Digital Avionics

Papers Presented at the AIAA SciTech Forum and Exposition 2020

Orlando, Florida, USA 6 – 10 January 2020

ISBN: 978-1-7138-1083-4

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

The contents of this work are copyrighted and additional reproduction in whole or in part are expressly prohibited without the prior written permission of the Publisher or copyright holder. The resale of the entire proceeding as received from CURRAN is permitted.

For reprint permission, please contact AIAA's Business Manager, Technical Papers. Contact by phone at 703-264-7500; fax at 703-264-7551 or by mail at 34922 Uwptkug'Xcmg{'Ftkxg."Uwkg'422, Reston, VA 20191, USA.

TABLE OF CONTENTS

DIGITAL AVIONICS AND AIR TRAFFIC MANAGEMENT
INFORMATION MANAGEMENT TO MITIGATE LOSS OF CONTROL INFLIGHT AIRLINE ACCIDENTS
Tim Etherington, Lynda J. Kramer, Steven D. Young, Taumi S. Daniels
OBJECTIVE FLIGHT EVALUATION OF VISUAL CUE FOR DVE HELICOPTER OPERATION
Kohei Funabiki, Hiroka Tsuda, Akihiko Shimizu, Yurika Sugihara, Kazuho Tawada, Kaname Hasebe
PILOT CUEING FOR ROTORCRAFT SHIPBOARD LANDINGS
PRECISE RELATIVE NAVIGATION AND SEPARATION ASSURANCE OF UAS AND MANNED AIRCRAFT DURING LOW ALTITUDE AIRFIELD OPERATIONS 44 Eric Schuster, Christoph Struempfel, Svenja Huschbeck, Bastian Goebel, Christian Berth, Maarten Uijt De Haag
AIR TRAFFIC FLOW MANAGEMENT ENHANCEMENT EVALUATION THROUGH GROUND DELAYS AND CONTROLLED ENROUTE DELAYS
THE INFLUENCE OF SHAPE AND DENSITY OF EXEMPLARY CITY AREAS ON THE POSSIBLE BENEFIT OF OPTIMIZED NOISE ABATEMENT A-RNP AND RNP-AR PROCEDURES

Author Index