

CURRENT APPROACHES TO AVIATION MANAGEMENT

Editors

Prof. Dr. Vildan DURMAZ

Assist. Prof. Dr. Server Sevil AKYUREK

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Editors: Prof. Dr. Vildan DURMAZ & Assist. Prof. Dr. Server Sevil AKYUREK

Eskişehir Technical University, Faculty of Aeronautics and Astronautics,
Aviation Management Department
vkorul@eskisehir.edu.tr
<https://orcid.org/0000-0003-3649-1780>

İstanbul Nişantaşı University EASSF, Aviation Management (English) Department
serversevil.akyurek@nisantasi.edu.tr
<https://orcid.org/0000-0001-6286-8399>

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Tel: 0 216 428 06 54 // 0530 076 94 90
mail: destek@artikellakademi.com
www.artikellakademi.com

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Editors

Prof. Dr. Vildan DURMAZ

Assist. Prof. Dr. Server Sevil AKYUREK

AUTHORS

Prof. Dr. Ebru YAZGAN

Prof. Dr. Vildan DURMAZ

Assoc. Prof. Dr. Elif KORUYUCU

Assist. Prof. Dr. Gulsum SANAL

Assist. Prof. Dr. Server Sevil AKYUREK

Ezgi Begum AKINCI

Guler ERYILMAZ

Hiranur AVSAR

Jamil KHATIB

Mizgin KIRKAGAC

Muhammad Ali ASIF

Onur ULKER

Onur YILMAZ

Sadık Ata YALÇINKAYA

Serkan KESKIN

artikol
akademi

CONTENTS

PREFACE.....7

CHAPTER 1

INVESTIGATION OF THE EFFECTS ON FLYING SAFETY
USING DIFFERENT COCKPIT DESIGNS BY ERGONOMIC FACTORS.....9

Serkan KESKIN & Prof. Dr. Vildan DURMAZ & Prof. Dr. Onur ULKER

CHAPTER 2

AVIATION PERSONNEL'S 5 BIG PERSONALITY TRAITS:
A SYSTEMATIC LITERATURE REVIEW.....41

Mizgin KIRKAGAC & Assist. Prof. Dr. Server Sevil AKYUREK

CHAPTER 3

CURRENT APPROACHES IN TALENT MANAGEMENT IN THE
AVIATION SECTOR: A SYSTEMATIC LITERATURE REVIEW75

Hiranur AVSAR & Assist. Prof. Dr. Server Sevil AKYUREK

4. BÖLÜM

AN ANALYSIS OF THE EFFECTS OF ARTIFICIAL INTELLIGENCE-BASED
LEARNING MANAGEMENT SYSTEMS ON PILOT TRAINING 103

**Guler ERYILMAZ & Assist. Prof. Dr. Gulsum SANAL &
Assist. Prof. Dr. Server Sevil AKYUREK**

CHAPTER 5

THE ROLE OF ARTIFICIAL INTELLIGENCE IN REDUCING
THE MAINTENANCE TIME OF UAVs.....121

Onur YILMAZ & Prof. Dr. Vildan DURMAZ & Prof. Dr. Ebru YAZGAN

CHAPTER 6

ENVIRONMENTAL SUSTAINABILITY IN THE
CIVIL AVIATION SECTOR.....143

Jamil KHATIB

CHAPTER 7

A SUSTAINABLE LEADERSHIP APPROACH IN AVIATION:
PLANNING SUSTAINABLE AVIATION FUEL (SAF) USAGE.....159

Muhammad Ali ASIF & Assist. Prof. Dr. Server Sevil AKYUREK

CHAPTER 8

INTEGRATION OF UNMANNED AERIAL VEHICLES INTO URBAN AIR
MOBILITY: TECHNOLOGICAL, SOCIAL AND
ENVIRONMENTAL DIMENSIONS.....183

