AVIATION STUDIES INSTITUTE

SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN | Aviation Studies Institute

ASI
Aviation Studies Institute

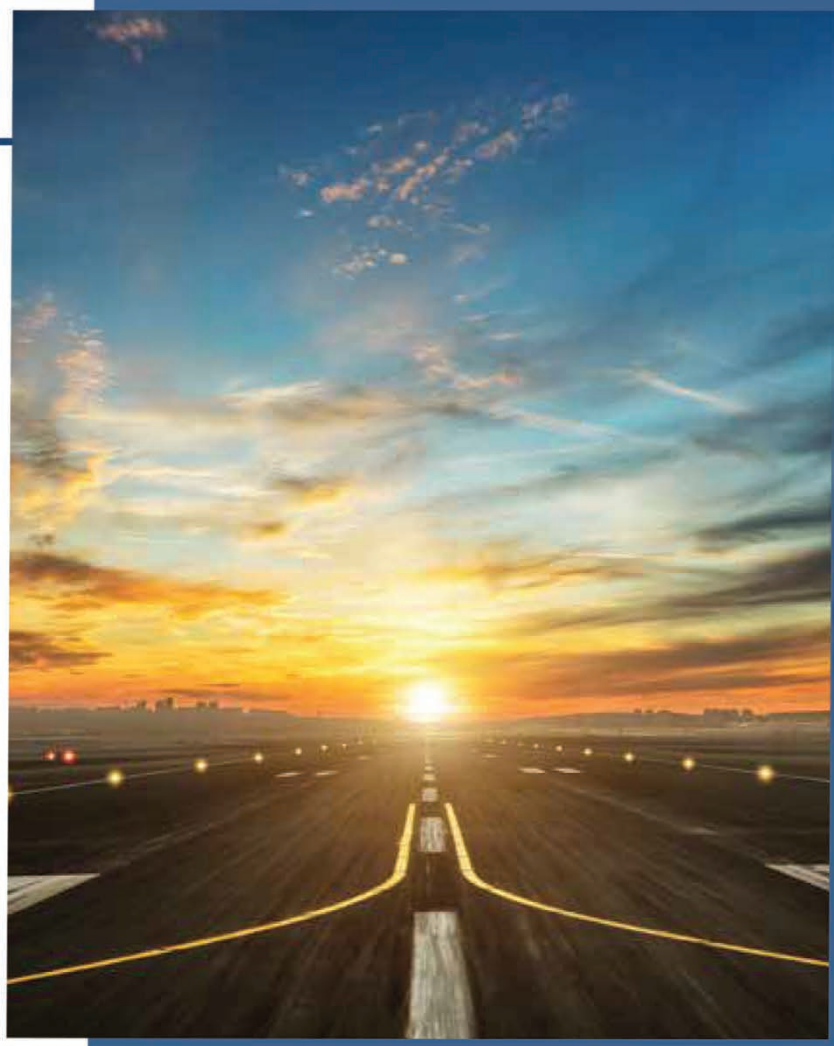
Introduction

The Aviation Studies Institute (ASI) in the Singapore University of Technology and Design (SUTD) is established jointly with the Civil Aviation Authority of Singapore. The ASI aims to be one of the world's leading centres of aviation policy research and thought leadership, dedicated to address the needs of aviation stakeholders and Air Traffic Management (ATM) policy-makers, for the advancement and development of aviation in the Asia-Pacific region.

Vision & Mission

The ASI's vision is to be a world-leading research centre in aviation and air traffic management, with a focus in the Asia-Pacific region centring on:

- Policy-relevant research in aviation and air traffic management;
- Understanding and articulating the aviation challenges of states like Singapore within the Asia-Pacific region;
- Providing new insights, perspectives and potential solutions - given the advances in technology and operation - to aviation challenges faced by the regional and international aviation community through credible and innovative policy-relevant research; and
- Nurturing a community of local and global scholars based in Singapore to promote sustainable aviation growth for the region, and engage in policy-relevant research for innovative solutions to the varied aviation challenges confronting Singapore and the region.



Research Capabilities

The ASI pursues research in the following three programme tracks:

Aviation International Policy

This research track focuses on the global civil aviation framework such as the Chicago Convention and the related Protocols and Conventions. It investigates the dynamics related to the cross-border nature of civil air traffic, use of airspace, sovereignty, provision of air traffic services, strategic affairs, security, political developments and international relations. The programme also looks at how regionalism and globalisation create new opportunities in the world of civil aviation.

Aviation and ATM Economics

This research track focuses on areas such as economic relations, competition, regulations, investment and finance, to spur greater efficiency through harmonisation of the aviation ecosystem. Specific topics may include ATM modernisation cost-benefit analysis, innovative financial models in capital investment to encourage ATM harmonisation, and pricing of air navigation services for efficient use of airspace.

Aviation Technology and Policy

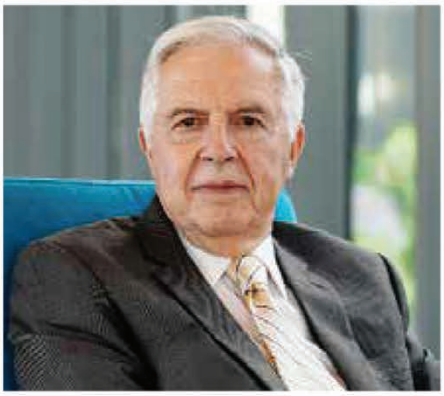
This research track focuses on aviation studies pertaining to technology and policy challenges spanning areas such as ATM infrastructural development, operations and systems development, data analytics, futures thinking and artificial intelligence.

Leadership Team

Peter Jackson

Institute Director

Professor and Head of Pillar, Engineering Systems and Design, SUTD



Amedeo Odoni

Distinguished Visiting Professor, SUTD

Professor Emeritus of Aeronautics and Astronautics, MIT

Professor Emeritus of Civil and Environmental Engineering, MIT

Costas Courcoubetis

Professor and Associate Head of Pillar, Engineering Systems and Design, SUTD

Potential Collaboration Opportunities

The ASI engages actively with government agencies, industry, practitioners, universities and research institutions to increase the relevance and impact of our research, and ensures that our research outcomes are useful, practical and influential in the aviation eco-system.

Research and Consultancy

The ASI welcomes partnerships to pursue aviation topics of mutual interest. These areas could include:

- Airport Connectivity
- Airfield Management and Economics
- Aviation Network Capacity
- Information Sharing in Aviation
- Emerging Policy Issues in Aviation

Education

- Student awards and internships
- Graduate studies at Masters and PhD levels
- Guest lecturers and seminars

Contact Us

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