

# International Symposium on Geospatial Approaches to Combating Covid-19

## Final Program

Florence, Italy or online, Dec 13 -14, 2021

### A Glance of Session Schedule

Date	Mon 13th December					Tue 14th December			
Session	Opening	1	2	3	4	5	6	7	Closing
Time (Florence)	8:40 - 9:00am	9:00-10:20am	10:40am-12:00pm	1:30 - 2:50pm	3:10 - 4:10pm	4:30 - 5:45pm	8:30 - 9:50am	1:30 - 2:50pm	2:50 - 3:00pm

**Day-1 : Dec. 13**

**Opening session : Welcome and Introduction (8:40 - 9:00 am)**

**Session 1 - Chair: Angela Yao; Co-chair: Jukka Krisp (9:00-10:20 am)**

<b>Authors</b>	<b>Title</b>	<b>Institution</b>	<b>Presenter (pt)</b>	<b>Florence time (pt's local time)</b>
Sean Ahearn, Shipeng Sun	An Embedded Recursive SIR model (ERSIR) for the simultaneous solution of two key epidemiological parameters for US county level analysis of Covid-19	Hunter College - CUNY	Sean C. Ahearn	9:00 - 9:15 am
Guenther Retscher, Pajtim Zariqi, Georg Gartner	Analyses of Bluetooth Distance Measurements for Digital Contact Tracing	Vienna University of Technology	Guenther Retscher	9:15 - 9:30 am
Hugh Sturrock, Sophie Ayling, George Joseph, Yi Rong Hoo, Sveta Milusheva	Estimating the impact of handwashing on risk of severe COVID-19 in Zimbabwe	Locational Spatial Intelligence, World Bank	Sophie Ayling	9:30 - 9:45 am
Chengzhuo Tong, Wenzhong Shi, Anshu Zhang, Zhicheng Shi	Predicting the risk of COVID-19 symptom onset to support healthy active mobility in the new normal of long-term coexistence with SARS-CoV-2	The Hong Kong Polytechnic Univ., Shenzhen Univ.	Chengzhuo Tong	9:45 - 10:00 am (4: 45 - 5:00 pm)
Pnina Plaut, Avital Angel Sagi Dalyot, Achituv Cohen	Impact of COVID-19 policies on pedestrian traffic and walking patterns	Technion -Israel Institute of Technology	Avital Angel	10:00 - 10:15 am

**Session 2 - Chair: Xintao Liu; Co-chair: Haosheng Huang (10:40 am-12:00 pm)**

Adam Mertel Justin Calabrese	Modeling the effect of the national borders in the spread of COVID-19: A case study of the Saxonian-Czechia border region	Center for Advanced Systems Understanding (CASUS)	Adam Mertel	10: 40-10:55 am
Jochen Albrecht, Laxmi Ramasubramanian Hilary Nixon	Repopulating Large Workplaces: from scientific workflows towards pragmatic policy and planning solutions	Hunter College CUNY, San Jose State University, Mineta Transportation	Laxmi Ramasubramanian	10: 55-11:10 am
Bisong Hu, Pan Ning, Jingyu Qiu, Vincent Tao, Adam Devlin, Haiying Chen, Jinfeng Wang, Hui Lin	Modeling the complete spatiotemporal spread of the COVID-19 epidemic in mainland China	Jiangxi Normal University, Wayz AI, Nanchang CDC, IGSNRR	Bisong Hu	11: 10-11:25 am (6:10 - 6:25 pm)
Sarina Dass, Alina Ristea Dan O'Brien	Strategies and Inequities in Balancing Recreation and COVID Exposure when Visiting Parks	Northeastern University, Univ. College of London	Alina Ristea	11: 25-11:40 am (10:25-10:40am)
Rosario Casanova, Eduardo Vásquez, Miguel Gavirondo	Opportunities and threats posed by the fight against COVID-19 for geomatics in Uruguay	University of the Republic	Rosario Casanova	11: 40-11:55 am (7:40 - 7:55 am)

**Session 3 - Chair: Jukka Krisp, Co-chair: Xintao Liu (1:30 - 2:50 pm)**

Camille Barchers, Wenwen Zhang, Janille Smith-Colin	Assessing the use of Twitter by transit agencies for communication with riders during the COVID-19 pandemic	University of Massachusetts, Rutgers University, Southern	Camille Barchers	1:30 - 1:45 pm
Rui Li, Youqin Huang	Spatial and temporal disparities of COVID-19 outcome in New York City	State University of New York	Rui Li	1:45 - 2:00 pm (7: 45 - 8:00 am)
Aaron Adams, Debs Ghosh, Adam Gallaher, Ashley B. Ou	Can power outages during extreme weather events be responsible for COVID-19 outbreaks?	University of Connecticut	Aaron Adams	2:00 - 2:15 pm (8:00 - 8:15 am)
Hao Yang, Angela Yao	Measuring and analyzing the spatio-temporally dynamic transmissibility of Covid-19	University of Georgia	Hao Yang	2:15 - 2:30 pm (8:15 - 8:30 am)
Amir Masoud Forati, Rina Ghose, Rachel Hansen	Analyzing Twitter Generated Covid-19 Misinformation and Impacts: A Mixed Method Approach	University of Wisconsin Milwaukee	Amir Masoud Forati	2:30 - 2:45 pm (7:30 - 7:45 am)

