

LITHUANIAN COMPUTER SOCIETY
VILNIUS UNIVERSITY
INSTITUTE OF DATA SCIENCE AND DIGITAL TECHNOLOGIES
LITHUANIAN ACADEMY OF SCIENCES



12th Conference on
**DATA ANALYSIS
METHODS FOR
SOFTWARE
SYSTEMS**

Druskininkai, Lithuania, Hotel "Europa Royale"
<http://www.mii.lt/DAMSS>

December 2–4, 2021

VILNIUS UNIVERSITY PRESS
Vilnius, 2021

Co-Chairmen:

Dr. Saulius Maskeliūnas (Lithuanian Computer Society)

Prof. Gintautas Dzemyda (Vilnius University, Lithuanian Academy of Sciences)

Programme Committee:

Prof. Juris Borzov (Latvia)

Prof. Robertas Damaševičius (Lithuania)

Prof. Janis Grundspenkis (Latvia)

Prof. Janusz Kacprzyk (Poland)

Prof. Ignacy Kaliszewski (Poland)

Prof. Yuriy Kharin (Belarus)

Prof. Tomas Krilavičius (Lithuania)

Prof. Julius Žilinskas (Lithuania)

Organizing Committee:

Dr. Jolita Bernatavičienė

Dr. Olga Kurasova

Dr. Viktor Medvedev

Dr. Martynas Sabaliauskas

Laima Paliulionienė

Contacts:

Dr. Jolita Bernatavičienė

jolita.bernatavicienne@mif.vu.lt

Dr. Olga Kurasova

olga.kurasova@mif.vu.lt

Tel. +370 5 2109 315

Copyright © 2021 Authors. Published by Vilnius University Press.

This is an Open Access article distributed under the terms of the Creative Commons Attribution Licence, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

<https://doi.org/10.15388/DAMSS.12.2021>

ISBN 978-609-07-0673-2 (print)

ISBN 978-609-07-0674-9 (digital PDF)

COVID-19 Infection in Lithuania: Analysis of Social-Economic Consequences

Jurgita Markevičiūtė¹, Jolita Bernatavičienė²,
Rūta Levulienė¹, Viktor Medvedev², Povilas Treigys²

¹ Institute of Applied Mathematics
Vilnius University

² Institute of Data Science and Digital Technologies
Vilnius University

jurgita.markeviciute@mif.vu.lt

Using statistics, econometrics, machine learning, and functional data analysis methods, we evaluate the consequences of the lockdown during the COVID-19 pandemics for wage inequality and unemployment. We deduce that these two indicators mostly reacted to the first lockdown from March till June 2020. Also, analysing wage inequality, we conduct analysis separately for males and females and different age groups. We noticed that young females were affected mostly by the lockdown. Nevertheless, all the groups reacted to the lockdown at some level.