









Unit	Image	Distance between chosen node and center node (m)	Cc(node) 1/km	Average distance all nodes to chosen node	Average edges length	Total nodes number	Normalized Centrality 1/km	std	Percentage Deviation CN(v)	Percentage Deviation std	Percentage Deviation edges length
Catchment area 1		0	0.000999	997.837488	71.500000	1003	1.002167	445.434300	100.000000	100.000000	100.000000
Catchment area 2		50	0.000989	1002.344896	71.228276	1009	0.997661	448.671811	99.550314	100.726821	99.619966
Catchment area 3		100	0.000995	1000.055721	71.402624	1005	0.999944	448.205327	99.778189	100.622096	99.863810
Catchment area 4		200	0.000988	1004.625621	71.626117	1007	0.995396	451.891057	99.324312	101.449542	100.176387
Catchment area 5		300	0.000982	1013.680597	71.315681	1005	0.986504	462.250903	98.437071	103.775327	99.742211
Catchment area 6		500	0.000944	1048.883168	72.206589	1010	0.953395	494.827587	95.133330	111.088793	100.988236
Catchment area 7		1000	0.000804	1200.124517	72.627845	1036	0.833247	607.619398	83.144497	136.410554	101.577405
Catchment area 8		1500	0.000714	1397.797405	74.703961	1002	0.715411	701.524078	71.386417	157.492155	104.481064

Table 1: Catchment areas 1 Piazza Malpighi with different center nodes and indicator values of (red) node under investigation in the selected catchment areas.









Unit	Image	Distance between chosen node and center node (m)	Cc(node) 1/km	Average distance all nodes to chosen node	Average edges length	Total nodes number	Normalized Centrality 1/km	std	Percentage Deviation CN(v)	Percentage Deviation std	Percentage Deviation edges length
area 1		0	0.001003	976.285015	73.011580	1021	1.024291	494.536764	100.000000	100.000000	100.000000
area 2		50	0.001016	973.031621	73.078929	1012	1.027716	496.538991	100.334356	100.404869	100.092244
area 3		100	0.001005	980.006897	73.777930	1015	1.020401	504.686516	99.620219	102.052376	101.049628
area 4		200	0.001021	978.080919	73.615972	1001	1.022410	509.364455	99.816385	102.998299	100.827803
area 5		300	0.000987	997.071850	74.123448	1016	1.002937	522.010576	97.915212	105.555464	101.522865
area 6		500	0.000997	1009.347082	74.900844	994	0.990739	539.590963	96.724410	109.110384	102.587622
area 7		1000	0.000940	1162.946448	78.097918	915	0.859885	653.068820	83.949267	132.056677	106.966481
area 8		1500	0.000759	1557.879433	85.046769	846	0.641898	716.355924	62.667559	144.853927	116.483944

Table 2: Catchment areas 2 Due Torri - Piazza di Porta Ravennana with different center nodes and indicator values of (blue) node under investigation in the selected catchment areas.









Unit	Image	Distance between chosen node and center node (m)	Cc(node) 1/km	Average distance all nodes to chosen node	Average edges length	Total nodes number	Normalized Centrality 1/km	std	Percentage Deviation CN(v)	Percentage Deviation std	Percentage Deviation edges length
Catchment area 1		0	0.001051	1221.731707	79.414612	779	0.818510	443.240409	100.000000	100.000000	100.000000
Catchment area 2		50	0.001065	1217.329442	80.100368	771	0.821470	441.667534	100.361633	99.645142	100.863514
Catchment area 3		100	0.001052	1224.673969	80.318894	776	0.816544	446.604123	99.759751	100.758892	101.138685
Catchment area 4		200	0.001036	1240.622108	82.156481	778	0.806047	460.356932	98.477345	103.861679	103.452601
Catchment area 5		300	0.001045	1247.907432	83.048780	767	0.801341	469.587542	97.902431	105.944208	104.576196
Catchment area 6		500	0.000997	1314.180865	85.664129	763	0.760930	538.340576	92.965264	121.455663	107.869481
Catchment area 7		1000	0.000884	1496.730159	86.293189	756	0.668123	609.804827	81.626718	137.578798	108.661601
Catchment area 8		1500	0.000736	1717.620733	85.152445	791	0.582201	654.629462	71.129306	147.691738	107.225160

Table 3: Catchment areas 3 Porta Santo Stefano with different center nodes and indicator values of (green) node under investigation in the selected catchment areas.

