Uav Engine Test Stand

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(KCNA) North Korea's Academy of Defence Science (ADS) has test-fired ... twin-engine Shenyang J-16 multirole combat aircraft designated the J-16D. The increasing maturity of unmanned systems ...

North Korea conducts test-firing of new anti-air missile

TIM ROBINSON FRAeS reports from the 2021 DSEI defence exhibition, held in the Excel Centre, London on 14-17 September.

Defence back on show - DSEI 2021 report

Sean Gainey, USA, director of the Joint Counter-Unmanned Aircraft ... engine" but in the future, artificial intelligence will likely take over the task. Planning communications for different ...

artificial intelligence

("Plymouth Rock", "PRT", or the "Company"), a leader in developing detection apparatus and unmanned technologies, is pleased to announce the sale of custom drones to Survey-AR to deliver a drone swarm ...

Plymouth Rock Technologies Announces UAV 'Swarm' Development Contract from Survey- AR

We'll just go with "monocopter" for now and sort out the details later for this ducted-fan, thrust-vectored UAV. Whatever we ... He built a gimballed test stand to work the problem through ...

Single-Rotor Drone: A Thrust-Vectoring Monocopter

Known as the FH-97, it looks for all intents and purposes, like a clone of the XQ-58A Valkyrie, the stealthy, affordable unmanned aircraft that ... working to flight test an AI computer 'brain ...

China Is Cloning Kratos' XQ-58A Valkyrie Unmanned Combat Air Vehicle Concept (Updated)

The Airshow China event again offers insights into the country's unmanned air vehicle (UAV ... Finally, the CASC stand features a model of a UCAV designated FH-97, which is all but identical ...

Zhuhai UAV bazaar returns with a vengeance

Topics to be discussed include: Voltage Regulation (selection & application) and Generator Stability, Voltage Regulation and Parallel Operation, Automatic Synchronization, Designing an Excitation ...

Basler Power Control and Protection Conference Gives In-Depth Look at Power System

India and the United States had signed a Project Agreement (PA) in the end of July for Air-Launched Unmanned Aerial Vehicle (ALUAV ... while the JWG on jet engine cooperation was suspended.

India, U.S. signed co-development agreement for Air-Launched Unmanned Aerial Vehicle: Defence Ministry

"We will also have partners in our stand that are at the forefront in ... can be embedded almost anywhere within vehicles, robots, unmanned aerial vehicles (UAVs) and infrastructure.

Velodyne Showcases Advanced Lidar and Software Solutions for Intelligent Transportation Systems and Mobile Applications at IAA Mobility

While there was much to see during the show, including a range of combat aircraft and unmanned air vehicles ... At the aircraft display stands, it was the CBJ - a corporate derivative of ...

Zhuhai shows Chinese commercial market prowess, but uneasy realities remain
The light unmanned ground vehicle draws on IAI's ... meaning it can perform certain missions without running an engine that would allow for easy detectability by enemy forces.

IAI debuts new hybrid ground robot joining the UK army inventory
Within that network, the WZ-8 is used to visually confirm satellite detection of strategic targets such as aircraft carriers at stand-off ... the twin-engine TB001 UAV prominently exhibited ...

Australia to bolster defence ties with India, South Korea
An unmanned Boeing MQ-25 Stingray ... in the low end of contested environments." To stand a chance at dodging Chinese fighters, a four-engine KC-135 with its three crew should stay at least ...

The U.S. Air Force's Next Tanker Must Be Small, Stealthy And Robotic
"We will also have partners in our stand that are at the forefront in bringing to market ... use cases and can be embedded almost anywhere within vehicles, robots, unmanned aerial vehicles (UAVs) and ...

Velodyne Showcases Advanced Lidar and Software Solutions for Intelligent Transportation Systems and Mobile Applications at IAA Mobility
The light unmanned ground ... combat vehicles for big test with soldiers in 2022 With a deep pool of competitors worldwide developing light robotic combat vehicles, Avni said IAI is using artificial ...

Echoes of Memory allows the reader to travel back to a time that was simple and wholesome. Where the pace of life was slow, and the soul was unencumbered with the fast paced life of today. Where people struggled with The Great Depression, and were poor, but possessed a bountiful richness when it came to family and friends. It's a story about life and love, of good times and bad. It's about beginnings and endings, of dreams realized and dreams lost. It's about promises made and kept, and others broken through dishonesty, abandonment, and betrayal. It's about a country girl, and the struggles she went through. Struggles not unlike our own, for in many ways, her story is our story.

