Algorithm 4 Bottleneck BiSkFPN Algorithm

```
Require: Input feature maps P = P1, P2, ..., Pn, Deconvolution kernel size K,
     Skip connection feature map skip
Ensure: Fused feature map {\bf F}
 1: function BottleneckBiSkFPN(\mathbf{P}, K, \mathbf{skip})
           \mathbf{P}' \leftarrow \text{upsample } \mathbf{P}n \text{ by deconvolution with kernel size } K
           \mathbf{F} \leftarrow \operatorname{concat}\left(\mathbf{P}n, \mathbf{P}'\right)
 3:
           for i \leftarrow n-1 to 1 do
 4:
                \mathbf{P}' \leftarrow upsample \mathbf{F} by deconvolution with kernel size K
 5:
                \mathbf{F} \leftarrow \operatorname{concat}\left(\mathbf{P}i, \mathbf{P}'\right)
 6:
                \mathbf{F} \leftarrow \mathbf{F} + \operatorname{skip}\left(\mathbf{P}_{i-1}\right)
 7:
           end for
 8:
           return F
 9:
10: end function
```