

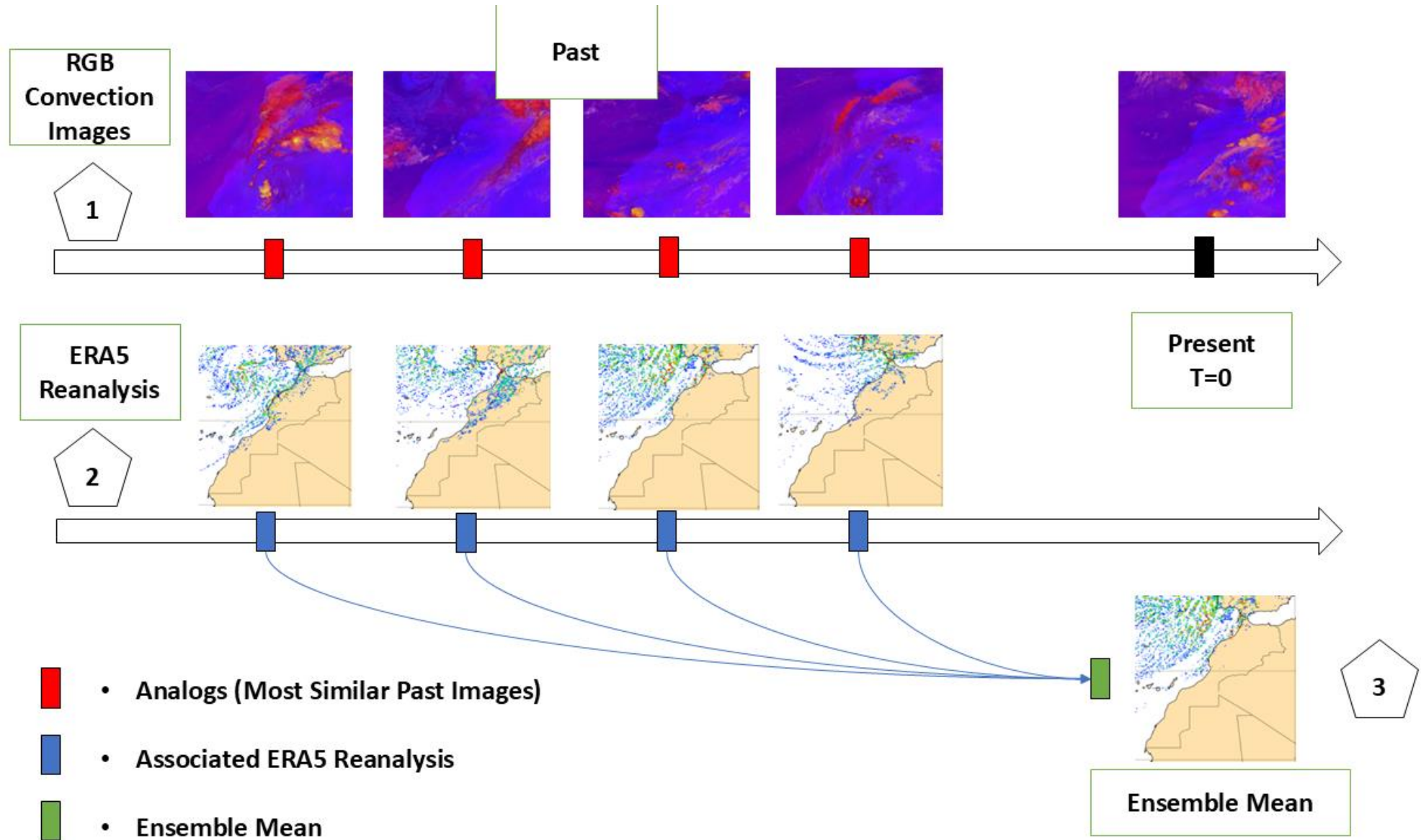
Leveraging Pretrained Deep Learning Models to Extract Similarities for the Analog Ensemble Method Applied to Convection Satellite Imagery

