

**PERSONAL INFORMATION**

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**EDUCATION**

- Contract professor at the Campus Bio-Medico University of Rome (September 2023)
- *PhD in Information and Communication Technologies (ICT)* at Department of Computer Engineering, Modeling, Electronics and Systems (DIMES), University of Calabria (July 2023)
- *M.Sc. in Computer Engineering*, University of Calabria (April 2019)
- *B.Sc. in Computer Engineering*, University of Calabria (December 2016)

**THESIS SUPERVISOR**

- 3 Bachelor's Degree students in Computer Engineering (UNICAL)
- 1 Master's Degree student in Management and Conservation of Digital Documents (UNICAL)
- 4 Master's Degree in Medicine and Surgery (UCBM)

**RESEARCH PROJECTS**

- H2020 "ASPIDE - exAScale ProgramIng models for extreme Data procEssing", funded by the European Commission
- COVIDA - COrona VIRus Data Analytics
- EPISOS - EPidemic Intelligence System from Open Sources

**PROFESSIONAL SERVICES****Editorial Board**

- PLOS ONE
- PLOS Global Public Health
- Societal Impacts

**Reviewer Editor**

- Frontiers in Public Health - Digital Public Health

**Reviewer**

- IEEE Access Journal
- IEEE Transactions on Computational Social Systems
- IEEE International Conference on Big Data (IEEE Big Data 2020)

- IEEE International Conference on Big Data (IEEE Big Data 2021)
- IEEE 2021 International Conference on Machine Learning and Applications
- MDPI journals (Big Data and Cognitive Computing, Electronics, Sensors, Informatics, Methods and Protocols)
- Epidemiology & Infection
- International Journal of Epidemiology
- International Journal of Infectious Diseases
- ACS Omega
- Tropical Medicine and Health
- Transboundary and Emerging Diseases

#### **Program committee member**

- TheWebConf2023: The ACM Web Conference 2023

#### **Guest Editor**

- Special Issue "Challenges and Perspectives of Open Data in Modelling Infectious Diseases"

### **PUBLICATIONS**

#### **Papers in conference proceedings**

1. Branda F, Marozzo F, Talia D. Discovering Travelers' Purchasing Behavior from Public Transport Data. In International Conference on Machine Learning, Optimization, and Data Science 2020 Jul 19 (pp. 725-736). Springer, Cham.

#### **Papers in journal**

1. Branda F, Marozzo F, Talia D. Ticket sales prediction and dynamic pricing strategies in public transport. *Big Data and Cognitive Computing*. 2020 Nov 27;4(4):36.
2. Belcastro L, Marozzo F, Talia D, Trunfio P, Branda F, Palpanas T, Imran M. Using social media for sub-event detection during disasters. *Journal of big data*. 2021 Dec;8(1):1-22.
3. Belcastro L, Branda F, Cantini R, Marozzo F, Talia D, Trunfio P. Analyzing voter behavior on social media during the 2020 US presidential election campaign. *Social Network Analysis and Mining*. 2022 Dec;12(1):1-6.
4. Branda F. Impact of the additional/booster dose of COVID-19 vaccine against severe disease during the epidemic phase characterized by the predominance of the Omicron variant in Italy, December 2021-May 2022. medRxiv.
5. Branda F, Abenavoli L, Pierini M, Mazzoli S. Predicting the Spread of SARS-CoV-2 in Italian Regions: The Calabria Case Study, February 2020–March 2022. *Diseases*. 2022 Jun 30;10(3):38.
6. Branda F, Tosi D. Comparing Worldwide, National, and Independent Notifications about Adverse Drug Reactions Due to COVID-19 Vaccines. *Information*. 2022 Jul 8;13(7):329.
7. Branda F, Pierini M, Mazzoli S. Hepatitis of unknown origin in children: why and how to create an open access database. *Journal of Clinical Virology Plus*. 2022 Jul 30:100102.
8. Branda F, Pierini M, Mazzoli S. Monkeypox: EpiMPX surveillance system and open-data with a special focus on European and Italian epidemic. *Journal of clinical virology*

plus. 2022 Oct 4:100114.

9. Branda F, Pierini M, Mazzoli S. Monkeypox: Early Estimation of Basic Reproduction Number R0 in Europe. *J Med Virol.* 2022 Nov 1. doi: 10.1002/jmv.28270.
10. Branda F, Maruotti A. 2022 Uganda Ebola outbreak: early descriptions and open data. *Journal of Medical Virology.* 2022 Nov 24.
11. Branda F, Mahal A, Maruotti A, Pierini M and Mazzoli S (2023), The challenges of open data for future epidemic preparedness: The experience of the 2022 Ebolavirus outbreak in Uganda. *Front. Pharmacol.* 14:1101894. doi: 10.3389/fphar.2023.1101894.
12. Branda F, Lodi G. Challenges and Perspectives of Open Data in Modelling Infectious Diseases. *Data.* 2023 Feb;8(2):27.
13. Piconi S, Pontiggia S, Franzetti M, Branda F, Tosi D. Statistical models to predict clinical outcomes with anakinra vs. tocilizumab treatments for severe pneumonia in COVID19 patients. *European Journal of Internal Medicine.*
14. Branda F, Scarpa F, Ciccozzi M, Maruotti A. Is a new COVID-19 wave coming from China due to an unknown variant of concern? Keep calm and look at the data. *J Med Virol.* 2023 Feb 23. doi: 10.1002/jmv.28601. Epub ahead of print. PMID: 36815498.
15. Branda F, Mazzoli S. The importance of rapid and robust availability of epidemiological data for real-time mapping of the risk of avian influenza a (H5N1) spread. *Pathogens and Global Health.* 2023 Jun 22:1-4.
16. Mingione M, Branda F, Maruotti A, Ciccozzi M, Mazzoli S. Monitoring the West-Nile virus outbreaks in Italy using open-access data. arXiv preprint arXiv:2306.02727. 2023 Jun 5. (Under review in Nature Scientific Data)
17. Giovanetti M, Branda F, Cella E, Scarpa F, Bazzani L, Ciccozzi A, Slavov SN, Benvenuto D, Sanna D, Casu M, Santos LA. Epidemic history and evolution of an emerging threat of international concern, the severe acute respiratory syndrome coronavirus 2. *Journal of Medical Virology.* 2023 Aug;95(8):e29012.
18. Ranjan K. Mohapatra, Snehasish Mishra, Venkataramana Kandi, Francesco Branda, Azaj Ansari, Ali A. Rabaan, Md. Kudrat-E-Zahan. "Analysing the Emerging Patterns of SARS-CoV-2 Omicron Subvariants for the Development of Next-Gen Vaccine: An Observational study". *Health Science Reports.*
19. Branda F, Pierini M, Mazzoli S, Ciccozzi M. "Investigating the evolutionary dynamics of the Highly Pathogenic Avian Influenza Virus A(H5N1) outbreaks in Italy, October 2021 - July 2023" (Under review in *Infectious Disease Reports*)

### Technical and scientific reports

1. Paradigms and Models at Run-time – Final Report. Deliverable D2.6, ASPIDE Project: Exascale programming models for extreme data processing No 801091.

Signature

