

PUBLISHER CORRECTION

Open Access



# Publisher Correction: Towards negative cycle canceling in wind farm cable layout optimization

Sascha Gritzbach\*, Torsten Ueckerdt, Dorothea Wagner, Franziska Wegner and Matthias Wolf

\* Correspondence: [sascha.gritzbach@kit.edu](mailto:sascha.gritzbach@kit.edu)  
Karlsruhe Institute of Technology,  
Department of Theoretical  
Informatics, Karlsruhe, Germany

## Correction

In the original publication of this article (Gritzbach et al. 2018), an incorrect version of Algorithm 1 was used. In this correction article the corrected version of Algorithm 1 is shown. The original publication of this article has been corrected.

---

### Algorithm 1: Our Heuristic for WCP

---

**Input:** A wind farm  $\mathcal{N} = (G, V_T, V_S, \text{len}, \text{cap}_{\text{sub}}, c)$ .

**Result:** A feasible flow  $f$  on  $G$  whose costs cannot be improved by canceling negative cycles in any residual graph.

```
1  $f(e) := 0 \quad \forall e \in E$ 
2 for  $u \in V_T$  do
3    $\pi := \text{BFS}(\mathcal{N}, u, f)$  ▷ ignores all edges and substations without free capacity
4    $f(e)++ \quad \forall e \in \pi$ 
5  $\Delta := 0$ 
6 while  $\Delta < 2 \cdot \max\{x \in \mathbb{Z} : c(x) < \infty\}$  do
7    $\Delta++$ ;  $\Delta' := \Delta$ 
8    $R := \text{getResidualGraph}(\mathcal{N}, f, \Delta)$ 
9    $W := \text{NegativeCycleDetection}(R)$  ▷ Bellman-Ford Algorithm
10  for cycle  $C$  in  $W$  do
11    if  $\sum_{e \in C} \gamma(e) < 0$  and  $|C| > 2$  then
12       $f := \text{NegativeCycleCancellation}(C, f, \Delta)$  ▷ see Eq. 6
13       $\Delta' := 0$ 
14     $\Delta := \Delta'$ 
```

---

The publisher apologises to the readers and authors for the inconvenience.

Received: 15 October 2018 Accepted: 15 October 2018  
Published online: 21 November 2018

## Reference

Gritzbach S, Ueckerdt T, Wagner D, Wegner F, Wolf M (2018) Towards negative cycle canceling in wind farm cable layout optimization. *Energy Informatics* 1(Suppl 1). <https://doi.org/10.1186/s42162-018-0030-6>