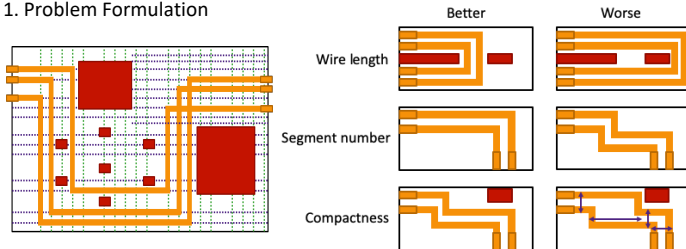
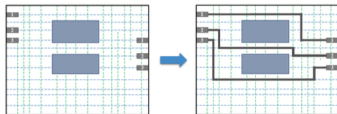


### Obstacle-Aware Topology-Matching On-Track Bus Routing

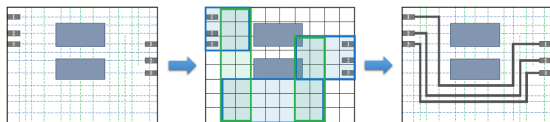
#### 1. Problem Formulation



#### 2. Counterexample: Routing One by One → Weak Topology Consistency



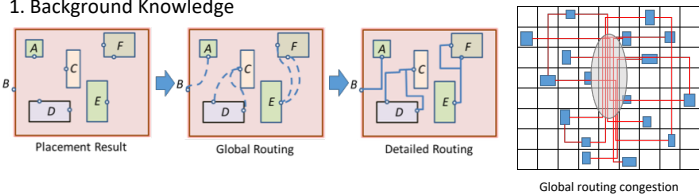
#### 3. Our Methodology: Concurrent and Hierarchical Maze Routing [1]



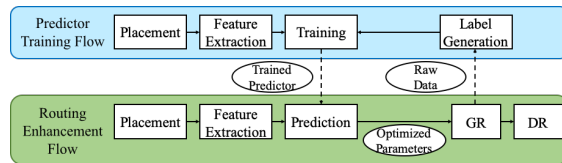
[1] "MARCH: MAze Routing Under a Concurrent and Hierarchical Scheme for Buses", Jingsong Chen *et al.*, DAC 2019.

### Global Routing Enhancement with Deep Learning [2]

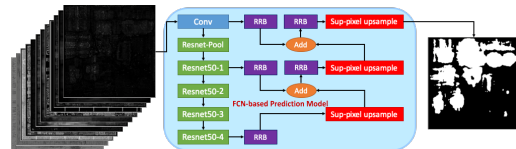
#### 1. Background Knowledge



#### 2. Routing Enhancement by Congestion Prediction using Placement Results



#### 3. Prediction Model



[2] "PROS: a Plug-in for Routability Optimization applied in the State-of-the-art Commercial EDA Tool Using Deep Learning", Jingsong Chen *et al.*, accepted by ICCAD 2020.