Verification of Binarized Neural Networks using alpha-beta-CROWN and Marabou

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FMI

Overview

Dataset description

Figure: Some images used in the German Traffic Signs Recognition Benchmark

Dataset description

Properties file name explained here.

Tools

- alpha-beta-CROWN
- Marabou

Experimental Results

#	Tool	Verified	Falsified	Penalty
1	alpha-beta-CROWN	0	39	3
2	Marabou			

Image verification is hard!