

Submission of Manuscripts

All manuscripts should be submitted online at: <http://www.edmgr.com/aeroj>
Any enquiries should be directed to Wayne J Davis at aerjournal@aerosociety.com.
The current set of instructions for authors are available at: <http://journals.cambridge.org/AER>

Subscriptions

The Aeronautical Journal (ISSN 0001-9240) is published monthly in 12 issues each year.

Non-Members

The subscription price (excluding VAT) to *The Aeronautical Journal* for volume 125 (2021), which includes print and electronic access, is £672 (USA, Canada and Mexico US\$1,006) and includes delivery by air; single parts are available at £64 (USA, Canada and Mexico US\$96) plus postage. The electronic-only price available to institutional subscribers is £588 (USA, Canada and Mexico US\$882). EU subscribers (outside the UK) who are not registered for VAT should add VAT at their country's rate. VAT registered subscribers should provide their VAT registration number. Orders, which must be accompanied by payment, may be sent to any bookseller or subscription agent or direct to the publishers: Cambridge University Press, University Printing House, Shaftesbury Road, Cambridge CB2 8BS, or in the USA, Canada, and Mexico to Cambridge University Press, Journals Fulfillment Department, 1 Liberty Plaza, Floor 20, New York, NY 10006, USA. Japanese Prices for institutions are available from Kinokuniya Company Ltd, P.O. Box 55, Chitose, Tokyo, Japan.

RAeS Conference Proceedings

Details, prices and availability of Royal Aeronautical Society Conference Proceedings can be obtained from: RAeS Conference and Events Department, No.4 Hamilton Place, London, W1J 7BQ, UK.
Tel: +44 (0)20 7670 4345, email: conference@aerosociety.com or via www.aerosociety.com/events/catch-up-on-events/conference-proceedings

Advertising

All advertising enquiries should be sent to Neeral Patel
partners@aerosociety.com

Internet Access

The Aeronautical Journal is included in the Cambridge Journals Online service and can be found at:
<http://journals.cambridge.org/AER>.

The Aeronautical Journal now supports open access publications across its hardcopy and online platforms, and accepts papers to consider for publication under both the 'green' and 'gold' open access options.

Information contained within *The Aeronautical Journal* has been published in good faith and the opinions expressed do not represent those of the Royal Aeronautical Society.

The Royal Aeronautical Society is a registered charity: No 313708

© 2021 Royal Aeronautical Society

All rights reserved. No part of this publication may be reproduced in any form or by any means, electronic, photocopying or otherwise, without permission in writing from Cambridge University Press. Permission to copy (for users in the USA) is available from the Copyright Clearance Center, <http://www.copyright.com>.

This journal issue has been printed on FSC™-certified paper and cover board. FSC is an independent, non-governmental, not-for-profit organization established to promote the responsible management of the world's forests. Please see www.fsc.org for information.

Printed in Great Britain by Bell & Bain Ltd, Glasgow.



ROYAL
AERONAUTICAL
SOCIETY

CONTENTS

Volume 125 Number 1289

July 2021

An expert system framework to support aircraft accident and incident investigations C.B.R. Ng, C. Bil and T. O'Bree	1131
Research on improvement and optimisation of modelling method of China's civil aircraft market demand forecast model Y. Zhang, K. Cao and W. Dong	1157
Numerical study of geometric morphing wings of the 1303 UCAV B. Nugroho, J. Brett, B.T. Bleckly and R.C. Chin	1192
Low-fidelity method for rapid aerostructural optimisation and design-space exploration of planar wings J.D. Taylor and D.F. Hunsaker	1209
Moving-mass-based station keeping of stratospheric airships L. Chen, Q. Gao, Y. Deng and J. Liu	1231
Prediction of aircraft estimated time of arrival using machine learning methods O. Basturk and C. Cetek	1245
Effects of forebody boundary layer on the performance of a submerged inlet W.Z. Xie, S.Z. Yang, C. Zeng, K. Liao, R.H. Ding, L. Zhang and S. Guo	1260

Front Cover: Inspection at crash site of Turkish Airlines flight TK 1951 at Schiphol, Amsterdam, The Netherlands. (Fred Vloot / RNW)

Cambridge Core

For further information about this journal please go to the journal website at:

[cambridge.org/aer](https://doi.org/10.1017/aer.2021.47)



MIX
Paper from
responsible sources
FSC® C007785

CAMBRIDGE
UNIVERSITY PRESS