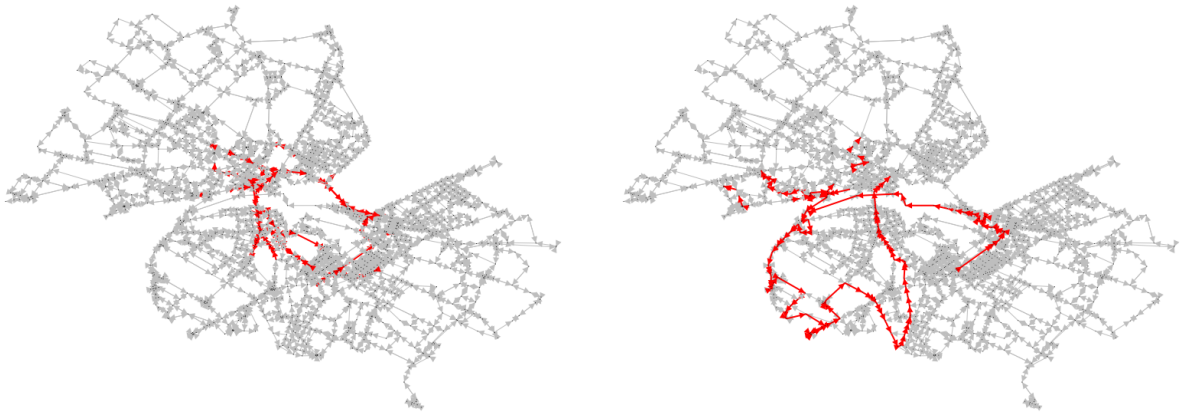


Figure 17: Comparison of the spatial distribution of the top-5% arcs for the city of geneva, before (left side) and after the application of H-EBC algorithm.

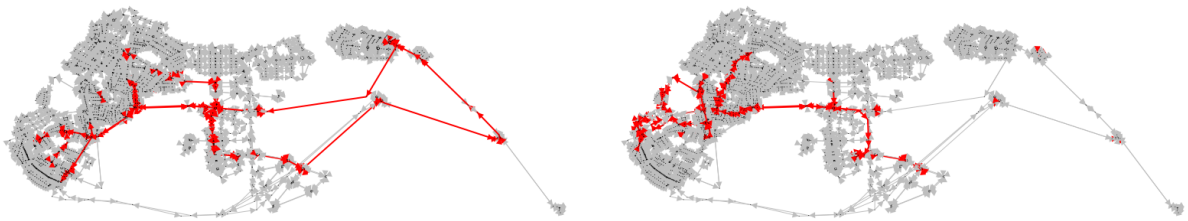


Figure 18: Comparison of the spatial distribution of the top-5% arcs for the city of getafe, before (left side) and after the application of H-EBC algorithm.

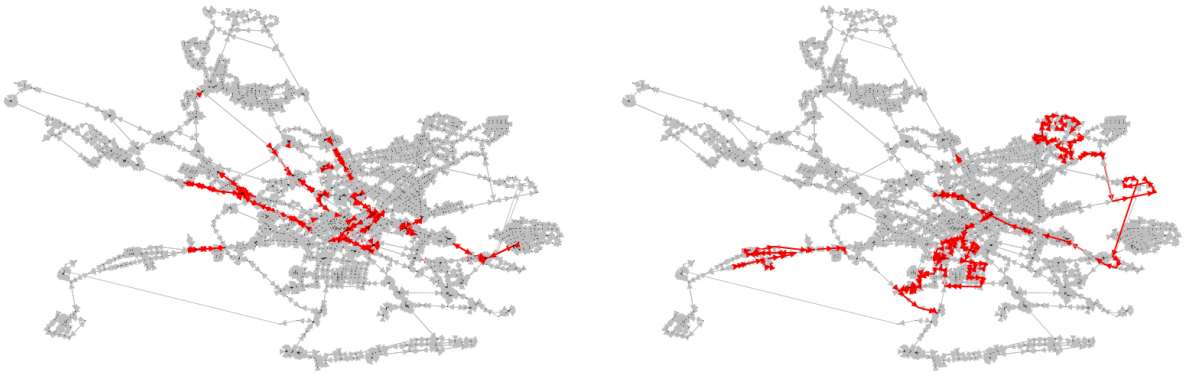


Figure 19: Comparison of the spatial distribution of the top-5% arcs for the city of gliwice, before (left side) and after the application of H-EBC algorithm.

