

## UTC INSTITUTE FOR ADVANCED SYSTEMS ENGINEERING Distinguished Lecture Series

Monday November 5<sup>th</sup>, 2018

1:00 - 2:00PM

UConn, Storrs Campus – IPB 203

[To view live webcast click here](#)

### Curious and Creative Machines

Can machines ask questions and create hypotheses? Despite the prevalence of big data, the process of distilling data into scientific laws has resisted automation. Particularly challenging are situations with small amounts of data that is difficult or expensive to collect, such as in robotics and other physical sciences. This talk will outline a series of recent research projects, starting with self-reflecting robotic systems, and ending with machines that can formulate hypotheses, design experiments, and interpret the results, to discover new scientific laws. We will see examples from geology to cosmology, from classical physics to modern physics, from big science to small science.

### Hod Lipson

Hod Lipson is a professor of Engineering and Data Science at Columbia University in New York, and a co-author of the award winning book "[Fabricated: The New World of 3D Printing](#)", and "[Driverless: Intelligent Cars and the Road Ahead](#)". His work on self-aware and self-replicating robots challenges conventional views of robotics. Lipson directs the Creative Machines Lab, which pioneers new ways to make machines that create, and machines that are creative.

For more information visit <http://hodlipson.com>

Upcoming  
Distinguished Lectures

#### Upcoming Seminars

Hamsa Balakrishnan,  
Massachusetts Institute of  
Technology (MIT),  
November 12, 2018

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