DOCTORAL PROGRAM IN ENGINEERING SCIENCES AT ITESO

ADAPTATIVE DISCOVERING ALGORITHM BASED ON NEURAL NETWORKS

Edgar-D. Ramirez-de-L.
Maria-del-P. Pozos-P.
Ivan Villalon-Turrubiates

Algorithm 6 - evaluateInputFunction.doc

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Tlaquepaque, Mexico 45604

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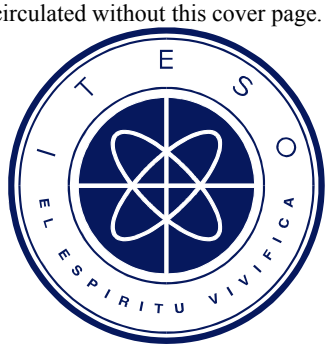

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Tlaquepaque, Mexico 45604
Tel +52 33 3669 3598
E-mail: dci@iteso.mx

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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: $features \neq \varnothing \wedge labels \neq \varnothing \wedge batchSize \neq \varnothing$

1: $features \leftarrow dictionary(features)$
2: **if** $labels = \varnothing$ **then**
3: $\quad inputs \leftarrow features$
4: **else**
5: $\quad inputs \leftarrow (features, labels)$
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.