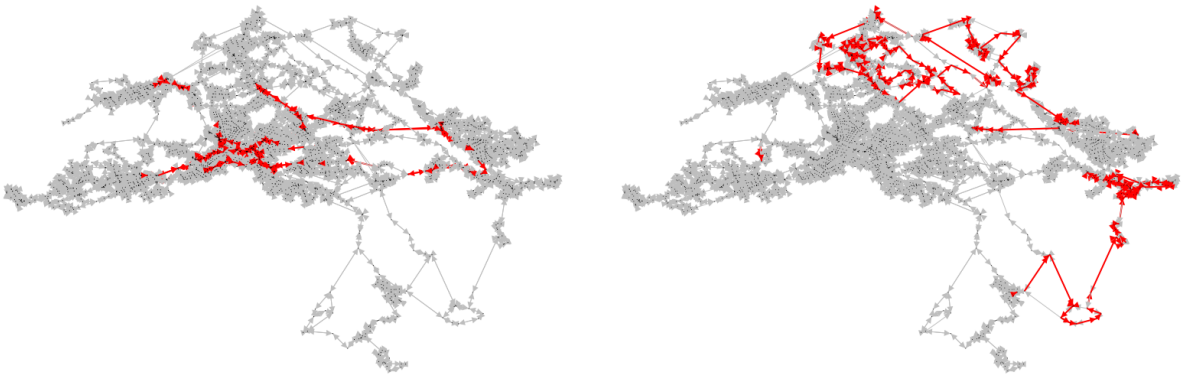


Figure 20: Comparison of the spatial distribution of the top-5% arcs for the city of hagen, before (left side) and after the application of H-EBC algorithm.

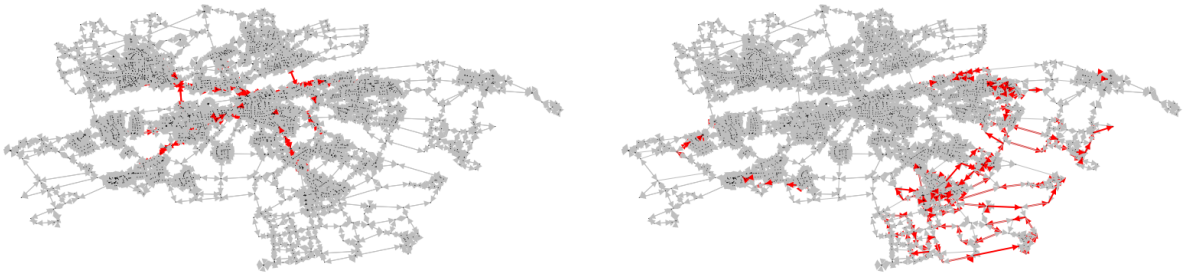


Figure 21: Comparison of the spatial distribution of the top-5% arcs for the city of hamm, before (left side) and after the application of H-EBC algorithm.



Figure 22: Comparison of the spatial distribution of the top-5% arcs for the city of krabi, before (left side) and after the application of H-EBC algorithm.

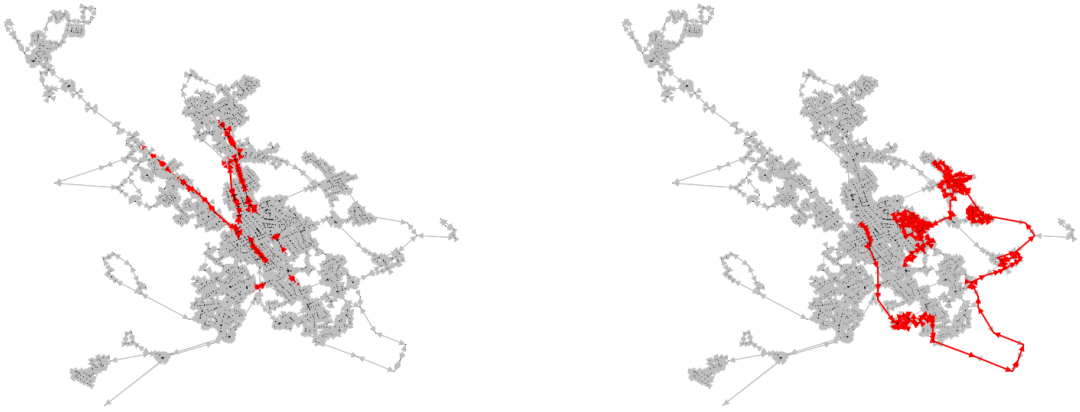


Figure 23: Comparison of the spatial distribution of the top-5% arcs for the city of launceston, before (left side) and after the application of H-EBC algorithm.

