Special Issue

Technologies for Future Distributed Engine Control Systems

Message from the Guest Editors

Current trends in aviation greatly expand the use of highly integrated, increasingly autonomous air vehicles, with distributed engine control systems (DECS). Such systems allow for optimizing engine performance by enhancing propulsion control architecture. In DECS, each system element (i.e., sensors, actuators, and controllers) individually connects to the network and has multiple functions. Some of them require real-time communication for control while others may be less time critical. The weight of wiring and need for cooling are significantly reduced in the engine controlled by a DECS when compared to the traditional centralized FADEC.

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