

AEROSPACENGINEERINGSCIENCES

Seminar



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Global Navigation Satellite Systems for Remote Sensing Applications

In thtposition intervigation, and timing (PNT) solutions. Moreover, the distortions of GNSS signals caused by these factors contain information on the signal propagation interval offer a powerful of for passively sensing our environment. This presentation will focus on our effort evelop a worldwide network of GNSS sensors to capture and characterize the effects of ionospheric plasma disturbances on GNSS gnals develop ovel GNSS receiver algorithms to mitigate state effects, and utilize the effects to study thupper atmosphier responses to solar and geomagnetic activities. The presentation will also discuss our future directions by highlight our recent activities to broadenthe scope obur efforts including applying GNSS for sensing of lower tropospheriater vapor, ocean surface conditions, and disturbance before the offerth surface Several GNSS application projects involving undergraduate students also be presented

Mon day , April 25, 2016 11:00 AM Onizuka Conference Room

Dr. Jade Morton is an electrical engineering Professor at Colorado State University. She received a PhD in EE from Penn State and was a postictoral research fellow at the University of Michigan. Prior to joining CSU, she was a professor at Miami University where she led the creation of its Electrical and Computer Engineering Department. Her research interests lie at the intersection of satellite navigation technologies and remote sensing of the Earth's atmosphere and surface. Her research and educational activities boxused on developing advanced navigation and resource in techniques, studying the atmosphere using navigation satellite signals and other instruments, and developing new applications using satellite navigation technologies. She has received numerous research, teaching, and service awards and has served both the satellite navigation and atmospheric scientosumeunities in various capacities he is a fellow of IEEE and a fellow of ION.