



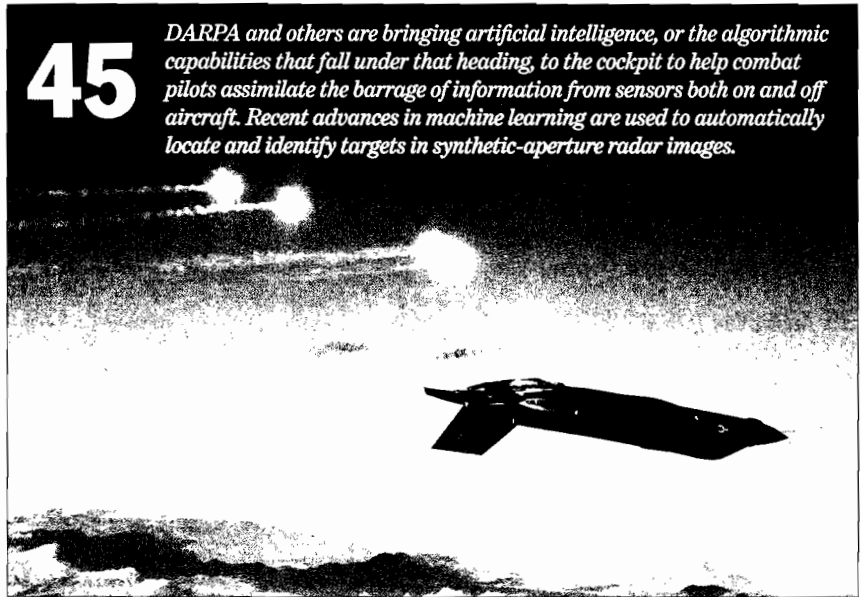
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AVIATIONWEEK
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- 7 Feedback
- 8 Who's Where
- 9-10 First Take
- 11 Up Front
- 12 Going Concerns
- 13 Inside Business Aviation 
- 14 Airline Intel
- 16 Leading Edge
- 17 In Orbit
- 18 Washington Outlook
- 63 Classified
- 64 Contact Us
- 65 Aerospace Calendar



45 DARPA and others are bringing artificial intelligence, or the algorithmic capabilities that fall under that heading, to the cockpit to help combat pilots assimilate the barrage of information from sensors both on and off aircraft. Recent advances in machine learning are used to automatically locate and identify targets in synthetic-aperture radar images.

COMMERCIAL AVIATION

- 20 Boeing's mulling** of a further stretch of its 737 MAX underscores narrowbody competition heat
- 21 Airbus debates** raising single-aisle production again, looks at widebody versions
- 24 'Delinquent' suppliers** are warned by Airbus that late deliveries will incur severe penalties
- 26 China suspends** approvals for new airlines in wake of concern over fragmentation of industry skills
- 47 Embraer kicks off** E2 flight-test program, riding a wave of maturing technology developments
- 49 Rolls-Royce brings** to life strategy behind the portfolio of Advance engine technologies, architecture

51 Alitalia is on track to be profitable, largely with help from its biggest stakeholder, Etihad Airways

59 Vibrant, diverse aircraft finance industry in Asia-Pacific region now looks beyond home market



61 Asian low-cost carriers keep on ordering aircraft and launch alliances to continue growing

SPACE

52 Advanced required navigation performance will enable legacy jets to use NextGen procedures

27 Satellite broadband market attracts established players despite sluggish demand

31 U.S. intelligence officials seek new ways to capitalize on latest imaging and collection technologies

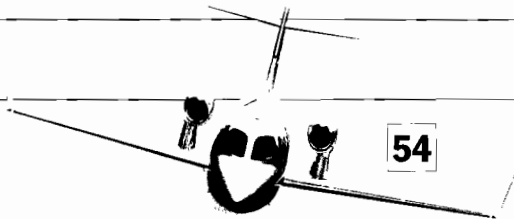
32 Orbital ATK prepares Antares to resume low-Earth-orbit missions, Cygnus cargo carrier for Moon

ON THE COVERS

This week, Aviation Week publishes two print editions. On the cover far left is the first entrant in a family of jets Honda intends to build. Our chief aircraft evaluation editor, Fred George, recounts his experiences flying the HA-420 (see page 54). Honda photograph. Elsewhere in both editions are reports on military sensors (page 42), Embraer's next-generation E2 regional jet (page 47) and helicopter flight controls (page 34). On the cover of our Defense Technology International edition is a U.S. Air Force Global Hawk UAS with the UTC Aerospace SYERS-2C sensor from the U-2. Northrop Grumman photograph by Alan Radecki. That edition contains an additional section of defense coverage. Aviation Week publishes a digital edition every week. Read it at AviationWeek.com/awst and on our app.



В.М. Н. З. БАУМАНА
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ROTORCRAFT

30 Airbus Helicopters tests new compound architecture to meet Clean Sky 2 requirements

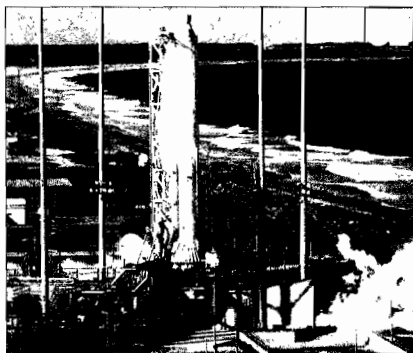
TECHNOLOGY

34 Flight-control upgrade for Chinook helicopters provides benefits at less cost than fly-by-wire

35 Australian-U.S. HIFiRE program completes Mach 7.5 test to help pave way for future hypersonics

DEFENSE

28 KF-X export prospects likely have dimmed following South Korea's opting for GE engines



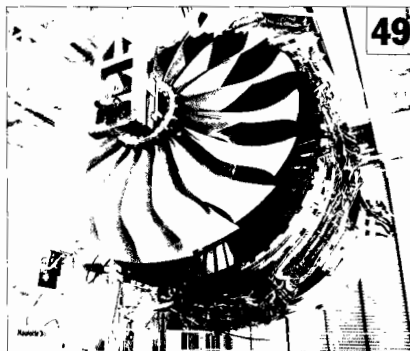
28 Qatar's modernized air forces could include the nascent Q01 optionally piloted surveillance vehicle

36 Australian special mission Gulfstream G550s likely linked to USAF Compass Call upgrade

38 Technologies pose challenges for Taranis unmanned combat air vehicle manufacture and testing

39 India is still seeking a permanent solution for its presidential and VVIP helicopter requirements

40 Defending computer networks gains urgency as GPS jamming, spoofing equipment proliferates



MILITARY SENSORS

42 The U-2's SYERS is evolving into a family of sensors that will be fitted to newer platforms

44 Raytheon's Multispectral Targeting System sensor ball gains new targeting capabilities

45 DARPA uses machine learning advances to improve automatic target recognition in combat

FLYING THE HONDAJET

54 HondaJet's unusual design earns Honda's first business jet high marks from our pilot

VIEWPOINT

66 Ripe technologies are ready to be harvested for those who look beyond A&D for inspiration



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