

Professor Yaneer Bar-Yam holds an SB and PhD in physics from MIT. Since the late 1980s he has contributed to founding the field of complex systems science, introducing fundamental mathematical rigor, real world application, and educational programs for new concepts and insights of this field.

His recent work quantitatively analyzes the origins and impacts of market crashes, social unrest, ethnic violence, military conflict and pandemics, the structure and dynamics of social networks, as well as the bases of creativity, panic, evolution and altruism.

He has advised the U.S. Government on global social unrest and the crises in Egypt and Syria, counterterrorism strategies, military force transformation, market regulation, delivery of disease prevention services and control of hospital infections. He regularly advises NGOs and corporations regarding their use of complex systems science.

He has authored more than 200 journal articles. His work on the causes of the global food crisis was cited among the top 10 scientific discoveries of 2011 by *Wired* magazine. His scientific visualizations received recognition as “best of” from *Wired* in 2011 and 2013, and from *Motherboard* in 2013.

International coverage of his work includes *The New York Times*, *The Wall Street Journal*, *The Washington Post*, *The Guardian*, *The Sunday Times*, *Die Zeit*, and *Le Monde*, among others.