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The whether of weather

In the late 19th century, science introduced many systems for classification of nature. In the 20th century the focus of science shifted more toward the study processes of nature. Science in the 21st century is predicted to tackle the understanding of complex systems. In this talk I will use weather forecasting to illustrate how science and mathematics have developed over the last century, and to illustrate some general concepts that seem to important in understanding complex systems. Of particular interest is the relationship between structure and process.