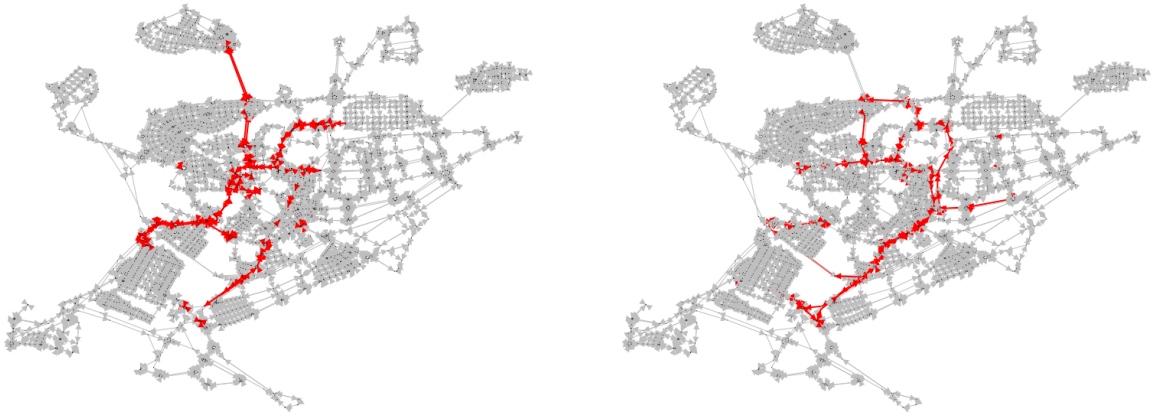


Figure 24: Comparison of the spatial distribution of the top-5% arcs for the city of leganes, before (left side) and after the application of H-EBC algorithm.

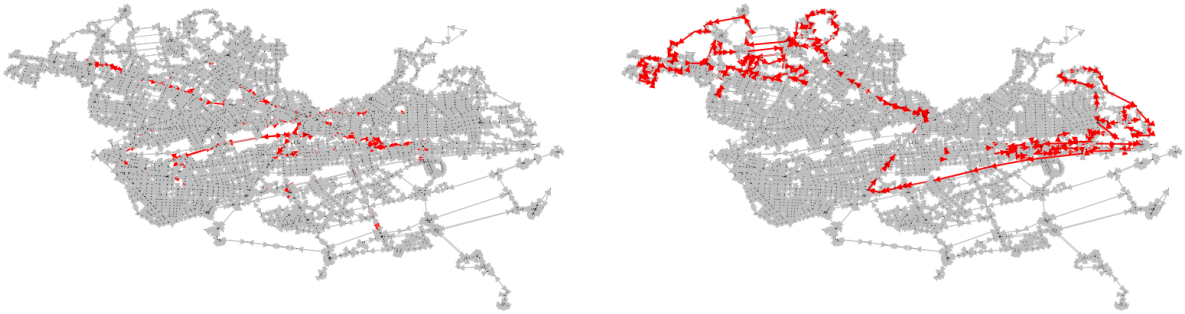


Figure 25: Comparison of the spatial distribution of the top-5% arcs for the city of lehavre, before (left side) and after the application of H-EBC algorithm.

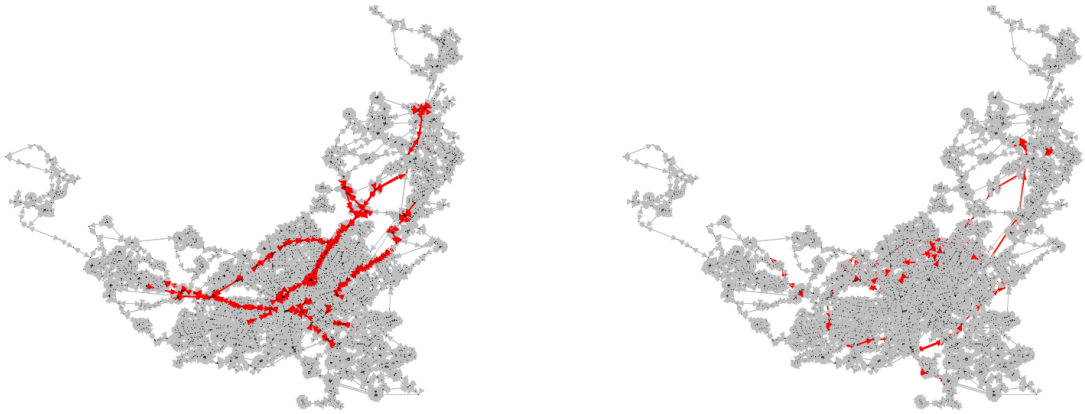


Figure 26: Comparison of the spatial distribution of the top-5% arcs for the city of limoges, before (left side) and after the application of H-EBC algorithm.

