PEER 2023 Annual Meeting

Panel Discussion

Friday August 25, 2023   3:30 – 5:00 PM

Use of AI in Earthquake Engineering

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what are possible AI applications in earthquake engineering → Default (GPT-3.5)

what are possible *flaws* of AI applications in earthquake engineering → Default (GPT-3.5)

Using AI, how can the synergy between PEER experimental facilities & instrumentation be enhanced? & what related potential testbeds to be considered for future grand challenges.

Other questions I posed to ChatGPT 3.5:

All responses were generalities
- May be appropriate, given lack of specifics
- Avoided liability
- Occasionally used the personal pronoun (*me*)

which is the safer two story building in a US earthquake - a wood frame house or an unreinforced masonry building?

how many pipes will break in the Richmond district of San Francisco in a ... San Andreas fault?

1.Data Ir
2.Real-ti
3.Predict
4.Sensor
5.Autom
6.Data-D
7.Simulat
a. Resilie
b. Urban
c. Subsur
d. Tsunar
e. Seismi
f. Post-Ea

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PLENARY 8: Panel Discussion on Use of AI in Earthquake Engineering and Open Mic
Moderator - Charles Scawthorn, Visiting Scholar, PEER

- **Opening Remarks**

- **Deep-learning-based Seismic Risk Assessment and Retrofitting of Road Networks,**
  Jack Baker, Stanford

- **Assessing Building Damage in Turkey and Syria using AI and Satellite Imagery,**
  Ritwik Gupta, UCB

- **Bridge Rapid Assessment Center for Extreme Events, BRACE2,**
  Khalid Mosalam & Claudio Perez, UCB

- **Open Mic Discussion**

- **Closing Remarks,**
  Tarek Zohdi, Associate Dean, COE, UCB

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