

Schewe state reduction on random DPAs with three colors and  $|\Sigma|=8$ . 10 20 30 40 50 60 0 70

Number of states in the original automaton

2.00

1.75

1.50

1.25

1.00

0.75

0.50

0.25

0.00

Number of removed states

Schewe state reduction on random DPAs with three colors and  $|\Sigma|=8$ .

40

Number of states in the original automaton

50

60

70

30

0.5

0.4

0.3

0.2

0.1

0.0

0

10

20

Relative number of removed states

Schewe state reduction on random DPAs with three colors and  $|\Sigma|=8$ . 1.5 2.0 2.5 4.0 5.0 1.0 3.0 3.5 4.5

Number of SCCs in the original automaton

0.5

0.4

0.3

0.2

0.1

0.0

Relative number of removed states

Schewe state reduction on random DPAs with three colors and  $|\Sigma|=8$ . 1.5 2.5 2.0 3.0 4.0 1.0 3.5

Number of priorities in the original automaton

0.5

0.4

0.3

0.2

0.1

0.0

Relative number of removed states