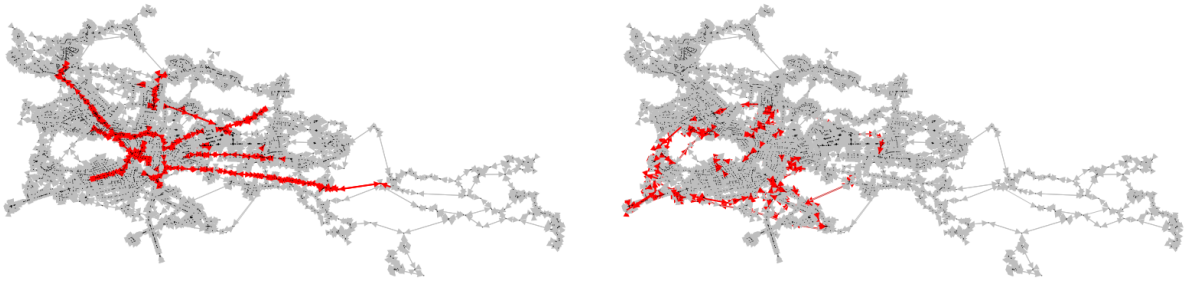


Figure 27: Comparison of the spatial distribution of the top-5% arcs for the city of ljubljana, before (left side) and after the application of H-EBC algorithm.

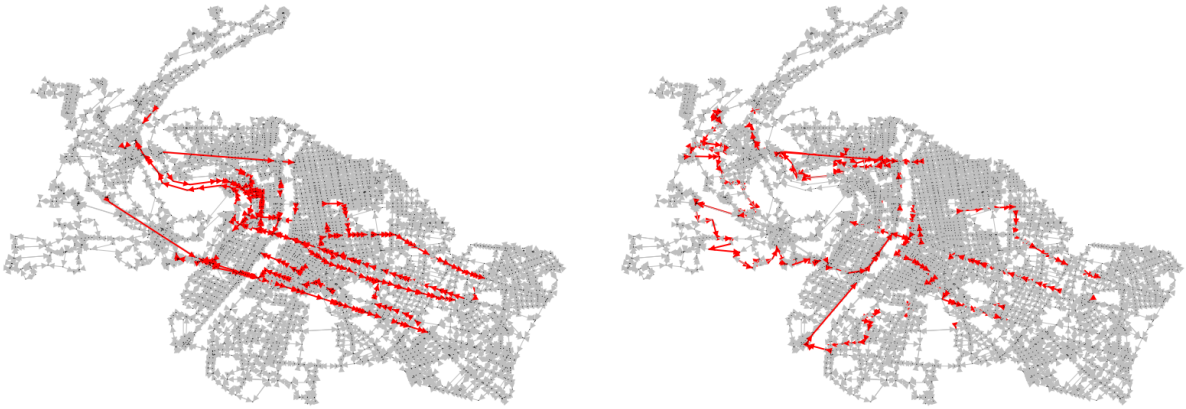


Figure 28: Comparison of the spatial distribution of the top-5% arcs for the city of lyon, before (left side) and after the application of H-EBC algorithm.

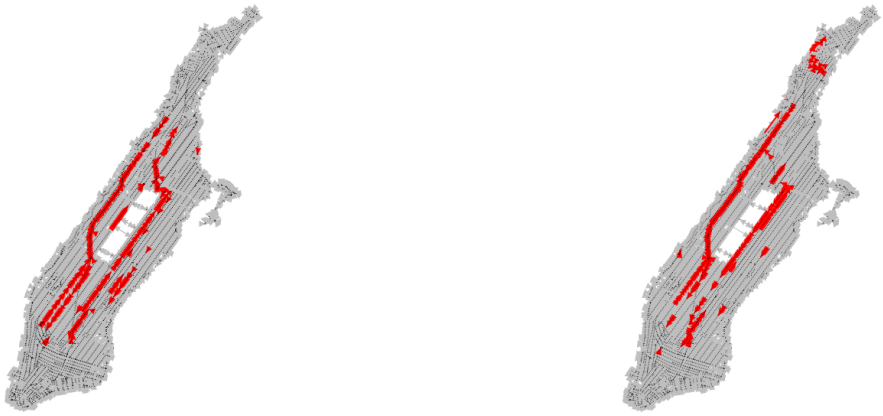


Figure 29: Comparison of the spatial distribution of the top-5% arcs for the city of manhattan, before (left side) and after the application of H-EBC algorithm.