Alaoui Badreddine¹, Chakib Bounoune² and Bari Driss¹

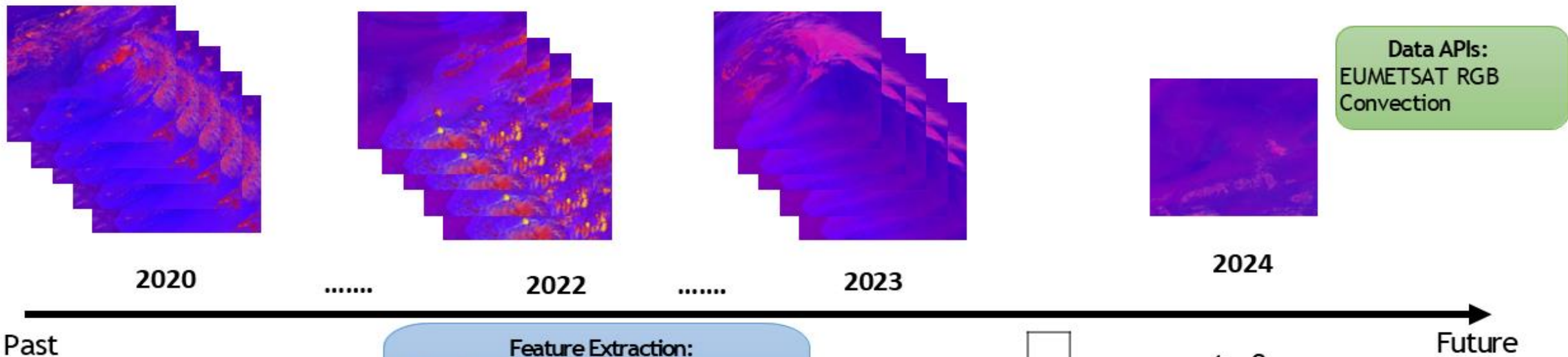
¹Center of Meteorological Research, General Directorate of Meteorology, Morocco (alaoui.badreddine.abe@gmail.com)

²School of Information Sciences, Morocco

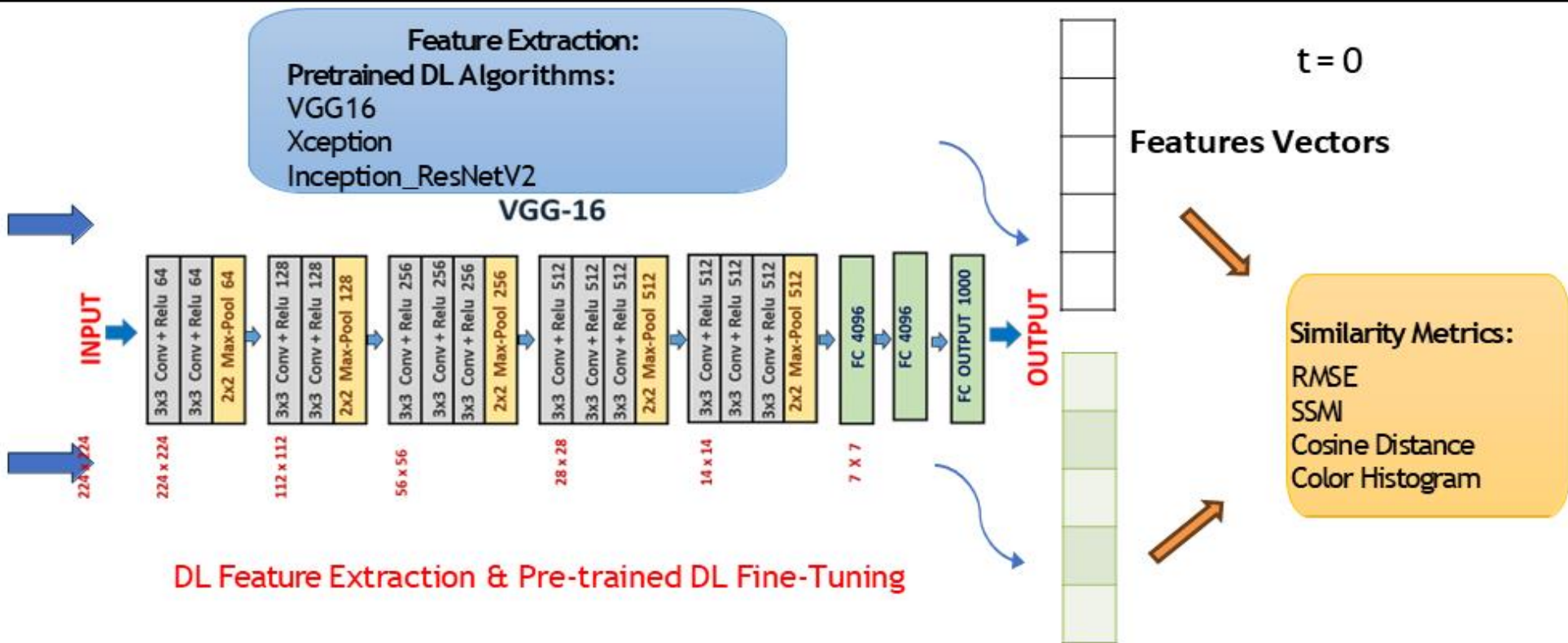
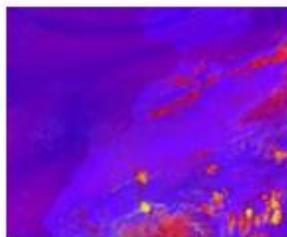
Analog Ensemble Method Adapted to Satellite Imagery



