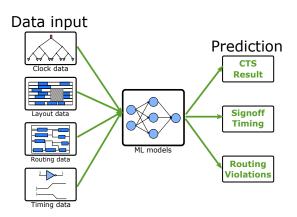


# Algorithm Selection for Legalization Using CNNs

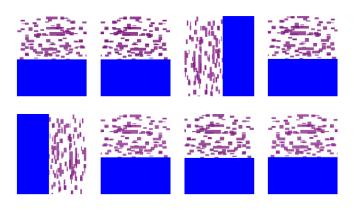
Renan Netto, José Luis Güntzel, Laleh Behjat Federal University of Santa Catarina, University of Calgary

#### Introduction



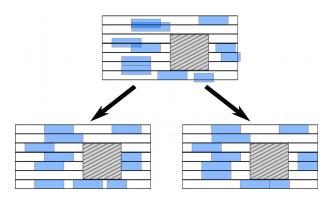
Lack of works using ML in legalization

### Data generation



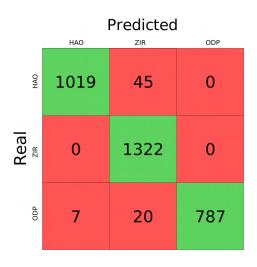
We use circuit snapshots to train CNN

# **Target application**

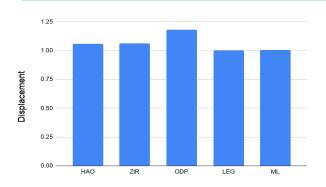


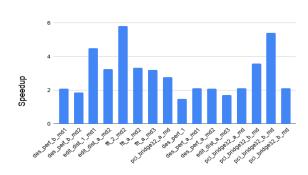
We use ML to select the best legalizer for a placement

#### **Confusion matrix**



# **Experimental results**





ML reduced displacement with almost 6x speedup