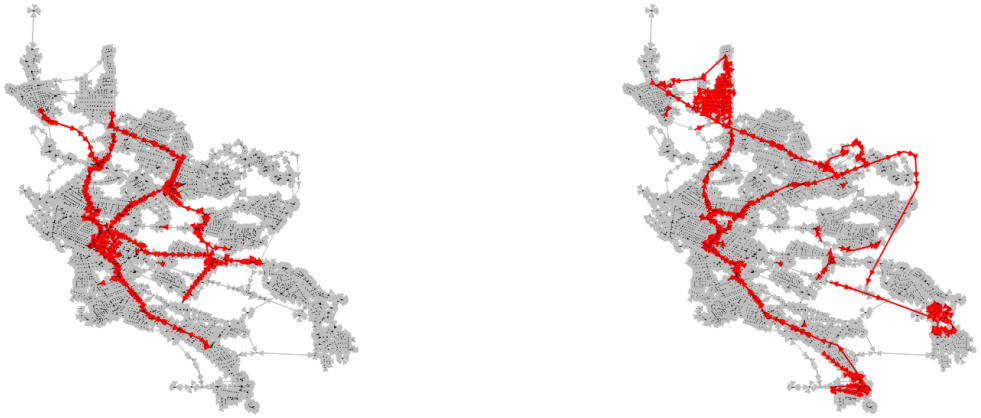


Figure 30: Comparison of the spatial distribution of the top-5% arcs for the city of mannheim, before (left side) and after the application of H-EBC algorithm.



Figure 31: Comparison of the spatial distribution of the top-5% arcs for the city of mostoles, before (left side) and after the application of H-EBC algorithm.

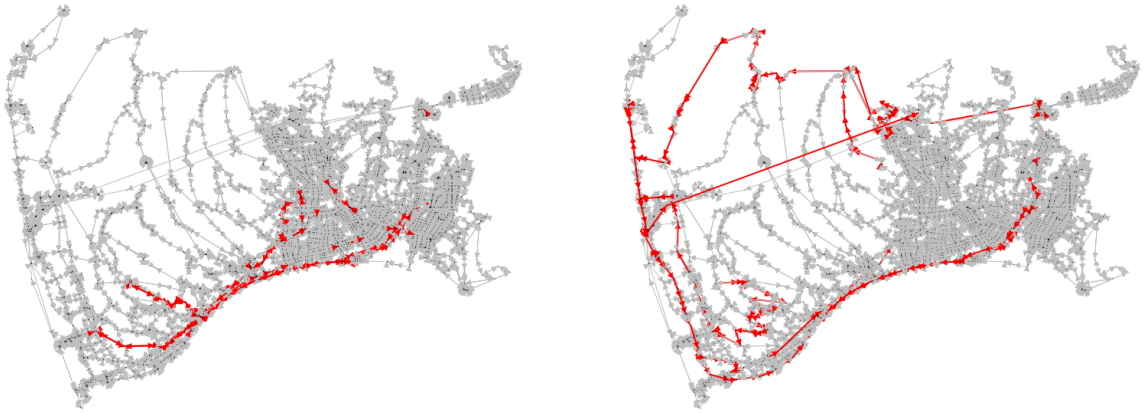


Figure 32: Comparison of the spatial distribution of the top-5% arcs for the city of nice, before (left side) and after the application of H-EBC algorithm.



Figure 33: Comparison of the spatial distribution of the top-5% arcs for the city of noosaheads, before (left side) and after the application of H-EBC algorithm.

