

MIT Industrial Liaison Program Faculty Knowledgebase Report

Data Analytics: Solutions to the Pandemic

June 25, 2020 11:00 am - 1:00 pm

11:00am - 12:00pm

Returning to 'Normal' via Targeted Lockdowns and Personalized Treatments: An Analytics Approach to COVID-19

Dimitris Bertsimas

Boeing Professor of Operations Research

Co-Director, Operations Research Center (ORC)

Faculty Director, Master of Business Analytics, [MIT Sloan School of Management](#)



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Dimitris Bertsimas is the Boeing Professor of Operations Research, the codirector of the Operations Research Center, and faculty director of the Master of Business analytics at MIT. His research interests include optimization, machine learning and applied probability and their applications in health care, finance, operations management, and transportation. Bertsimas has coauthored more than 200 scientific papers and four graduate level textbooks. He is the editor in Chief of INFORMS Journal of Optimization. He has supervised 67 doctoral students and is currently supervising 25 others. Bertsimas is a member of the National Academy of Engineering, an INFORMS fellow, and has received numerous prestigious research and teaching awards. He holds an SM in applied mathematics and a PhD in operations research from MIT.

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Professor Dimitris Bertsimas will discuss his group's contributions to the COVID-19 crisis using analytics. His group has developed models to predict state by state infection and mortality rates based upon each state's policy decisions, and models to predict infections without testing, as well as mortality risk of those who are admitted to hospitals with the disease. Dimitris Bertsimas is the Associate Dean of Business Analytics, Boeing Professor of Operations Research, and faculty director of the Master of Business Analytics at MIT and has started several companies, authored many books, and mentored hundreds of graduate students. Below is further information on the event, and we look forward to your participation.

In a few short months, COVID-19 has devastated communities around the world. Dimitris Bertsimas will present the ongoing work of his group of 25+ PhD and Masters students and colleagues at MIT (<http://www.covidanalytics.io/team>) on a variety of aspects of COVID-19 as detailed at covidanalytics.io. The website contains many downloadable models and data.

The COVID-19 Policy Alliance: Reopening the Country Using Actionable Data Intelligence

Simon Johnson

Ronald A Kurtz (1954) Professor of Entrepreneurship,
Professor of Global Economics and Management, [MIT Sloan School of Management](#)



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Simon Johnson is the *Ronald A. Kurtz (1954) Professor of Entrepreneurship* at the MIT Sloan School of Management, where he is head of the Global Economics and Management group. In 2007-08 he was chief economist at the International Monetary Fund, and he currently co-chairs the [CFA Institute Systemic Risk Council](#). In February 2021, [Johnson joined the board of directors of Fannie Mae](#).

Johnson's most recent book, with Daron Acemoglu, [Power and Progress: Our 1000-Year Struggle Over Technology and Prosperity](#), explores the history and economics of major technological transformations up to and including the latest developments in Artificial Intelligence.

His previous book, with Jonathan Gruber, [Jump-Starting America: How Breakthrough Science Can Revive Economic Growth and the American Dream](#), explained how to create millions of good new jobs around the U.S. through renewed public investment in research and development. This proposal attracted [bipartisan support](#).

Johnson was previously a senior fellow at the Peterson Institute for International Economics in Washington, D.C., a cofounder of [BaselineScenario.com](#), a member of the Congressional Budget Office's Panel of Economic Advisors, and a member of the Federal Deposit Insurance Corporation's Systemic Resolution Advisory Committee. From July 2014 to early 2017, Johnson was a member of the Financial Research Advisory Committee of the U.S. Treasury's Office of Financial Research (OFR), within which he chaired the Global Vulnerabilities Working Group.

"[The Quiet Coup](#)" received over a million views when it appeared in *The Atlantic* in early 2009. His book [13 Bankers: the Wall Street Takeover and the Next Financial Meltdown](#) (with James Kwak), was an immediate bestseller and has become [one of the mostly highly regarded books on the financial crisis](#). Their follow-up book on U.S. fiscal policy, [White House Burning: The Founding Fathers, Our National Debt, and Why It Matters for You](#), won praise across the political spectrum. Johnson's academic research papers on long-term economic development, corporate finance, political economy, and public health are widely cited.

"For his articulate and outspoken support for public policies to end too-big-to-fail", [Johnson was named a Main Street Hero](#) by the Independent Community Bankers of America (ICBA) in 2013.

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Professor Simon Johnson will give an update on the progress of the COVID-19 Policy Alliance. They have made incredible progress on rapidly producing actionable data intelligence and operational recommendations that can help governmental entities and organizations make better policy decisions regarding the healthcare system and economy.