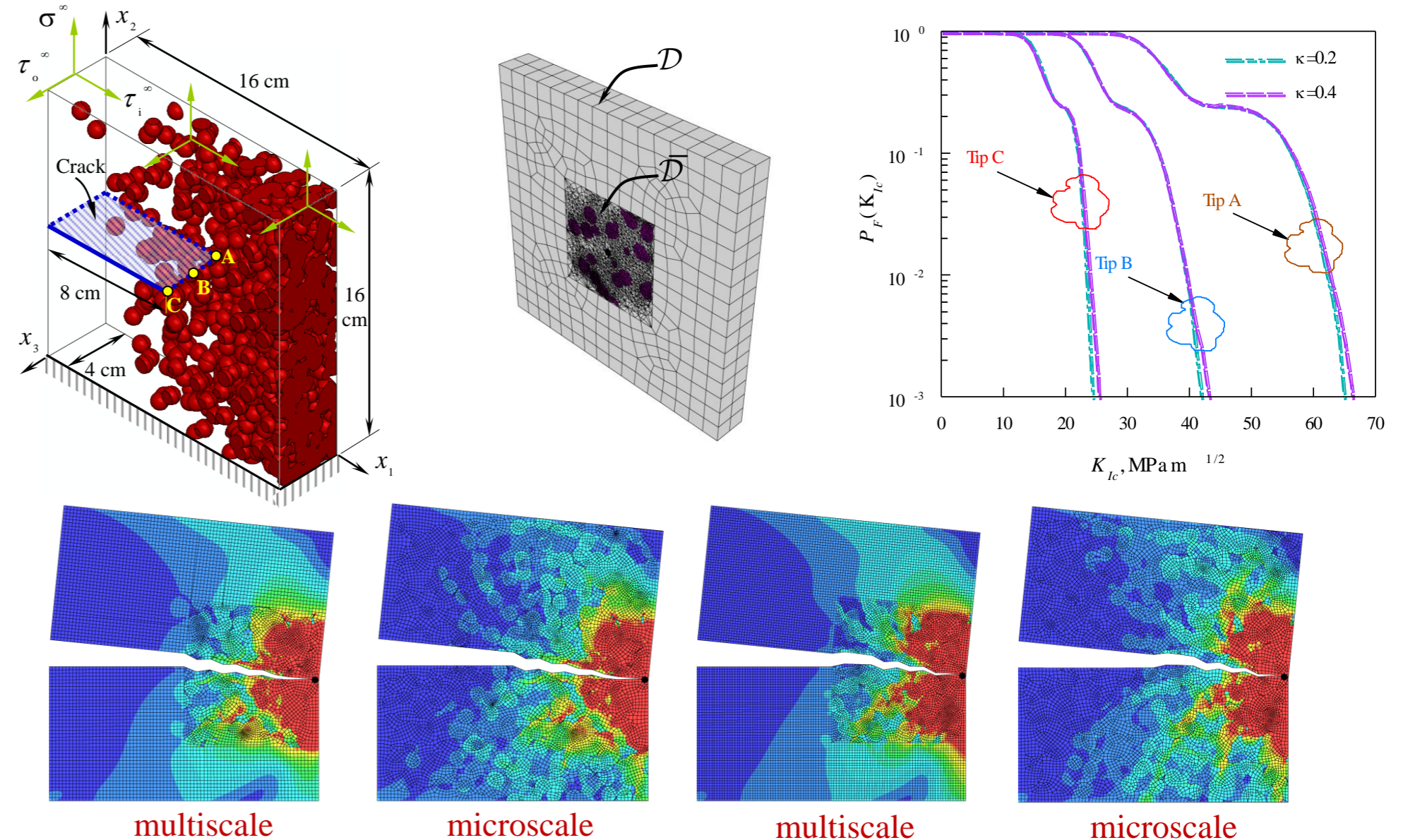


Computational Solid Mechanics

Prof. Sharif Rahman

- Random field models for synthetic microstructures of heterogeneous media
- Multiscale fracture behavior of cracks in FGMs
- Numerical methods for calculating crack-driving forces
- Computational mechanics of materials



A concurrent multiscale model developed predicts accurately & efficiently the probability of fracture initiation, including samples of crack-propagation paths