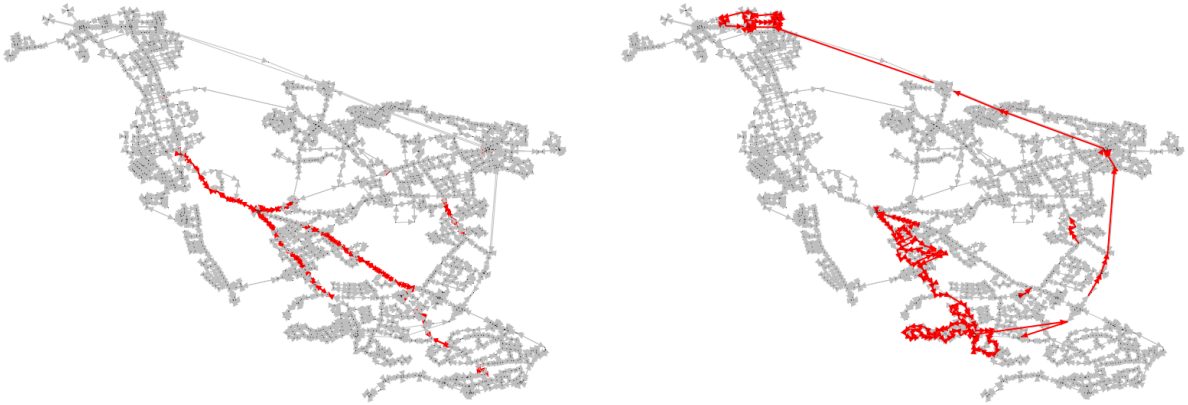


Figure 34: Comparison of the spatial distribution of the top-5% arcs for the city of oxford, before (left side) and after the application of H-EBC algorithm.

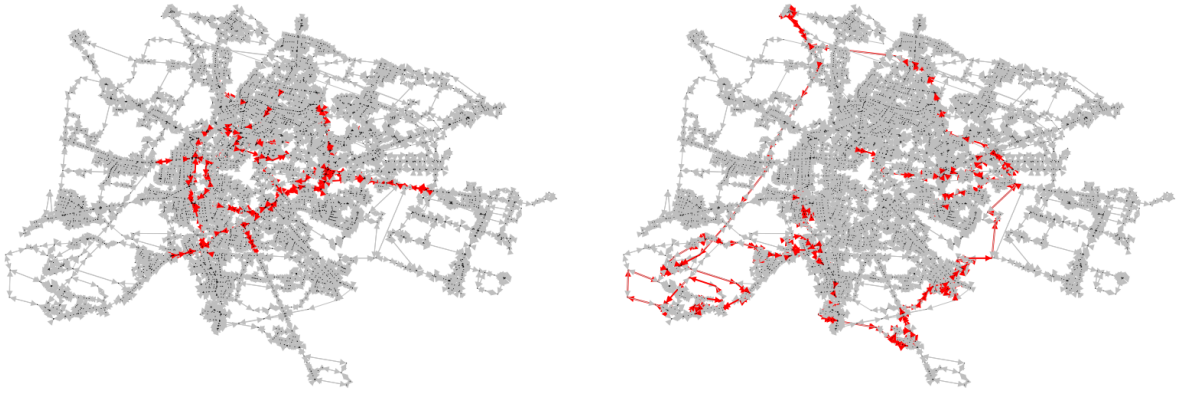


Figure 35: Comparison of the spatial distribution of the top-5% arcs for the city of padua, before (left side) and after the application of H-EBC algorithm.



Figure 36: Comparison of the spatial distribution of the top-5% arcs for the city of pattaya, before (left side) and after the application of H-EBC algorithm.



Figure 37: Comparison of the spatial distribution of the top-5% arcs for the city of perigueux, before (left side) and after the application of H-EBC algorithm.

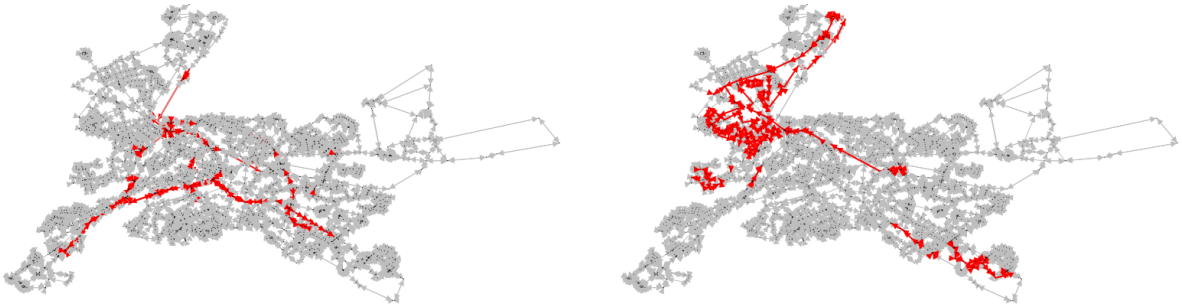


Figure 38: Comparison of the spatial distribution of the top-5% arcs for the city of poitiers, before (left side) and after the application of H-EBC algorithm.



