



SolMover: Smart Contract Code Translation Based on Concepts

Rabimba Karanjai*, Lei Xu†, Weidong Shi*

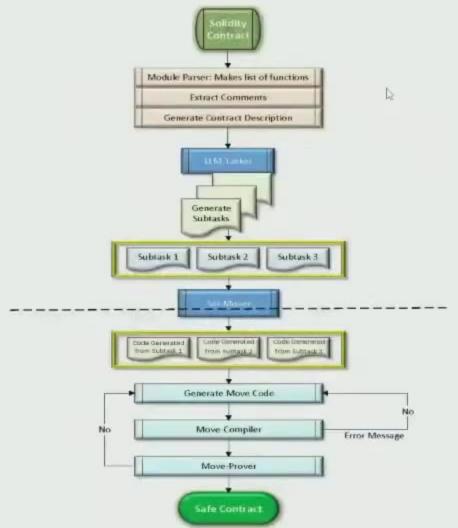








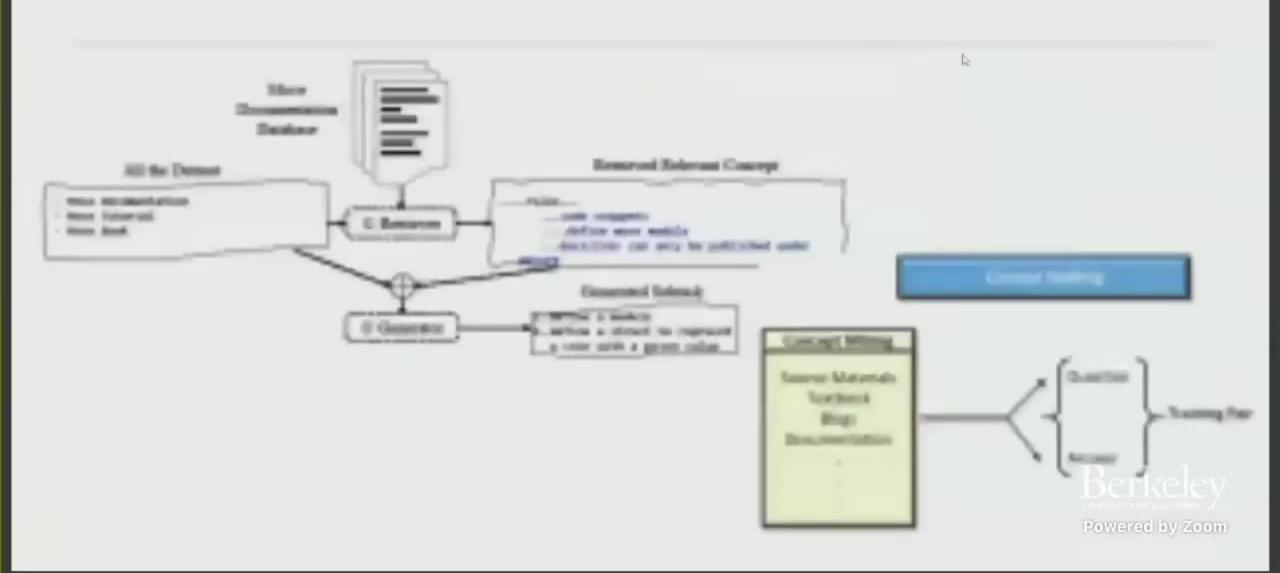
SolMover: Overview





Concept Mining

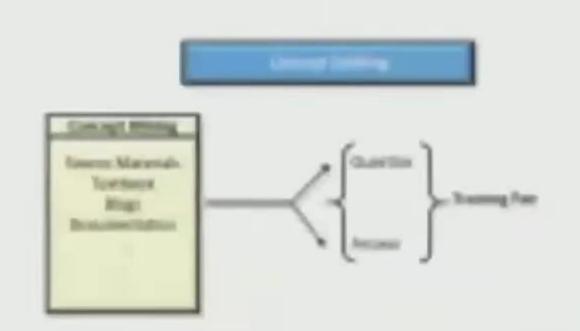




Concept Mining



- Query keywords as a set X = {x1, x2, ..., xk}
- Agenerative model, G takes the retrieved fragment cx and the query context (X) as input
- G predicts the subsequent token(s), denoted as Y = {xk+1, ..., xk+n}
- P(Y)=∏_{1,2}* P(X_{k+1}|C_kX_{1,-|k+1-1})