This book is devoted to recent developments of instrumentation and measurement techniques applied to the aerospace field. It includes 23 selected papers from the 2019 IEEE International Workshop on Metrology for AeroSpace. Measurements are essential for obtaining a deeper knowledge of a phenomenon or an asset, as well as for making proper decisions and proposing new and efficient solutions, and this is especially true in environments as complex as aerospace. The research contributions included in the book can raise the interest of a wide group of researchers, operators and decision-makers from metrology and aerospace fields by presenting the most innovative solutions in this field from the scientific and technological points of view.

This report relays the findings of the Special Advisor to the Director of Central Intelligence on Iraq's Weapons of Mass Destruction.

The charge of the Army Research Laboratory Technical Assessment Board (ARLTAB) is to provide biennial assessments of the scientific and technical quality of the research, development, and analysis programs at the Army Research Laboratory (ARL). The ARLTAB is assisted by six panels, each of which focuses on the portion of the ARL program conducted by one of ARL's six directorates1. When requested to do so by ARL, the ARLTAB also examines work that cuts across the directorates. For example, during 2011-2012, ARL requested that the ARLTAB examine crosscutting work in the areas of autonomous systems and network science. The overall quality of ARL's technical staff and their work continues to be impressive. Staff continue to demonstrate clear, passionate mindfulness of the importance of transitioning technology to support immediate and longer-term Army needs. Their involvement with the wider scientific and engineering community continues to expand. Such continued involvement and collaboration are fundamentally important for ARL's scientific and technical activities and need to include the essential elements of peer review and interaction through publications and travel to attend professional meetings, including international professional meetings. In general, ARL is working very well within an appropriate research and development niche and has been demonstrating significant accomplishments, as exemplified in the following discussion, which also addresses opportunities and challenges.

Parallel hybrid-electric propulsion systems would be beneficial for small unmanned aerial vehicles (UAVs) used for military, homeland security, and disaster monitoring missions involving intelligence, surveillance, or reconnaissance (ISR). The benefits include increased time-on-station and range than electric-powered UAVs and stealth modes not available with gasoline-powered UAVs. A conceptual design of a small UAV with a parallel hybrid-electric propulsion system, an optimization routine for the energy use, the application of a neural network to approximate the optimization results, and simulation results are provided. The two-point conceptual design includes an internal combustion engine sized for cruise and an electric motor and lithium-ion battery pack sized for endurance speed. The flexible optimization routine allows relative importance to be assigned between the use of gasoline, electricity, and recharging. The Cerebellar Model Arithmetic Computer (CMAC) neural network approximates the optimization results and is applied to the control of the parallel hybrid-electric propulsion system. The CMAC controller saves on the required memory compared to a large look-up table by two orders of magnitude.

The energy use for the hybrid-electric UAV with the CMAC controller during a one-hour and a three-hour ISR mission is 58% and 27% less, respectively, than for a gasoline-powered UAV.

A survey of commercially-available gas turbine, spark and compression ignition engines was conducted to evaluate their current and future relative suitability for the DoD's unmanned aerial vehicle (UAV) short and close range program. The effects on performance associated with reducing gas turbine engine size from full scale to UAV dimensions were examined. A small turbo-jet engine (produced in France for remotely piloted vehicles) was procured in order to evaluate what levels of performance, power and endurance potential are currently achieved in commercially-available small engines. An engine test rig was designed and built to conduct performance tests. The engine was installed, instrumented and operated successfully through a series of five to eight minute tests. Selected measurements form the test stand were entered into an engine performance code in order to establish what component efficiencies and cycle parameters were required for the code to output the measured values of specific thrust and specific fuel consumption. With realistic component efficiencies thus determined, they could be used to compare gas turbine engine performance with that of other small-scale propulsion systems.

This volume contains the proceedings of the 26th International Conference on Robotics in Alpe-Adria-Danube Region, RAAD 2017, held at the Polytechnic University of Turin, Italy, from June 21-23, 2017. The conference brought together academic and industrial researchers in robotics from 30 countries, the majority of them affiliated to the Alpe-Adria-Danube Region, and their worldwide partners. RAAD 2017 covered all major areas of R&D and innovation in robotics, including the latest research trends. The book provides an overview on the advances in service and industrial robotics. The topics are presented in a sequence starting from the classical robotic subjects, such as kinematics, dynamics, structures, control, and ending with the newest topics, like human-robot interaction and biomedical applications. Researchers involved in the robotic field will find this an extraordinary and up-to-date perspective on the state of the art in this area.