Figure 39: Comparison of the spatial distribution of the top-5% arcs for the city of prato, before (left side) and after the application of H-EBC algorithm.

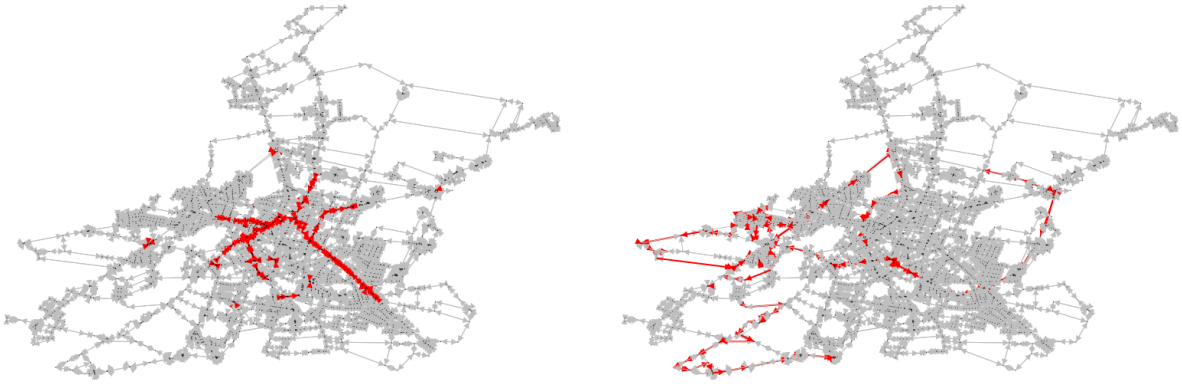


Figure 40: Comparison of the spatial distribution of the top-5% arcs for the city of radom, before (left side) and after the application of H-EBC algorithm.

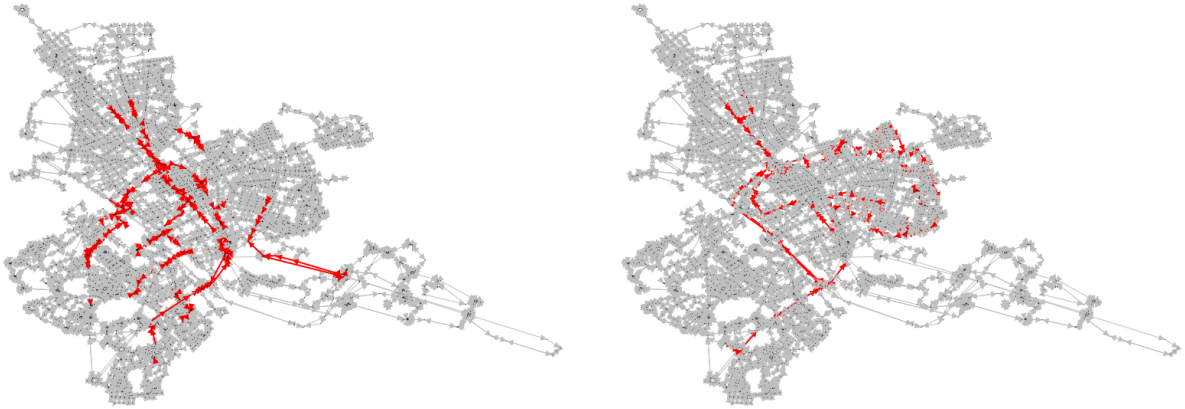


Figure 41: Comparison of the spatial distribution of the top-5% arcs for the city of reims, before (left side) and after the application of H-EBC algorithm.

