

CSS LECTURE LIBRARY

The Online Lecture Library (<http://www.ieeecss-oll.org/>), an initiative of the IEEE Control Systems Society (CSS), features plenary lectures from CSS conferences and other selected content. The library has recently been updated to include talks from the 2017 American Control Conference (ACC), the Conference on Decision and Control (CDC), and the Conference on Control Technology and Applications (CCTA). These talks are listed below.

2017 CDC

- » “Rolling Horizon Stochastic Policy Optimization with Application to the Treatment of Type-1 Diabetes Mellitus” by Graham C. Goodwin
 - video: <http://www.ieeecss-oll.org/node/113>
- » “Control Engineers: The Unsung Heroes of Battery Technology” by Ana G. Stefanopoulou
 - video: <http://www.ieeecss-oll.org/node/114>
- » “The Role of Structure in Optimization and Control: How to Detect It, and How to Exploit It” by Pablo Parrilo
 - video: <http://www.ieeecss-oll.org/node/115>

The library has recently been updated to include talks from the 2017 American Control Conference, the Conference on Decision and Control, and the Conference on Control Technology and Applications.

- » “Learning from Nature: When Models Meet Multitudes” by Naomi E. Leonard
 - video: <http://www.ieeecss-oll.org/node/116>

2017 ACC

- » “Achieving High-Level Control Goals with Model Predictive Control” by James Rawlings
 - video: <http://www.ieeecss-oll.org/node/117>
- » “Model Reduction of Networks Preserving the Network First and Second-Order Structure” by Jacquélien Scherpen
 - video: <http://www.ieeecss-oll.org/node/118>
- » “A Data-Driven Approach to Nonlinear Systems Control, Robotics, and Life Sciences in the Era of Big Data” by Harry Asada
 - video: <http://www.ieeecss-oll.org/node/119>

- » “Flying Robots: Towards Smaller, Safer, Smarter, and Faster UAVs” by Vijay Kumar
 - video: <http://www.ieeecss-oll.org/node/121>
- » “Graph-Theoretic Convexification of Polynomial Optimization Problems with Applications to Power Systems and Distributed Control” by Javad Lavaei
 - video: <http://www.ieeecss-oll.org/node/120>

2017 CCTA

- » “Connected Vehicles: Closing the Loop with the Highway” by Petros Ioannou
 - video: <http://www.ieeecss-oll.org/node/112>