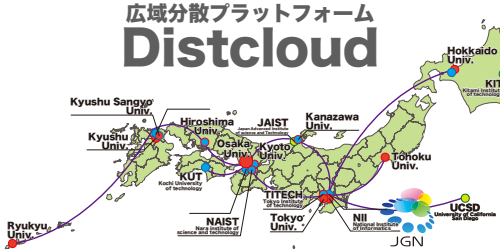
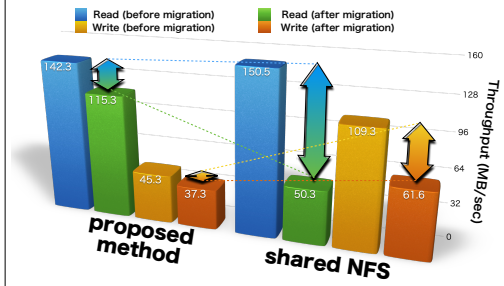
JGNを利用したトラヒックエンジニアリングとその応用に関する研究開発

Research and development on traffic engineering and its application using JGN

Hiroki Kashiwazaki (NII), 16th October, 2021.

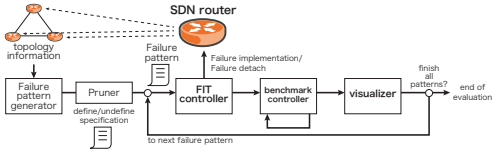
広域分散プラットフォーム Distcloud

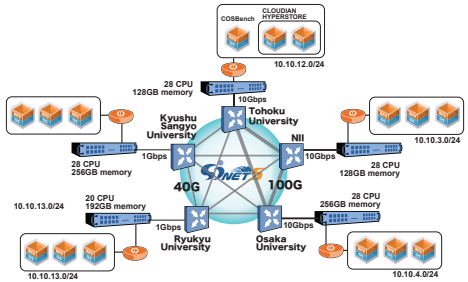


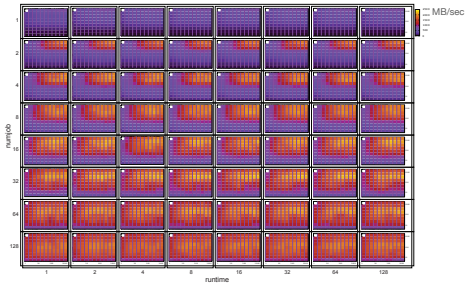


SDN-FIT

Software Defined Network Failure Injection Testing

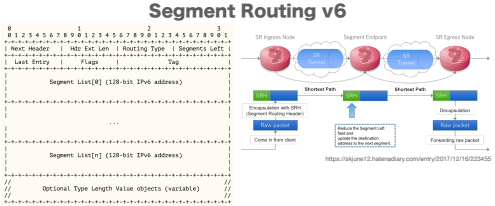






SRv6

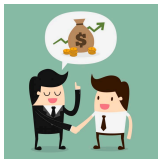
Segment Routing v6

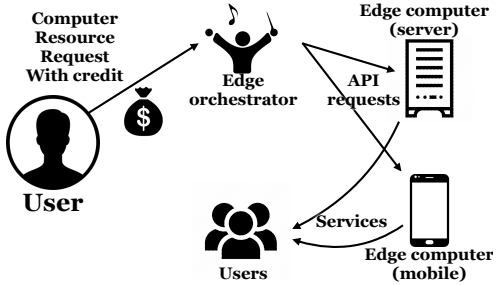


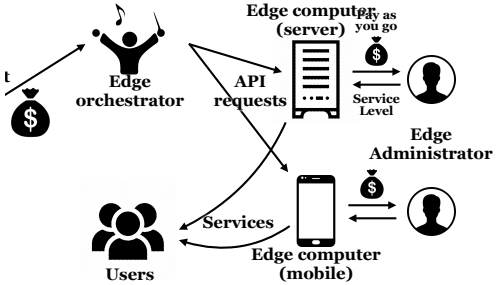
FRTE-B50

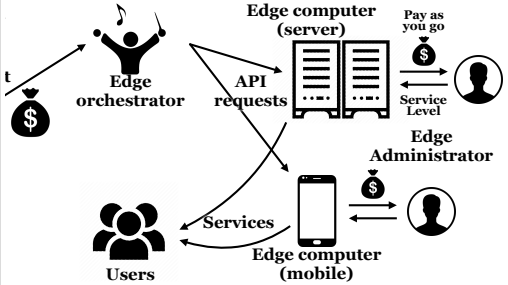
IIE

Incentive for Investment on Edge network



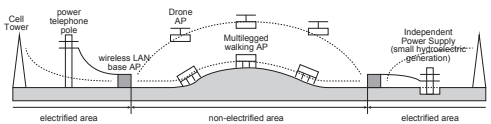


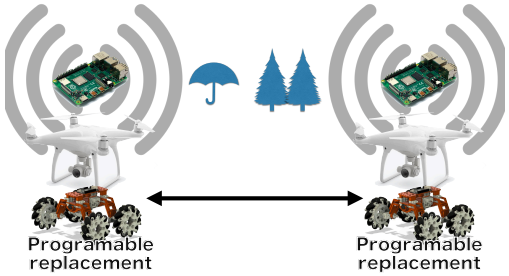




WMN4SR

Wireless Mesh Network for Smart Rural

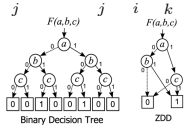




Re: SRE

Resilience evaluation for SRE

$$Q = \sum_{j}^{\sigma_j} S^j = \sum_{j}^{m} \sum_{i}^{\sigma_j} \prod_{k}^{j} f(S_i^j[k])$$



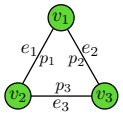
若手カンストしたので基盤がんばるぞい

Reaching the limit to apply for Early-Career Scientists, so I will challenge the Scientific Research.

Hiroki Kashiwazaki (NII) 27th Aug. 2021

レジリエンスの定義

$G(V, E)$



m：辺の総数

j：同時障害発生数

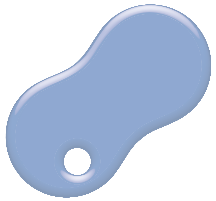
あるアプリケーションの要求仕様を満たさない同時次障害の組み合わせを要素として含む部分集合S^j

$$S^j = \{S_1^j, ..., S_{\sigma_j}^j\} (S_j \subseteq F_j)$$

は、F 同様に同時発生確率を導くことができる。

$$Q = \sum_{j}^{\sigma_j} S^j = \sum_{j}^{m} \sum_{i}^{\sigma_j} \prod_{k}^{j} f(S_i^j[k])$$

ここで、レジリエンスを以下のように定義する。

$$R = -\log \frac{Q}{P}$$

あ、うそ、logはいらないな…。
ううーん、しかし…。
お気持ちは伝わると思います…。