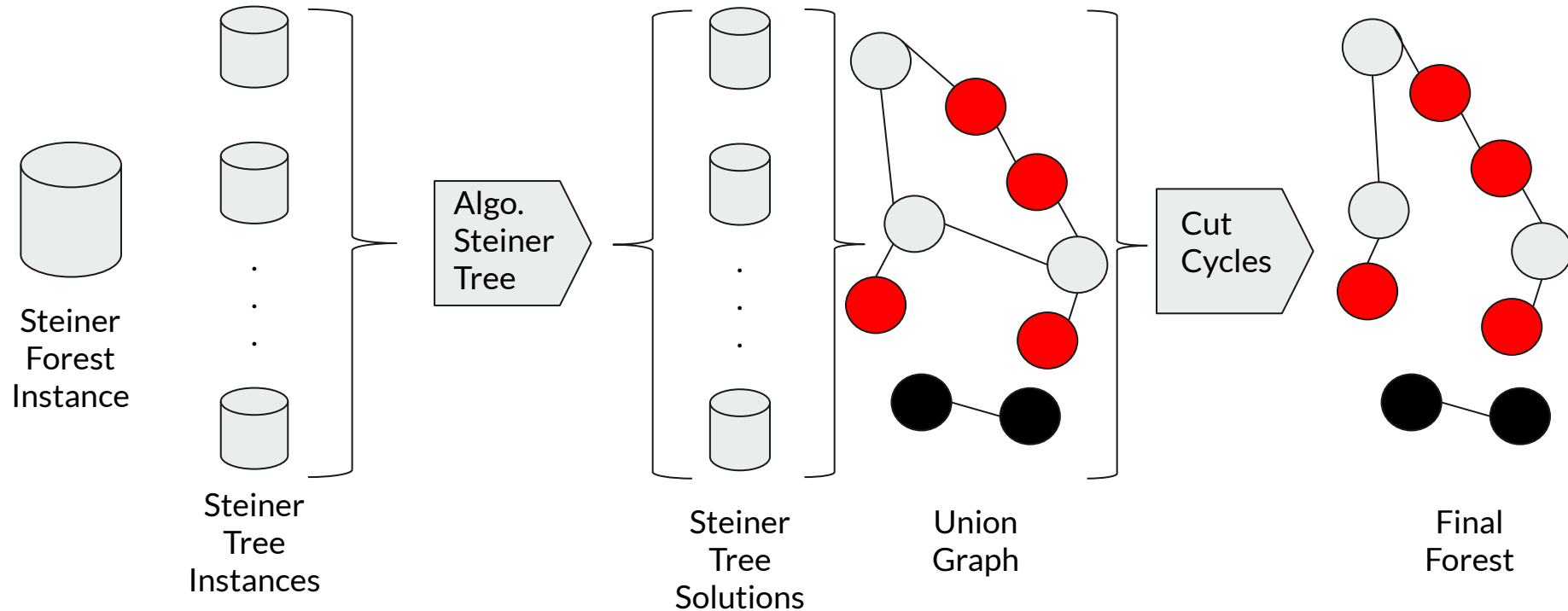
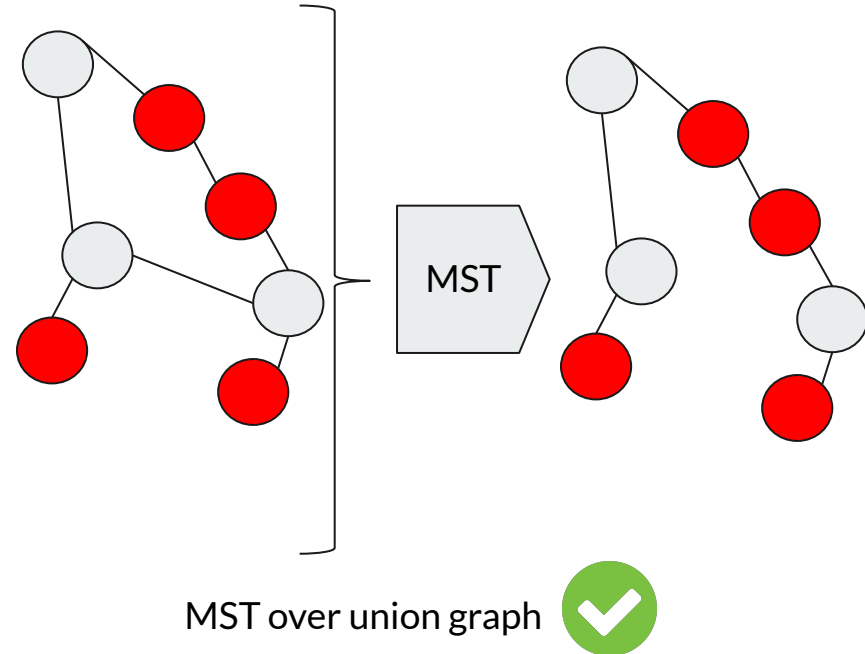
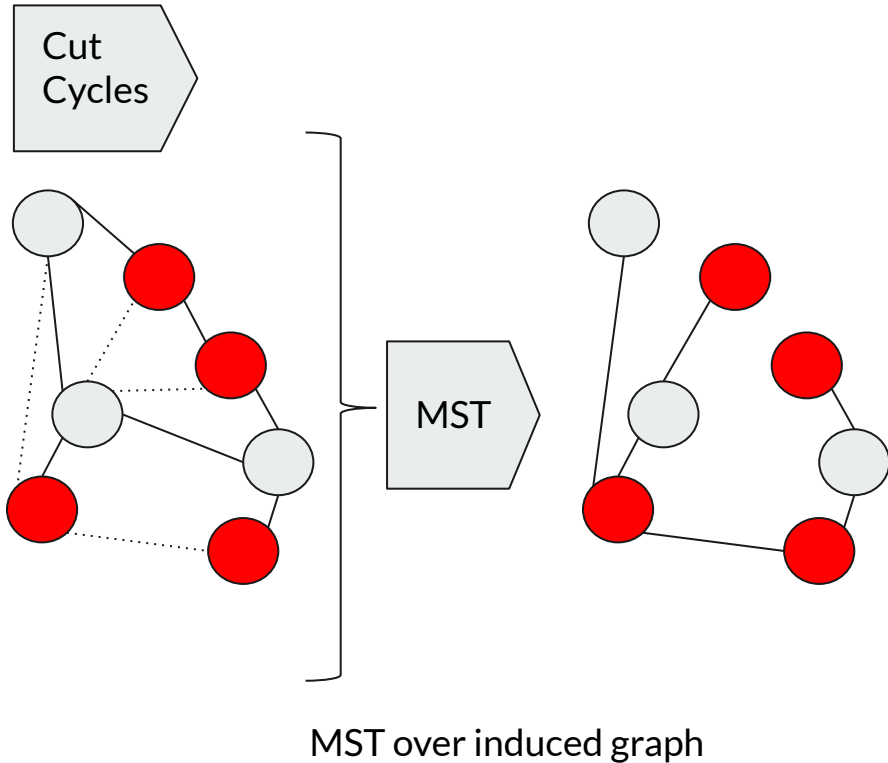


