

<https://www.rainsmoreird.com>

The banner features a background image of a coastal area with a large pier extending into the water under a cloudy sky. In the top left, there is a logo for RAINSMORE with a cloud and rain. In the top right, there is a logo for SWOT with a satellite dish and the text 'NE - 2022'. The central text reads 'AI FOR WATER' in blue. Below that, the main title 'RAINSMORE/SWOT WORKSHOP ON ARTIFICIAL INTELLIGENCE' is written in large white letters with a black outline. At the bottom, the dates 'OCTOBER 24th-28th 2022', the format 'Online and Presential Conference', and the location 'FORTALEZA, BRAZIL' are displayed in pink text on blue rectangular backgrounds.

AI FOR WATER

**RAINSMORE/SWOT WORKSHOP ON
ARTIFICIAL INTELLIGENCE**

OCTOBER 24th-28th 2022
Online and Presential Conference
FORTALEZA, BRAZIL

- LABOMAR Auditorium, Fortaleza
- <https://www.youtube.com/c/LabomarUFCE>
- <https://us02web.zoom.us/j/85911974011?pwd=Y29hOG0rZWRpcVpjMTNychBmNE0rUT09>



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Objectives :

- This is thought as the first workshop of a series
- The objective is to gather
 - AI specialists – with expertise in numerical methods
 - HydroMeteorologists – with data and questions to be addressed-> to develop better analysis / estimation / prediction tools and products.



AI FOR WATER



Next steps

- Continue animation (whatsapp/mail group – regular meetings)
- Put together a scientific project ?
- **Start going further – resolve some scientific questions – student projects - publish**
- Some concrete examples we can start working on :
 - Monitoring the water extent and volumes of small reservoirs
 - Combining multi satellite approach
 - Improve rainfall estimation and nowcasting
 - Satellite and radar
 - Analysis of the propagation of rain signal over a **heterogenous** microwave link network with complex signal fluctuations and non linear relation between attenuation/rain