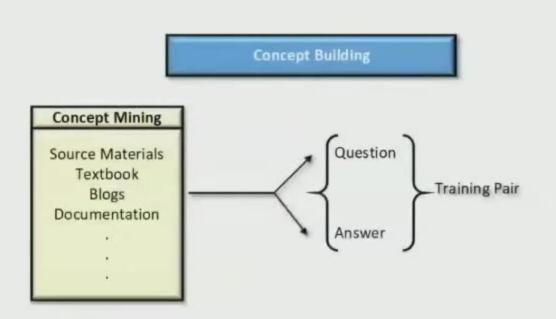




Concept Mining



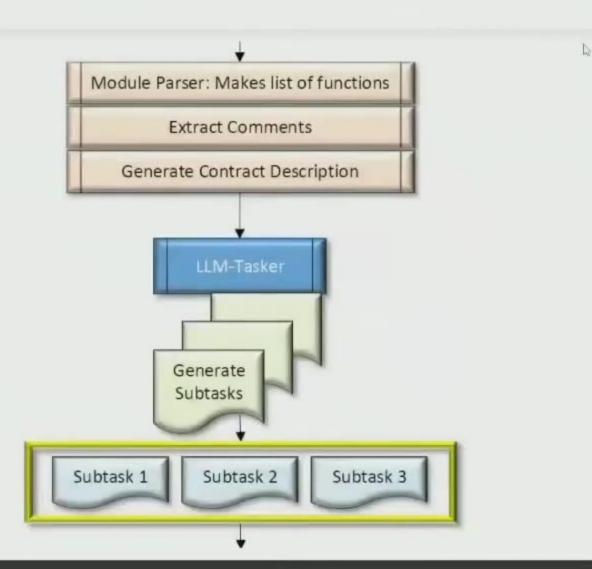
- Query keywords as a set X = {x1, x2, ..., xk}
- A retrieval function, denoted as R: (X, C)
 → C operates on the query (X) and the retrieval database (C)
- A generative model, G takes the retrieved fragment cs and the query context (X) as input
- G predicts the subsequent token(s), denoted as Y = {xk+1, ..., xk+n}
- $P(Y) = \prod_{i=1}^{n} P(x_{k+i} | c_s, x_1_{k+i-1})$



