

## SUSTech, ETH Zürich and Gavekal Team Up on COVID-19 Analysis

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The Southern University of Science and Technology, Shenzhen, China, and ETH Zurich, Switzerland, have recently teamed up with Gavekal Intelligence Software to conduct collaborative research in finance and risk management.

Our first co-publication, *Generalized logistic growth modeling of the COVID-19 outbreak in 29 provinces in China and in the rest of the world*, offers an extensive statistical analysis of the COVID-19 outbreak and some projections as to its future developments in the world.

The extreme containment measures implemented by China were very effective, albeit with some variations in local provinces. For other countries, it is almost inevitable to see the continuation of the outbreak in the coming months. Japan and Italy are in especially dangerous situations, with no short-term end to the outbreak expected. A significant risk concerning the July 2020 Summer Olympics in Tokyo could be expected. Iran's situation is highly uncertain with still unclear yet negative future scenarios, while South Korea is approaching the end of the outbreak. Both Europe and the USA are at early stages of the outbreak, posing significant health and economic risks to the world in absence of serious measures.

The publication also demonstrates the dynamics of reactive vs. proactive containment measures across Chinese provinces. The provinces that have responded sluggishly during the early phase of the epidemics seem to have ramped up aggressively their countermeasures to achieve good results. The consequence is an inverse relationship between the number of days from the start to the peak of the epidemics, and from the peak to the end.

In other words, alarming beginnings can be reversed by countermeasures.

You can access the full study through the below link:

<http://arxiv.org/abs/2003.05681>