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(60) 2015 Annual Meeting, Chicago, Illinois

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Paper Session:

2468 Modeling human population - methods and applications of the WorldPop project

is scheduled on Wednesday, 4/22/2015, from 1:20 PM - 3:00 PM in Roosevelt, Hyatt, East Tower, Lakeshore Rooms

Sponsorship(s):
Human Dimensions of Global Change Specialty Group
Spatial Analysis and Modeling Specialty Group

Organizer(s):
Andrea Gaughan - University of Louisville
Forrest Stevens - University of Florida

Chair(s):
Andrea Gaughan - University of Louisville

Abstract(s):

1:20 PM   Author(s): *Forrest R. Stevens - University of Louisville
Andrew J. Tatem - University of Southampton
Catherine Linard - Université Libre de Bruxelles
Andrea E. Gaughan - University of Louisville
Alessandro Sorichetta - University of Southampton
Graeme M. Hornby - University of Southampton
Nirav N. Patel - George Mason University
Jeremiah N. Nieves - University of Louisville
Carla Pezzulo - University of Southampton

 Abstract Title: *The Challenges of Mapping the Denominator - the Past, Present and Future of the WorldPop Project*

1:40 PM   Author(s): *Alessandro Sorichetta, Dr - University of Southampton
Graeme M Hornby - University of Southampton
Forrest R Stevens, Dr - University of Louisville
Andrea E Gaughan, Dr - University of Louisville
Catherine Linard, Dr - Université Libre de Bruxelles
Andrew J Tatem, Dr - University of Southampton

 Abstract Title: *The Patterns and Drivers of Population Distributions in Latin America and the Caribbean*

2:00 PM   Author(s): *Andrea E Gaughan - University of Louisville
Forrest R Stevens - University of Louisville
Jeremiah Nieves - University of Louisville
Alessandro Sorichetta - University of Southampton
Catherine Linard - Université Libre de Bruxelles
Nirav N Patel - George Mason University
Graeme M Hornby - University of Southampton
Andrew J Tatem - University of Southampton

 Abstract Title: *Spatiotemporal patterns of China's population, 1990 to 2010*

2:20 PM   Author(s): *Graeme M Hornby - University of Southampton

Carla Pezzulo, Dr - University of Southampton
Alessandro Sorichetta, Dr - University of Southampton
Andrea E Gaughan, Dr - University of Louisville
Catherine Linard, Dr - Fonds National de la Recherche Scientifique; Université Libre de Bruxelles
Tomas J Bird, Dr - University of Southampton
Andrew J Tatem, Dr - University of Southampton; Fogarty International Center; Flowminder Foundation

Abstract Title: *Dependency ratios and economic output in Africa and Asia*

2:40 PM   Author(s): Jeremiah Nieves, BS - University of Louisville
Andrea Gaughan, PhD - University of Louisville
Catherine Linard, PhD - Université Libre de Bruxelle
*Nirav Nikunj Patel, MSc - George Mason University
Forrest R. Stevens, PhD - University of Louisville
Andrew J Tatem, PhD - University of Southampton

Abstract Title: *The value of urban extents in high resolution population mapping*

Session Description: By 2025, world population is estimated to be over 8 billion, and amidst this rapid growth, the demand for current and accurate population data sets is increasing dramatically. Effective planning, resource allocation, and intervention strategies should be built on a strong evidence base that accounts for population changes. The WorldPop project (www.worldpop.org.uk) was built by the applicants to meet this need, yielding the most detailed and contemporary open, spatial demographic database ever assembled and providing a suite of contemporary geospatial data sets for applications in developing countries around the world. The results are freely-available population distribution and demography datasets for Africa, Asia, and Latin America, for the years 2010, 2015, and 2020 at unprecedented levels of detail. They are now widely used by international agencies and governments world-wide. This session will present an overview of the current modeling approach and various applications for spatial and temporal analyses across a range of different WorldPop products. In addition, this session will highlight the integration of WorldPop with web-interfaced mapping technologies that will allow the existing WorldPop datasets, and the methods behind them, to be more accessible to end users.

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