

Probabilistic Audio Localization in Wireless Acoustic Sensor Networks

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Algorithm 1 Multiple Source Sound Localization

```
1: GETLOCATIONS( $r, spl, eventList$ )  $\rightarrow$ 
2:  $locations \leftarrow \text{INITLOCATIONLIST}()$ 
3: for all  $e \in eventList$  do
4:    $locations.add(\mathcal{L}_m(r, spl, eventList, e.x, e.y))$ 
5:  $centers \leftarrow \text{AFFINITYPROPAGATION}(locations)$  { $centers$  is a list of  $(x, y, c)$ 
   points where  $c$  is the confidence}
6: return  $centers$ 
```
