

“Finding the nexus between climate change, conflict and forced displacement”

University of Essex, UNOSAT and UNHCR Innovation

Data Science, Artificial Intelligence and Remote Sensing Research

Day 1 - 28/02/2019

Time	What/Topic	Who?
8:30 - 9:00	Intro/Coffee/Set-up presentations	University of Essex/UNHCR Innovation
9:00 - 9:45 + 15 min Q&A	Intro to their research work: <i>Human Rights, A.I./ML imagery and text classification.</i>	University of Essex
10:00 - 10:45 + 15 min Q&A	Intro to their research work: remote sensing, earth observation, GIS	UNOSAT
11:00 - 11:45 + 15 min Q&A	Intro to their research work: Project Jetson	UNHCR Innovation
LUNCH		
13:00 - 15:00	How satellite imagery analysis is carried out? from vegetation classification + challenges around satellite imagery analysis	UNOSAT
15:00 - 15:30	Coffee break	All
15:30 - 17:30	Brainstorming: discussion on <ul style="list-style-type: none">• Research question(s)• Research specific objectives• Main research assumptions	All
17:30 - 18:00	Wrap-up and plan for Day 2	

Day 2 - 01/03/2019

Time	What/Topic	Who?
9:00 - 9:30	Recap from Day 1 and Miscellaneous	University of Essex/UNHCR Innovation
9:30 - 11:30	Brainstorming: discussion on <ul style="list-style-type: none">• Research methods and	All

	methodology <ul style="list-style-type: none"> ○ A.I. ○ Data Science ○ GIS/Remote Sensing ● Available inputs for research (e.g. data, time) 	
11:30 - 12:00	Brainstorming: discussion on <ul style="list-style-type: none"> ● Research constraints 	All
LUNCH		
13:00 - 14:30	Brainstorming: discussion on <ul style="list-style-type: none"> ● Drafting a research plan ● Timeline (e.g. Gantt) ● Milestones 	All
14:30 - 16:00	Brainstorming: discussion on <ul style="list-style-type: none"> ● Next Steps and the way forward 	All

Other research sources on the topic:

<https://medium.com/analytics-vidhya/satellite-imagery-analysis-with-python-3f8ccf8a7c32>

<https://qz.com/762502/satellite-images-predict-poverty-machine-learning-artificial-intelligence/>

<https://res.mdpi.com/remotesensing/...08-00399/.../remotesensing-08-00399.pdf?..>