

## SINA ABRARI VAJARI

Ph.D. Student in Civil and Environmental Engineering, admitted Autumn 2020

### Publications

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#### PUBLICATIONS

- **A B-spline based gradient-enhanced micropolar implicit material point method for large localized inelastic deformations** *COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING*  
Neuner, M., Dummer, A., Vajari, S., Gammitzer, P., Gimperlein, H., Linder, C., Hofstetter, G.  
2024; 431
- **A multiscale anisotropic polymer network model coupled with phase field fracture** *INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING*  
Arunachala, P., Vajari, S., Neuner, M., Sim, J., Zhao, R., Linder, C.  
2024
- **Investigation of driving forces in a phase field approach to mixed mode fracture of concrete** *COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING*  
Vajari, S., Neuner, M., Arunachala, P., Linder, C.  
2023; 417
- **A multiscale phase field fracture approach based on the non-affine microsphere model for rubber-like materials** *COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING*  
Arunachala, P., Vajari, S., Neuner, M., Linder, C.  
2023; 410
- **A thermodynamically consistent finite strain phase field approach to ductile fracture considering multi-axial stress states** *COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING*  
Vajari, S., Neuner, M., Arunachala, P., Ziccarelli, A., Deierlein, G., Linder, C.  
2022; 400