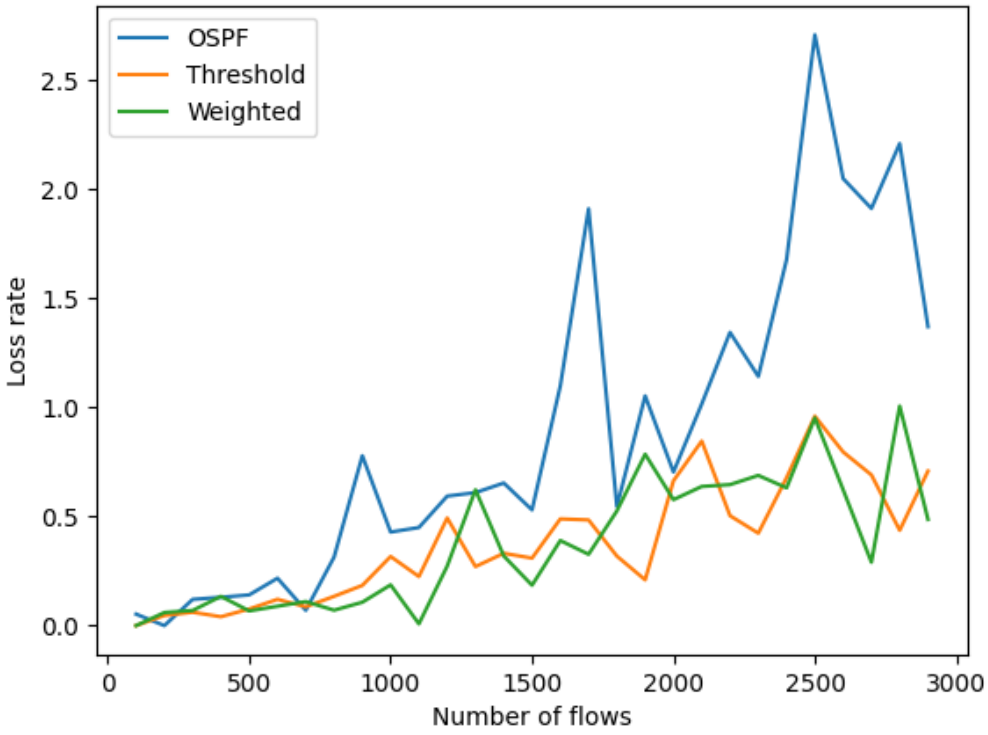
Description of Experiments

1 Experiment 1 - Random

Setup

[ ]:
```
n_nodes = 100
n_tries = 5

# Topology parameters
topology = 'random'
domain_name = 'A'
pce_node = 2
max_int = 8
max_links_out = 6

# Algorithm parameters
algs = ['OSPF', 'Weighted', 'Threshold']
threshold_params={
    threshold: [0,0.3,0.5,0.8,1],
    mult_fact: [1,5,10,100,1000]
}

# Flow generation parameters
src_domain = 'A'
dst_domain = 'A'
mode="rate_set_prob"
rate_set=[6.4, 5, 50]
rate_prob_dstr=[0.4, 0.3, 0.3]
seed=time.time

# Link capacity parameters
link_cap_mode="prob_cap_set"
cap_set=[40, 150, 1000, 10000]
prob_cap_set=[0.2, 0.3, 0.2, 0.3]
```

Plot This graphic shows the absolute loss rate and the number of flows increasing from 100 to 3000.



