Real time structural response prediction based on earthquake early warning system:



Courtesy: http://myshake.berkeley.edu/faq/index.html

Peak floor acceleration (PFA) at different height





Cellphone-based EEWS system



Blind zone: 10km or less



Information-theoretic structural health monitoring



Information flow in an information theoretical context is the transfer of information from location x to location y in a given process.







Multi-scale Cross-sample Entropy (MSCE)

Vertical Damage *Location*



0.25

0.2

0.15

0.1

0.05

0

-0.05 10

log2(scale)

4 5

Increment





4

3

Left Bay

Center Bay

Right Bay

7

6





Thanks for your attention!

