

ANURA3D MPM RESEARCH COMMUNITY

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ABSTRACT

The Anura3D MPM Research Community [1] consists of European and American universities and one independent institute that are jointly researching the application of the Material Point Method (MPM) in geotechnics. A special focus is on the development of common open-source software. The community has been working for years on the simulation of numerous geotechnical problems, particularly involving large deformations, saturated or partially saturated soil, and soil-water-structure interaction. The collaborative work also includes the organization of joint international conferences, workshops, training courses, and publications [2].

Within the Invited Session, the latest developments from the community regarding the MPM will be presented by the respective members of the community. Furthermore, the joint open-source development, its applications, and organization will be presented.

REFERENCES

- [1] WWW.ANURA3D.COM/
- [2] FERN, ELLIOT & ROHE, ALEXANDER & SOGA, KENICHI & ALONSO, EDUARDO, *THE MATERIAL POINT METHOD FOR GEOTECHNICAL ENGINEERING: A PRACTICAL GUIDE*. 10.1201/9780429028090, 2019