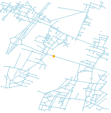
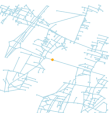
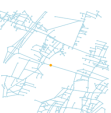
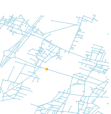

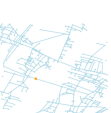
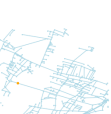
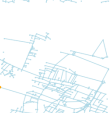
Unit	Image	Distance between chosen node and center node (m)	Cc(node) 1/km	Average distance all nodes to chosen node	Average edges length	Total nodes number	Normalized Centrality 1/km	std	Percentage Deviation CN(v)	Percentage Deviation std	Percentage Deviation edges length
Catchment area 1		0	0.001305	1532.396000	97.324873	500	0.652573	527.801325	100.000000	100.000000	100.000000
Catchment area 2		50	0.001269	1541.671233	97.379139	511	0.648647	527.931307	99.398365	100.024627	100.055758
Catchment area 3		100	0.001265	1526.451737	98.031046	518	0.655114	509.827865	100.389417	96.594654	100.725583
Catchment area 4		200	0.001251	1528.592734	97.599354	523	0.654196	511.674950	100.248808	96.944613	100.282025
Catchment area 5		300	0.001224	1529.756554	92.696682	534	0.653699	506.532370	100.172540	95.970272	95.244596
Catchment area 6		500	0.001252	1530.350575	95.724026	522	0.653445	512.077473	100.133657	97.020877	98.355151
Catchment area 7		1000	0.001240	1593.557312	94.192496	506	0.627527	512.398323	96.161963	97.081667	96.781525
Catchment area 8		1500	0.000966	2175.235294	99.737391	476	0.459720	706.486435	70.447367	133.854616	102.478830

Table 4: Catchment areas 4 West suburb Borgo Panigale with different center nodes and indicator values of (green) node under investigation in the selected catchment areas.









Unit	Image	Distance between chosen node and center node (m)	Cc(node) 1/km	Average distance all nodes to chosen node	Average edges length	Total nodes number	Normalized Centrality 1/km	std	Percentage Deviation CN(v)	Percentage Deviation std	Percentage Deviation edges length
Catchment area 1		0	0.001293	1303.937605	87.607643	593	0.766908	509.639334	100.000000	100.000000	100.000000
Catchment area 2		50	0.001250	1320.531353	87.160891	606	0.757271	516.187603	98.743404	101.284883	99.490053
Catchment area 3		100	0.001215	1335.597403	87.331311	616	0.748729	524.563331	97.629540	102.928345	99.684579
Catchment area 4		200	0.001124	1381.655280	86.929234	644	0.723770	552.525719	94.375032	108.415046	99.225628
Catchment area 5		300	0.001098	1403.770416	86.777019	649	0.712367	570.344884	92.888238	111.911473	99.051882
Catchment area 6		500	0.001008	1466.872781	87.389130	676	0.681722	612.791610	88.892344	120.240250	99.750578
Catchment area 7		1000	0.000848	1666.334746	88.579167	708	0.600120	737.251153	78.251840	144.661352	101.108948
Catchment area 8		1500	0.000579	2201.450955	85.674352	785	0.454246	950.939254	59.230827	186.590632	97.793239

Table 5: Catchment areas 5 South suburb Savena with different center nodes and indicator values of (green) node under investigation in the selected catchment areas.