



THE FIELDS INSTITUTE

DISTINGUISHED PUBLIC LECTURE

**PROF. ANDREW LO**

**MASSACHUSETTS INSTITUTE OF TECHNOLOGY**

# **Big Data, Big Brother, and Systemic Risk Measurement and Management**

**WEDNESDAY MARCH 25, 2015 AT 3:30 • THE FIELDS INSTITUTE, ROOM 230**

A recurring theme among the many narratives of the Financial Crisis of 2008 is the complexity of the financial system and the failure of private- and public-sector policies to anticipate and attenuate the Crisis. This failure may be a symptom of the emergence of a new type of risk to the financial system—systemic risk—and the growing mismatch between rapidly evolving financial technologies and increasingly antiquated regulations that were never designed to address these challenges. However, technology can also be used to improve regulation.

In this talk, Prof. Lo will provide an overview of new challenges to macroprudential policies and the potential for big data analytics to transform financial regulation, including self-stabilizing capital requirements, machine-learning models for consumer credit risk management, and aggregate risk measures that guarantee individual privacy.



**Andrew W. Lo is the Charles E. and Susan T. Harris Professor, a Professor of Finance, and the Director of the Laboratory for Financial Engineering at the MIT Sloan School of Management. His awards include the Alfred P. Sloan Foundation Fellowship, the Paul A. Samuelson Award, the American Association for Individual Investors Award, and the 2001 IAFE-SunGard Financial Engineer of the Year Award.**

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