Computer Systems

Papers Presented at the AIAA Aviation Forum 2022

Chicago, Illinois, USA and Online 27 June – 1 July 2022

ISBN: 978-1-7138-5986-4

Printed from e-media with permission by:

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



a		•			43		•				41 .	• 4	•
Some	tormat	ICCITAC	inheren	t in	the e	-media	Version	may 9	alen ar	mear II	1 thic	nrint	version.
Some	ivi illat	issucs			u	-mcuia	VCI SIUII	11161 7 6	aisu ap	pcai ii	1 (1113	թւաւ	VCI SIUII.

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

ADVANCES IN COMPUTER SYSTEMS FOR AEROSPACE APPLICATIONS

Development of a High-Speed Data Acquisition System for Real-Time Structural Health Monitoring in Unmanned Aerial Systems Daniel Montes, Kyle Mitchell, Srikanth Gururajan	1
Experimental Comparison of Performance of Commercial-Off-The-Shelf (COTS) Flight Controllers on a Quadcopter	15
Henry T. Wright, Micah Dubach, Kyle Mitchell, Srikanth Gururajan	10
Author Index	