Evaluating RGB Convection Images Similarity with Pretrained DL



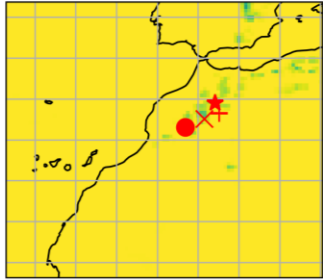
Past Future



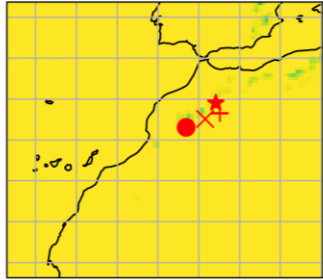
DL Feature Extraction & Pre-trained DL Fine-Tuning

Use Case 25-08-2024

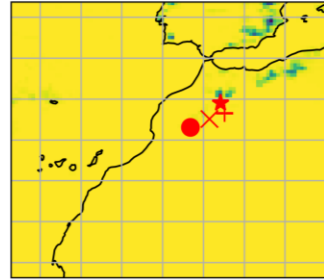
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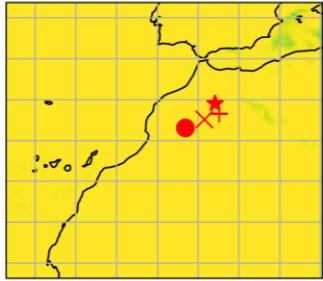
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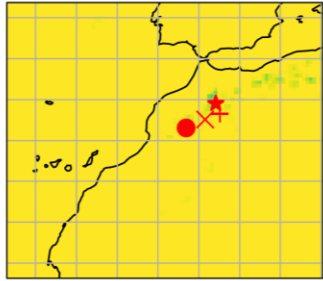
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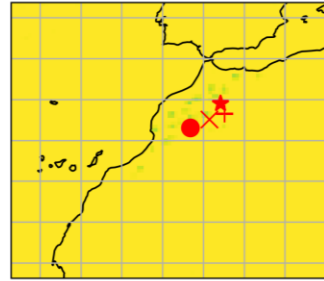
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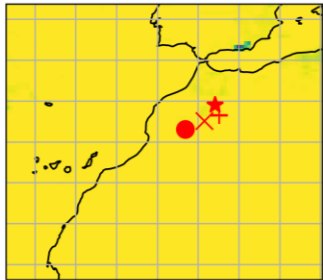
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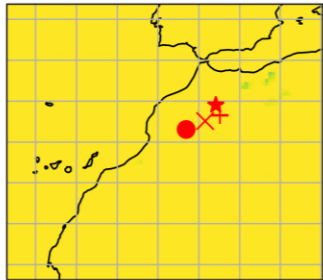
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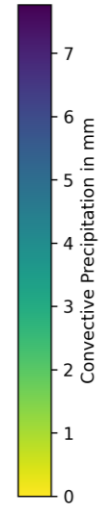
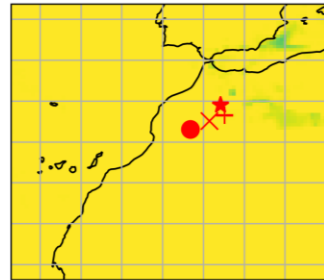
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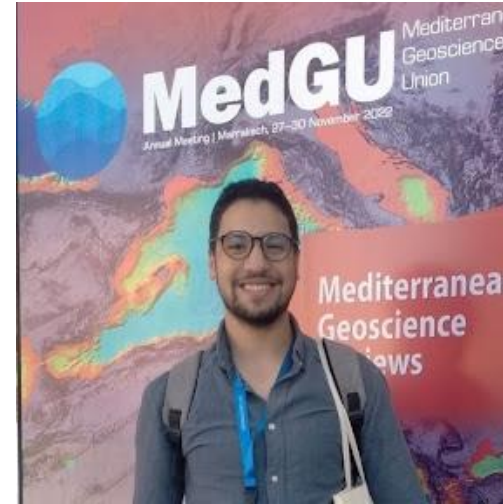


Thank you!

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Related Papers:

- Alaoui, B., Bari, D. & Ghabbar, Y. Surface Weather Parameters Forecasting Using Analog Ensemble Method over the Main Airports of Morocco. *J Meteorol Res* 36, 866–881 (2022). DOI: 10.1007/s13351-022-2019-0
- Alaoui, B.; Bari, D.; Bergot, T.; Ghabbar, Y. Analog Ensemble Forecasting System for Low-Visibility Conditions over the Main Airports of Morocco. *Atmosphere* 2022, 13, 1704. DOI: 10.3390/atmos13101704
- Alaoui, B., Bari, D. & Ghabbar, Y. Space Analog's Searching to Improve Deterministic Forecasting Using Analog Ensemble Method Over Morocco, Recent Advancements from Aquifers to Skies in Hydrogeology, Geoecology, and Atmospheric Sciences. DOI : 10.1007/978-3- 031-47079-0