**Session 4 - Chair: Bin Jiang ; Co-chair: Angela Yao (3:10 - 4:10 pm)**

Yanchao Li, Ziyu Ran, Sarah Williams, Lily Tsai	Using CDR to evaluate COVID-19 policy compliance and its effects on different socio-demographic groups in Sierra Leone	Massachusetts Institute of Technology	Yanchao Li	3:10 - 3:25 pm (9: 10 - 9:25 am)
Kyunghee Rhyu, Michael Tiefelsdorf, Sushila Sapkota	Spatio-temporal Disparities in the Acceptance of COVID-19 Vaccinations among the Counties' Population of Texas	University of Texas at Dallas	Kyunghee Rhyu	3:25 - 3:40 pm (8:25 - 8:40 am)
Fernando Lima, Nathan Brown, José Duarte	Modeling the impact of walkability, population density, and population size on COVID-19 spread: a study of the early contagion in the United States	Pennsylvania State University	Fernando Lima	3:40 - 3:55 pm (9:40 - 9:55 am)
Yu Lan	A web-based geographic framework for detecting and visualizing space-time explicit clusters of infectious diseases	The Univ. of North Carolina at Charlotte	Yu Lan	3:55 - 4:10 pm (9:55 - 10:10 am)

**Session 5 - Chair: Haosheng Huang, Co-chair: Angela Yao (4:30 - 5:45 pm)**

Haoyu Shi	The Effect of Educational Attainment on COVID-19 Morbidity in the City of Chicago	University of Chicago	Haoyu Shi	4:30 - 4:45 pm (9:30 - 9:45 am)
Lei Zou, Binbin Lin, Mingzheng Yang, Bing Zhou, Heng Cai	Revealing the Geographical Disparities of Global Covid-19 Awareness and its Health Effects through Social Media	Texas A&M University	Lei Zou	4:45 - 5:00 pm (9:45 - 10:00 am)
Sarbeswar Praharaj Elizabeth Wentz, Patricia Solis	Deploying Geospatial Visualization Dashboards to Combat the Economic Impacts of COVID-19	Arizona State University	Sarbeswar Praharaj	5:00 - 5:15 pm (9:00 - 9:15 am)
Shelley Grant Adeline Schlusel	Expanding pilot-project analyses on changing patterns in large-sized urban parks usage tied to COVID-19 policy, public health and urban development concerns	University of Washington	Shelley Grant	5:15 - 5:30 pm (8:15 - 8:30 am)

Glen Farrelly	User Experience and Adoption Challenges of a COVID-19 Contact Tracing Application: A Qualitative Study	Athabasca University	Glen Farrelly	5:30 - 5:45 pm (9:30 - 9:45 am)
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**Day-2 : Dec. 14, 2021**

<b>Session 6 - Chair: Bin Jiang; Co-chair: Xintao Liu (8:30 - 9:50 am)</b>				
Siqin Wang, Ruomei Wang, Xiao Huang, Zhenlong Li	An analytical framework to evaluate the effect of COVID-19 on the restaurant industry: a study of New York City	University of Queensland, University of Arkansas, University of South Carolina	Siqin Wang	8:30 - 8:45 am (5:30 - 5:45 pm)
Zidong Yu, Xintao Liu	Spatial variations of the third and fourth COVID-19 waves in Hong Kong: a comparative study with built environments and socio-demographics	The Hong Kong Polytechnic University	Zidong Yu	8:45 - 9:00 am (3:45 - 4 pm)
Bin Jiang	A power-law-based approach to mapping COVID-19 cases in the United States	University of Gävle	Bin Jiang	9:00- 9:15 am
Huanfa Chen, Xiaowei Gao, Kangdi Chen, Honghan Bei	Tackling the spatial disparity of COVID-19 vaccination services: a spatial optimisation approach	University College London, Dalian Maritime University	Huanfa Chen	9:15 - 9:30 am (8: 15 - 8:30 am)
Mateusz Tomal Marco Helbich	The private rental housing market before and during the COVID-19 pandemic	Cracow Univ. of Economics Utrecht University	Mateusz Tomal	9:30- 9:45 am
<b>Session 7 - Chair: Jukka Krisp; Co-chair: Haosheng Huang (1:30 - 2:50 pm)</b>				
S.Milusheva, R. Marty, A. Legovini, P. Taniform, C. Dolkart K.Gakuo, A. Dolinger, G.Bedoya	COVID-19 Policies and Road Safety: The Case of Nairobi	World Bank, Flare	Sveta Milusheva	1:30 - 1:45 pm (7:30 - 7:45 am)
Jia Lu, Shaun Ault Bin Jiang	Comparison of the Spread of the Coronavirus: Topological Data Analysis of Countries	Valdosta State University University of Gävle	Jia Lu	1:45 - 2:00 pm (7:45 - 8:00 am)
Andrew Curtis, Jayakrishnan Ajayakumar, Jacqueline Curtis	Introducing a Spatial Syndromic Surveillance Approach to Identify Emergent Clusters of COVID 19	Case Western Reserve University	Andrew Curtis	2:00 - 2:15 pm (8:00 - 8:15 am)
Xuebin Wei, Angela Yao Hao Yang	Interactive and multi-scale web mapping and visual analysis of COVID-19 data	James Madison University University of Georgia	Xuebin Wei	2:15 - 2:30 pm (8:15 - 8:30 am)
Junghwan Kim Mei-Po Kwan	An examination of people's privacy concerns, perceptions of social benefits, and acceptance of COVID-19 mitigation measures that harness location information	Harvard University The Chinese University of Hong Kong	Junghwan Kim	2:30 - 2:45 pm (8:30 - 8:45 am)

**Closing Remarks (2:50 - 3:00 pm)**