## 英語講演会 事前申込不要

## 東北大学大学院工学研究科 次世代航空機研究センターからのお知らせ

TU Next Seminar in Applied Mechanics and Computational Engineering

日時:2019 年 12 月 16 日(月), December 16th 2019, 13:30-14:30

場所:東北大学大学院工学研究科 機械 知能系 2 共同棟 611 号室 Room611 Research Building MAE

講師: Prof. Inderjit Chopra (University of Maryland)

Chopra 教授のホームページ: https://aero.umd.edu/clark/faculty/18/Inderjit-Chopra

演題: Small UAS and Delivery Drones: Challenges & Opportunities

During the past one-decade, there has been phenomenal growth of small-unmanned aerial systems (UAS) for hobbyists and rapidly expanding commercial and military applications. Impetus for this dramatic expansion has been due to explosion of mobile technology in terms of microelectronics, data processing and transmission capability, superior batteries, miniaturized integrated programmable chips, and innovations in computer vision and videography/photography. However, there are many challenges to overcome before these small UAS can be used for routine commercial and military applications, which include sizable payload and range, stringent navigation/guidance requirements, and precision takeoff/landing and robust autonomous flight in constrained and low-altitude gusty environment. The objective of this presentation is to cover state-of-the-art of small UAS and delivery drones, identify technology gaps and key scientific barriers, and present future research needs for high payoff applications.

## 本講演会の開催にあたり

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