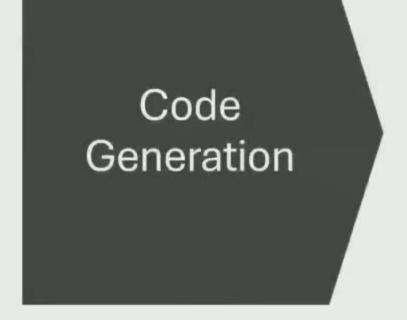


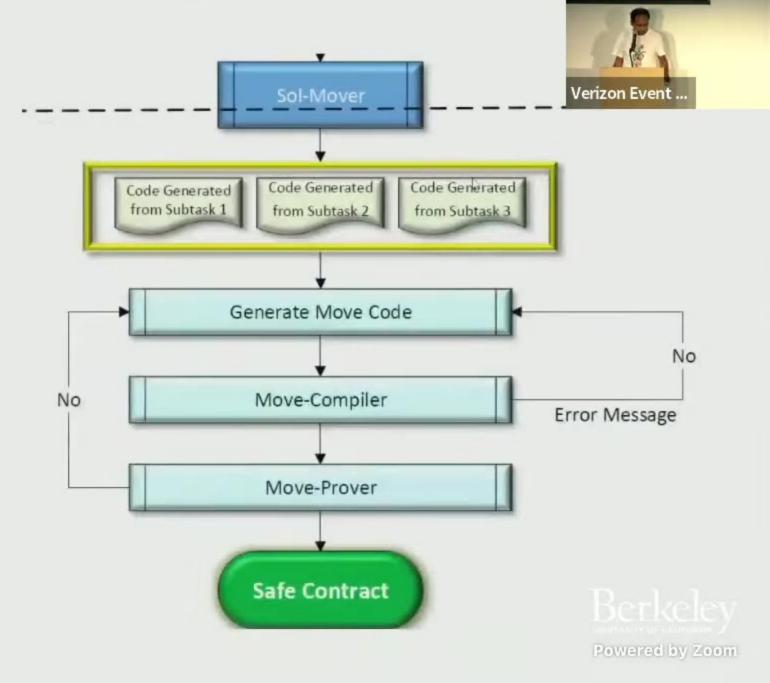
Sub Task Generation





Berkeley
Powered by Zoom

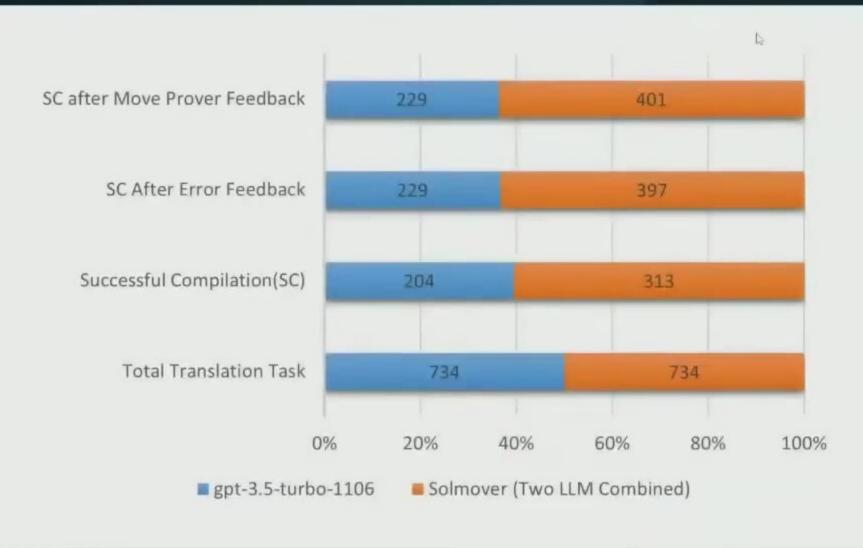




Evaluation

Successful Tr







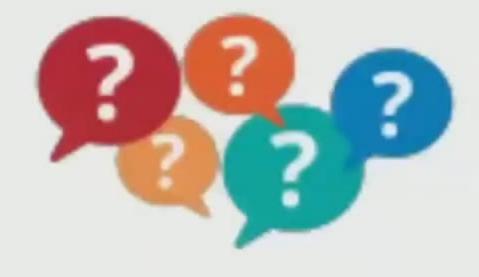
Questions



10

Statement Security and again













SulPlane Paper Link



Questions



Rabimba Karanjai rabimba@cs.uh.edu













SolMover Paper Link



Questions



Berkeley

Rabimba Karanjai

Summit on Responsible Decentralized Intelligence

Future of Decentralization and Intelligence



August 6, 2024 Verizon Center, NYC



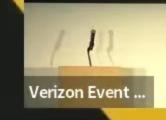






SolMover Paper Link





Berkeley

Summit on Responsible Decentralized Intelligence — Future of Decentralization and Al

August 6, 2024 Verizon Center, NYC







Berkeley Center for Responsible, Decentralized Intelligence

Summit on Responsible Decentralized Intelligence — Future of Decentralization and Al

August 6, 2024 Verizon Center, NYC



