

Machine Learning for Global Land Cover Classification

A Radiant.Earth Expert Workshop to Further Global Development

14-15 June 2018

Cabinet Room, Omni Shoreham Hotel, Washington, DC

Agenda

DAY 1:	THURSDAY	. 14 JUNE	2018
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8:00 Meet and greet, coffee, light breakfast

9:00 Welcome

Dan Lopez, CTO, Radiant.Earth

9:15 Workshop Overview and Expected Outcomes

Hamed Alemohammad, Lead Geospatial Data Scientist, Radiant.Earth

9:30 Plenary: Perspectives on Advancing LC Classifications for Machine Learning

Moderator: Anne Hale Miglarese, CEO, Radiant.Earth Speakers (15 min each):

Tasso Azevedo, Lead, MapBiomass

Budhendra Bhaduri, Corporate Research Fellow and Group Leader, Oak Ridge National Laboratory

Mark Friedl, Professor, Boston University; and Co-Founder, Tellus Labs

Matthew C. Hansen, Professor, University of Maryland

Chris Holmes, Product Manager, Planet; and Technical Fellow, Radiant.Earth

10:45 Break and Group Photo

11:00 Lightning Talks

Speakers (5 min + 2 min Q&A each):

Lyndon Estes, Assistant Professor, Clark University

Christopher Lynnes, EOSDIS System Architect, NASA

Murali Krishna Gumma, Remote Sensing and GIS Scientist, CGIAR

Ryan Engstorm, Professor, The George Washington University

Aislinn Pearson, Head of Product Development, Innovative Solutions for Decision Agriculture



Drew Bollinger, Developer, Development Seed
James Gill, Data Scientist, Facebook
Markus Walsh, Senior Research Scientist, Selian Agricultural Research Institute
Rob Emanuele, VP of Research, Azavea
David Grason, Senior Manager, Platform Analytics, DigitalGlobe
David Lindenbaum, Principal Engineer, CosmiQ Works

12:20 Lunch

13:45 Breakout Session 1

Three working groups will convene to discuss and develop related documents, standards, or other recommendations:

Working Group 1: Land Cover Taxonomy

Discussion Facilitator: Markus Walsh, Senior Research Scientist, Selian

Agricultural Research Institute

Rapporteur: Yonah Bromberg Gaber, Platform Developer Community

Associate, Radiant.Earth

Working Group 2: Machine Learning Algorithms

Discussion Facilitator: Lyndon Estes, Assistant Professor, Clark University

Rapporteur: Yoni Nachmany, Machine Learning Intern, Radiant.Earth

Working Group 3: Training Data Specifications

Discussion Facilitator: Chris Holmes, Product Manager, Planet; and Technical

Fellow, Radiant.Earth

Rapporteur: Hamed Alemohammad, Lead Geospatial Data Scientist,

Radiant.Earth

Groups will take break and engage with other working groups as needed.

Coffee and refreshments will be served at 3:00 pm

16:30 Group Discussion: Report Out

The results of each working group will be presented and discussed, capturing key recommendations, challenges, outstanding issues, etc.

17:30 Adjourn

18 - 21 Reception

Forum Room, Omni Shoreham Hotel, Washington, DC



DAY 2: FRIDAY, 15 JUNE 2018

8:00 Meet and greet, coffee, light breakfast

9:00 Opening and Review of the Previous Day's Results and Day 2 Expected Outcomes

Hamed Alemohammad, Lead Geospatial Data Scientist, Radiant. Earth

9:15 Breakout Session 2

Participants will gather in their respective working groups to continue the conversation based on the review of the previous day's discussion and recommendations from the whole team.

Groups will take break and engage with other working groups as needed.

Coffee and refreshments will be available at 10:30 pm

12:00 Lunch

13:00 Breakout Session 2 (continued)

15:00 Break

15:15 Report Out and Final Discussion

Each group will present (20 min) the final outcome of their discussions and development of the documentation related to their topic. Remaining issues will be highlighted.

Recommendations for next steps to resolve the remaining issues and further development of the documentations will be aggregated in the GitHub repositories.

17:00 Adjourn