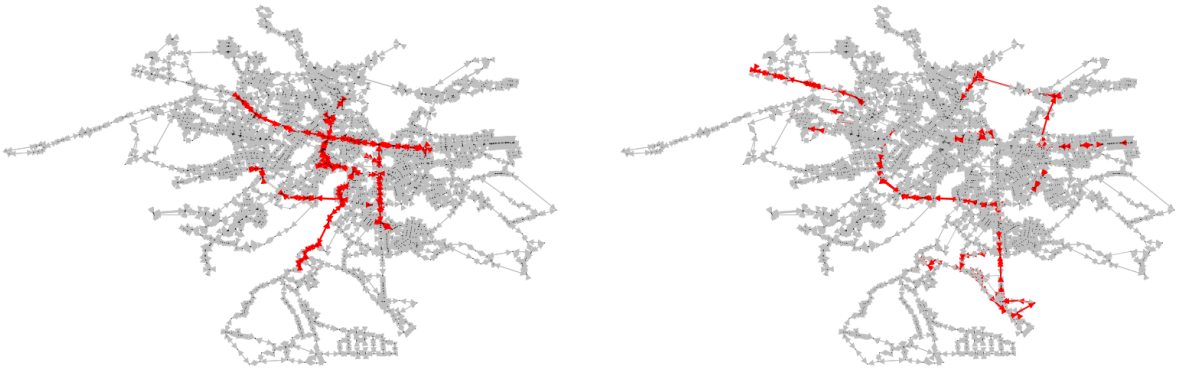


Figure 42: Comparison of the spatial distribution of the top-5% arcs for the city of rzeszow, before (left side) and after the application of H-EBC algorithm.



Figure 43: Comparison of the spatial distribution of the top-5% arcs for the city of saarbrucken, before (left side) and after the application of H-EBC algorithm.

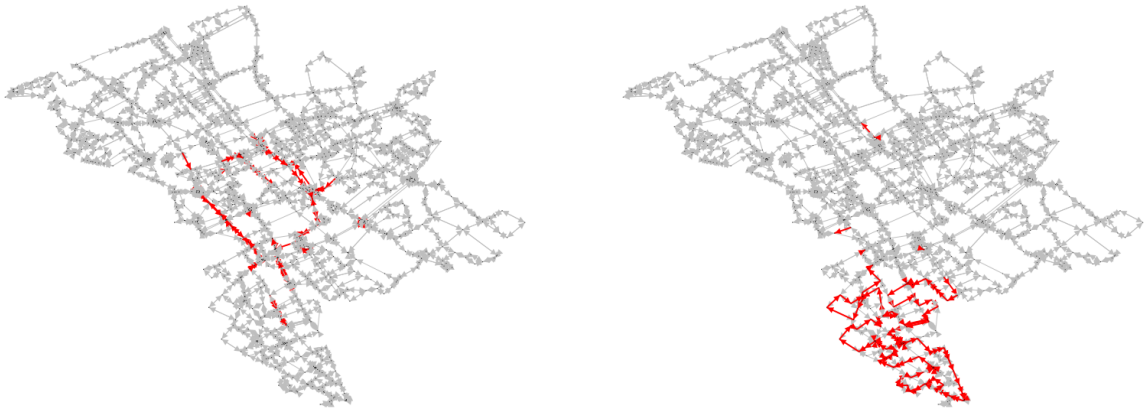


Figure 44: Comparison of the spatial distribution of the top-5% arcs for the city of troyes, before (left side) and after the application of H-EBC algorithm.



Figure 45: Comparison of the spatial distribution of the top-5% arcs for the city of valladolid, before (left side) and after the application of H-EBC algorithm.



Figure 46: Comparison of the spatial distribution of the top-5% arcs for the city of vichy, before (left side) and after the application of H-EBC algorithm.

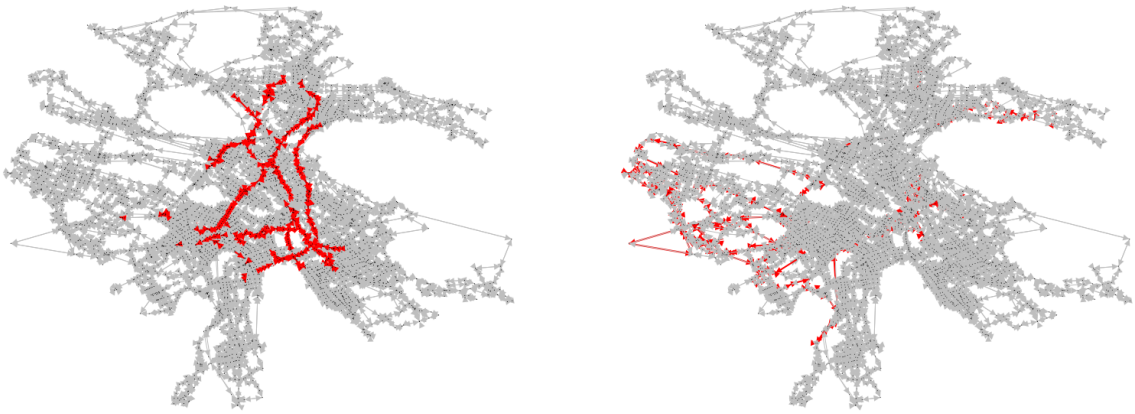


Figure 47: Comparison of the spatial distribution of the top-5% arcs for the city of zurich, before (left side) and after the application of H-EBC algorithm.