

Harnessing Explainable AI to Accelerate Operational Mesogrids:

Language Models (LMs) + Advanced Math = Sanity

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Intro

Today, users of microgrids are denied many of their benefits because analytics are lacking. Users with a compelling need for bigger, operational microgrids (**mesogrids**) require the power of **explainable AI**.

Target customers

- Colocated data centers and solar/wind farms
- Military bases
- Remote microgrids

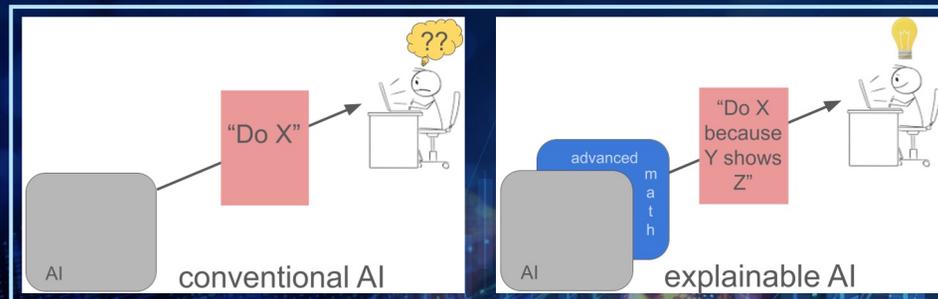
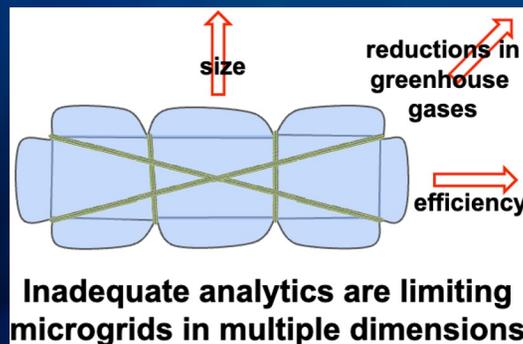
Benefits

- Grid operators get better, trustworthy guidance
- Mesogrids scale as needed
- Path to automation

Methods

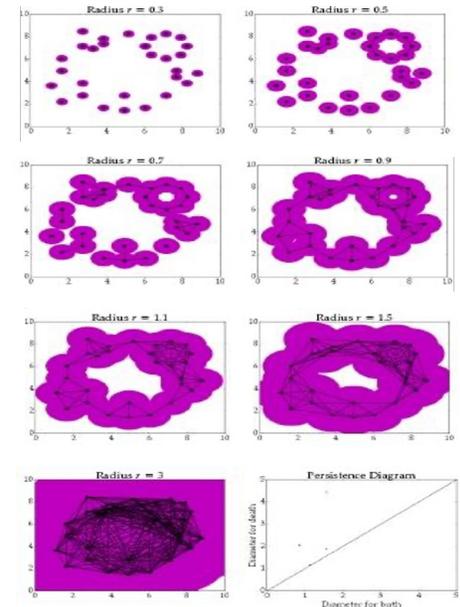
- Combine advanced math and logic with LMs
- Use LMs to interact with simulators and microgrid-management software

Explainable AI Enables Faster Adoption of Operational Mesogrids



Topological Data Analysis

Attributes of data that persist through scaling/deformation



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References

- Munch, E. (2017). A user's guide to topological data analysis. Journal of Learning Analytics, 4(2), 47-61.



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