Journal of The Institution of Engineers (India): Series B

Volume 102 · Issue 6 · December 2021

Special Issue: Data Science for Global Crisis: COVID19 and Beyond

About the Theme: Partha Pratim Das

Guest Editors: Samiran Chattopadhyay · K M Bhurchandi · Mukul S Sutaone ·

Edmond Shu Lim Ho

ORIGINAL CONTRIBUTIONS

A Hybrid Model based on mBA-ANFIS for COVID-19 Confirmed Cases Prediction and Forecast S. Saif · P. Das · S. Biswas 1123

A Multivariate Spatiotemporal Model of COVID-19 Epidemic Using Ensemble of ConvLSTM Networks S.K. Paul · S. Jana · P. Bhaumik 1137

Analysis of Drivers of Digital Learning in COVID-19 and Post-COVID-19 Scenario Using an ISM Approach R. Agrawal · V.A. Wankhede · R.S. Nair 1143

AutoNotes: A Touch-Free Blink-Based Interactive
Model for Generation of Notes from Lecture Videos
P. Kar · S. Banerjee · S. Chakraborty · M. Chattopadhyay 1157

CARD Predictive Modeling and SEI Formulation: COVID-19 Statistics in India

D. Majumder · S. Mazumder · P. Ghosal 1167

Competitive Deep Learning Methods for COVID-19 Detection using X-ray Images

H. Swapnarekha · H.S. Behera · D. Roy · S. Das · J. Nayak 1177

Development of Intelligent Transportation System and Its Applications for an Urban Corridor During COVID-19 S. Jain · S.S. Jain 1191

Forecasting of COVID 19 Cases in Karnataka State using Artificial Neural Network (ANN)
R.P. Shetty · P.S. Pai 1201

Modeling of Total Cases due to COVID-19 and its Impact in India

K. Kulkarni · A. Kulkarni · N.S. Shaikh · S. Sayyed 1213

Modeling the Direction and Volume of Trade Flows in Global Crisis, COVID-19

A. Tyagi · U. Shah 1225

Queers in Quarantines: Impact of Lockdown and Social Distancing on Psychology of Transgender S. Priyadarshini · S.C. Swain 1233

Simulations of Lévy Walk

V. Abhignan · S. Rajadurai 1243

South Asian Countries are Less Fatal Concerning COVID-19: A Fact-finding Procedure Integrating Machine Learning & Multiple Criteria Decision-Making (MCDM) Technique S. Guhathakurata · S. Saha · S. Kundu · A. Chakraborty · J.S. Banerjee 1249

Spatiotemporal Analysis of COVID-19 Pandemic and Predictive Models based on Artificial Intelligence for different States of India
P. Guha 1265

Time Series Analysis of COVID-19 Data to Study the Effect of Lockdown and Unlock in India S. Singh · C. Chowdhury · A.K. Panja · S. Neogy 1275

CASE STUDIES

AI Techniques and Mathematical Modeling to Detect Coronavirus

K. Ahmed · N. Gouda 1283

Finding Prediction of Interaction Between SARS-CoV-2 and Human Protein: A Data-Driven Approach M. Ghosh · P. Sil · A. Roy · R. Fajriyah · K.C. Mondal 1293

Predicting the New Cases of Coronavirus [COVID-19] in India by Using Time Series Analysis as Machine Learning Model in Python
V. Kulshreshtha · N.K. Garg 1303

REVIEW PAPERS

COVID-19 Effect on Supply and Demand of Essential Commodities using Unsupervised Learning Method P. Anitha · M.M. Patil · R.B. Venkatapur 1311

Evolution of Smart Healthcare: Telemedicine During COVID-19 Pandemic

G. Sageena · M. Sharma · A. Kapur 1319

ARTICLE OF PROFESSIONAL INTERESTS

A Survey on the Effectiveness of Online Teaching–Learning Methods for University and College Students

P.S.H. Darius · E. Gundabattini · D.G. Solomon 1325

Further articles can be found at link.springer.com

Indexed/abstracted in Scopus, Google Scholar, EBSCO, OCLC, Summon by ProQuest

Instructions for Authors for *J. Inst. Eng. India Ser. B* are available at http://www.springer.com/40031