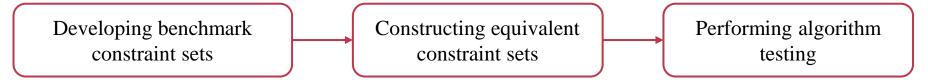
Evaluation

Benchmark Design

- Benchmark Classification: According to summarized rules for generating equivalent R1CS
- Separated Generation: Within each category



• Experiment Result Evaluation

Reasons for Generating Equivalent R1CS Constraints	Number of Groups	Successfully Generated Groups	Pass Rate
Replacement of variable order.	55	55	100%
Reordering of constraint sequences.	21	21	100%
Introduction of multiple new variables in a single linear constraint.	15	15	100%
Introduction of multiple new variables with usage in multiple linear constraints.	15	15	100%
Merging and splitting of constraints.	6	6	100%