

Application

File number 440.20.048

Grant Corona: Fast-track data

Applicant

5.1.2e

Title

Controlling COVID-19's infection force: A data-driven real-time model

Abstract

Using several readily available real-time big data sources (e.g., traffic), RIVM data, and Corona app data, we will model, validate, and forecast COVID-19's infection force in the Netherlands in real-time. Our infection force model provides the government reliable, real-time, age-varying forecasts on scenarios considered to control the virus outbreak. So, mortality, pressure on health services, and economic disruption can be reliably balanced against restrictions on behavior (e.g., keep schools and business closed).

Planned start date 09-04-2020

Planned end date 07-10-2020

Organisation responsible for the application

Universiteit Utrecht
 Faculteit Bètawetenschappen
 Departement Informatica

Implementing organisation

Universiteit Utrecht
 Faculteit Bètawetenschappen
 Departement Informatica

Research fields

More relevant

Code

16.20.00
 23.80.00
 16.40.00
 Less relevant

Discipline

Software, algorithms, control systems
 Epidemiology
 Information systems, databases

Main research field

Computer science
 Medicine
 Computer science

Keywords

-BIG DATA
 -MATHEMATICAL EPIDEMIOLOGY
 -AGE-VARYING
 -DYNAMIC
 -MODELING
 -INFECTION FORCE
 -VALIDATION
 -REAL-TIME

Documents

In this application, the following documents are attached:

- Application form

Confirm application

With submitting this form via ISAAC I declare to have filled in this form completely and truthfully.

**Applicant**

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