Arizona Random Forest Flood Mapping

Travis Zalesky

2025-03-31

Abstract

Federal Emergency Management Administration 100-year flood risk maps are expanded across the state of Arizona using a random forest, machine learning classification utilizing eight topographic explanatory variables.

## 1 Introduction

Tehrany et al. (2019)

## 2 Data & Methods

## 3 Conclusion

## References

Tehrany, M. S., Jones, S., & Shabani, F. (2019). Identifying the essential flood conditioning factors for flood prone area mapping using machine learning techniques. *CATENA*, *175*, 174–192. <https://doi.org/10.1016/j.catena.2018.12.011>