

TEC+2022

PANEL 2: BATTERY CHEMISTRY AND ALGORITHM ADVANCEMENTS FOR ELECTRIC VEHICLES AND AIRCRAFT



Speakers:



YING SHI

Technical Specialist,
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Research Engineer at
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AUSTIN DULANEY

Principal Data Scientist at
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The onboard battery technology is an inevitable topic when it comes to transportation electrifications. Not only does it primarily determine the driving range but also it has a high impact on charging speed. Advanced battery cell and pack designs and sensing strive to minimize manufacturing cost and maximize the hardware capability. Complimentarily, unlocking the battery's full potential requires accurate and optimized battery models and algorithms. The experienced academic researchers and seasoned industrial professionals are invited to discuss the tradeoffs of designing and manufacturing battery cells and packs, battery algorithm design strategy based on various cell chemistries, challenges of fast charging, advanced battery sensing, and the future trends of battery chemistry and algorithm improvements.

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