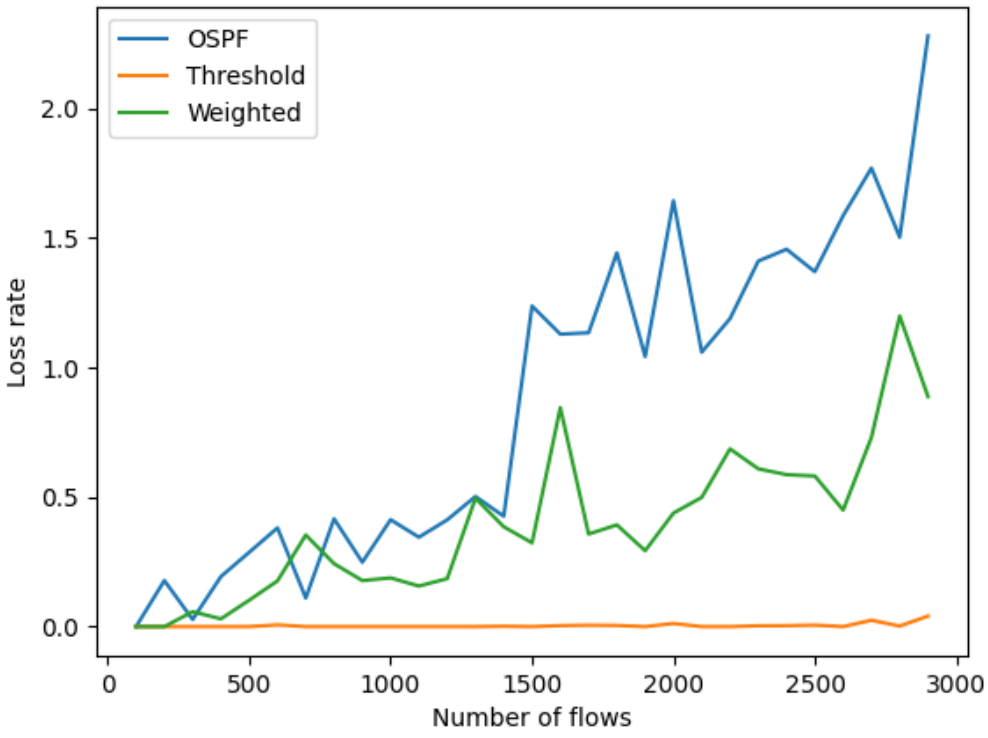
2 Experiment 2 - Small World

Setup

[ ]:
```
n_nodes = 100
n_tries = 5

# Topology parameters
topology = 'Small_World'
domain_name = 'A'
pce_node = 2
k = 4
beta = 0.1
seed = 0

# Algorithm parameters
algs = ['OSPF', 'Weighted', 'Threshold']
threshold_params={
    threshold: [0,0.3,0.5,0.8,1],
    mult_fact: [1,5,10,100,1000]
}

# Flow generation parameters
```

```
src_domain = 'A'
dst_domain = 'A'
mode="rate_set_prob"
rate_set=[6.4, 5, 50]
rate_prob_dstr=[0.4, 0.3, 0.3]
seed=time.time

# Link capacity parameters
link_cap_mode="prob_cap_set"
cap_set=[40, 150, 1000, 10000]
prob_cap_set=[0.2, 0.3, 0.2, 0.3]
```

Plot This graphic shows the absolute loss rate and the number of flows increasing from 100 to 3000.

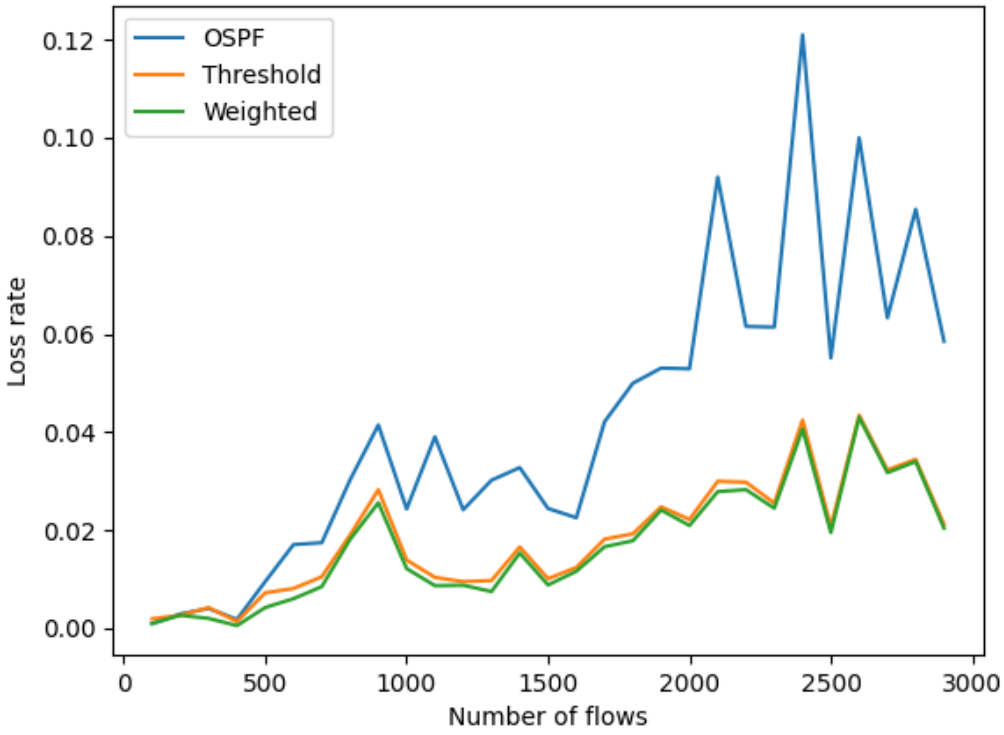


3 Experiment 3 - Random

Setup

[ ]:
```
n_nodes = 100
n_tries = 5

# Topology parameters
topology = 'random'
domain_name = 'A'
pce_node = 2
max_int = 8
max_links_out = 6

# Algorithm parameters
algs = ['OSPF', 'Weighted', 'Threshold']
threshold_params={
    threshold: [0,0.3,0.5,0.8,1],
    mult_fact: [1,5,10,100,1000]
}

# Flow generation parameters
src_domain = 'A'
dst_domain = 'A'
mode="rate_set_prob"
rate_set=[6.4, 5, 50]
rate_prob_dstr=[0.4, 0.3, 0.3]
seed=666666

# Link capacity parameters
link_cap_mode="prob_cap_set"
cap_set=[40, 150, 1000, 10000]
prob_cap_set=[0.2, 0.3, 0.2, 0.3]
```

Plot This graphic shows the flow loss rate (flow loss divided by total flows) and the number of flows increasing from 100 to 3000.



4 Experiment 4 - Random OSPF - 10 nodes, 30 tries

Setup

[ ]:
```
n_nodes = 10
n_tries = 30

# Topology parameters
topology = 'random'
domain_name = 'A'
pce_node = 2
max_int = 8
max_links_out = 6

# Algorithm parameters
algs = ['OSPF']

# Flow generation parameters
src_domain = 'A'
dst_domain = 'A'
mode="rate_set_prob"
rate_set=[6.4, 5, 50]
rate_prob_dstr=[0.4, 0.3, 0.3]
```

```
seed=666666

# Link capacity parameters
link_cap_mode="prob_cap_set"
cap_set=[40, 150, 1000, 10000]
prob_cap_set=[0.2, 0.3, 0.2, 0.3]
```

Plot This graphic shows the flow loss rate (loss divided by total flows) and the number of flows increasing from 10 to 300.