

Anirudh Allam

Ph.D. Student in Energy Resources Engineering

Bio

HONORS AND AWARDS

- Centennial Teaching Assistant Award, Stanford University (2020)

PATENTS

- Anirudh Allam, Simona Onori. "United States Patent WO/2020/186269 BATTERY MONITORING SYSTEM", LELAND STANFORD JUNIOR UNIVERSITY, Mar 16, 2020
- Anirudh Allam, Ashokkumar Velusamy. "India Patent 3652/CHE/2012 DETECTION OF UNDER-INFLATED TIRES", NISSAN MOTOR CO. LTD., Jul 3, 2015
- Anirudh Allam, Ashokkumar Velusamy. "India Patent 3653/CHE/2012 DETECTION OF UNDER-INFLATED TIRES", NISSAN MOTOR CO. LTD., Jul 3, 2015

Publications

PUBLICATIONS

- **Online Capacity Estimation for Lithium-Ion Battery Cells via an Electrochemical Model-Based Adaptive Interconnected Observer** *IEEE Transactions on Control Systems Technology*
Allam, A., Onori, S.
2020: 16
- **A Novel Lithium-ion Battery Pack Modeling Framework - Series-Connected Case Study** *2020 American Control Conference (ACC)*
Weaver, T., Allam, A., Onori, S.
2020
- **Exploring the dependence of cell aging dynamics on thermal gradient in battery modules: A PDE-based time scale separation approach** *European Control Conference (ECC)*
Allam, A., Onori, S.
2019
- **An Interconnected Observer for Concurrent Estimation of Bulk and Surface Concentration in the Cathode and Anode of a Lithium-ion Battery** *IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS*
Allam, A., Onori, S.
2018; 65 (9): 7311–21
- **Characterization of Aging Propagation in Lithium-ion Cells Based on an Electrochemical Model**
Allam, A., Onori, S., IEEE
IEEE.2016: 3113–18
- **Battery Health Management System for Automotive Applications: A retroactivity-based aging propagation study**
Allam, A., Onori, S., Marelli, S., Taborelli, C., IEEE
IEEE.2015: 703–16