Algoritmo Floresta de Steiner

Overview



Prune Strategy



Experimental results

Steiner Forest Data Set

| | Opções |
|-----------------------|--------------------------------|
| Vértices | 25/ 50/ 100/ 200/ 500 |
| Arestas | 160/ 200 |
| Conjunto de terminais | 2/ 3/ 4/ 5/ 10/ 15/ 20/ 35/ 50 |

Table 1: Conjunto JMP de instâncias

| | Opções |
|-----------------------|-------------------------------|
| Vértices | 10/ 15/ 20 |
| Arestas | 20/ 30/ 45/ 50/ 100/ 105/ 190 |
| Conjunto de terminais | 3/ 4/ 5/ 6 |

Table 2: Conjunto MR de instâncias

| Inst. | Vertices | Conexões | Terminais | Sol. Ótima |
|-------|----------|----------|-----------|------------|
| b4781 | 50 | 200 | 5 | 89 |
| b4786 | 100 | 200 | 5 | 350 |
| b4791 | 100 | 200 | 10 | 359 |
| b4911 | 100 | 200 | 15 | 480 |
| b5192 | 500 | 200 | 35 | 3587.5 |
| b5226 | 500 | 200 | 50 | 5285 |

Table 3: Instâncias de aplicação

| heurística | tempo (s) | Sol. Ótima | % sol. Ótima |
|------------|-----------|------------|--------------|
| 122 | 0.20 | 89 | 1.37 |
| 531 | 0.77 | 350 | 1.51 |
| 377 | 0.59 | 359 | 1.05 |
| 728 | 1.49 | 480 | 1.51 |
| 8041 | 38.25 | 3587 | 2.24 |
| 8489 | 95.69 | 5285 | 1.60 |