

DOCTORAL PROGRAM IN ENGINEERING SCIENCES AT ITESO

ADAPTATIVE DISCOVERING ALGORITHM BASED ON NEURAL NETWORKS

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Algorithm 6 - evaluateInputFunction.doc

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Abstract

We present the Algorithm 6 (`evaluateInputFunction`) which is part of the Adaptative Discovering Algorithm based on Neural networks (ADAN algorithm).

Algorithm 6 `evaluateInputFunction`

Require: $features \neq \emptyset \wedge labels \neq \emptyset \wedge batchSize \neq \emptyset$

```
1:  $features \leftarrow dictionary(features)$ 
2: if  $labels = \emptyset$  then
3:    $inputs \leftarrow features$ 
4: else
5:    $inputs \leftarrow (features, labels)$ 
6: end if
7:  $dataSet \leftarrow toSlices(inputs)$ 
8:  $dataSet \leftarrow batch(batchSize)$ 
9: return  $dataSet$ 
```

In Algorithm 6, the `dictionary(arg)` function, in line 1, will return the `arg` passed as dictionary data structure.