Ezgi Begum AKINCI & Assoc. Prof. Dr. Elif KORUYUCU

CHAPTER 9

ERGONOMIC APPLICATIOIS IN AIRCRAFT ENGINE ASSEMBLY AND
MAINTENANCE OPERATIONS:
LITERATURE REVIEW AND EVALUATION.....205

**Sadık Ata YALCINKAYA & Assoc. Prof. Dr. Elif KORUYUCU &
Prof. Dr. Ebru YAZGAN**

PREFACE

It is with great pleasure that we present this book, which brings together a wide range of perspectives on some of the most significant challenges and opportunities in contemporary aviation. The chapters address topics such as flying safety, cockpit ergonomic design, pilot training, artificial intelligence (AI) and learning management systems, talent management of aviation personnel, the application of AI and Unmanned Aerial Vehicles in reducing maintenance time, environmental sustainability, sustainable fuel, and sustainable leadership.

With many years of experience in the aviation field, I have had the privilege of witnessing the industry's remarkable evolution. In preparing this book, I am especially grateful to have worked alongside my esteemed colleague Dr. Server Sevil AKYUREK, who has served as co-editor. Her insight, support, and dedication have been invaluable in shaping the vision and coherence of this volume.

We would also like to extend our heartfelt thanks to our students and fellow academics who have contributed to this work. Their research, creativity, and commitment are a testament to the power of collaboration between education and industry. Each contribution adds depth and practical relevance, reflecting both scholarly rigor and a shared passion for the future of aviation.

As the sector continues to face rapid technological change and an increasing call for sustainability, we hope that this book will serve as both a source of knowledge and inspiration. May it foster dialogue, encourage innovation, and support the growth of a safer and forward-looking aviation industry.

We dedicate this work to all who believe in the transformative power of education and its capacity to shape a safer, more sustainable, and innovative future for aviation.

Prof. Dr. Vildan DURMAZ
Assist. Prof. Dr. Server Sevil AKYUREK

Editors

2025

Index

- A**
- Adaptive learning 106, 107, 108, 111, 112, 116
 - Affective computing 116
 - Agreeableness 41, 42, 43, 44, 45, 47, 52, 55, 57, 58, 61, 63, 73, 74
 - Aircraft design 14, 20, 143, 186, 207
 - Air Force 10, 11, 17, 28, 65, 68, 69, 125, 130, 131, 141
 - Airline Operations and Efficiency 153
 - Airlines 10, 11, 15, 16, 30, 35, 49, 71, 76, 119, 151, 152, 159, 160, 161, 162, 163, 164, 169, 172, 173, 174, 175, 176, 178, 182, 215
 - Airport Carbon Accreditation 150
 - Air quality 23, 162, 170, 175, 193
 - Air traffic controllers 41, 42, 43, 48, 52, 63, 65, 66, 69, 83, 212
 - Airworthiness 12, 141, 177, 220
 - Alcohol-to-jet (ATJ) 170
 - Angles of attack 18, 19
 - Anthropometry 10, 14, 16, 17, 29, 35, 37, 38
 - Artificial intelligence 7, 60, 75, 76, 77, 78, 82, 83, 85, 86, 88, 89, 90, 91, 93, 94, 95, 96, 97, 98, 99, 101, 104, 105, 114, 122, 123, 132, 133, 134, 135, 136, 138, 139
 - Attraction-Selection-Attrition 60
 - Augmented reality 123, 136, 137, 138, 140
 - Authentication 26
 - Automation 32, 34, 78, 86, 91, 105, 114, 123, 133, 134, 135, 195
 - Autopilot systems 12
 - Aviation 7, 10, 11, 12, 13, 14, 15, 16, 17, 21, 26, 29, 30, 35, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 65, 67, 68, 69, 70, 71, 74, 75, 76, 77, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 97, 99, 100, 101, 104, 105, 107, 108, 109, 114, 115, 116, 117, 123, 135, 136, 137, 139, 143, 144, 145, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 168, 169, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 185, 186, 187, 189, 190, 191, 194, 197, 199, 201, 202, 205, 206, 207, 212, 213, 214, 218, 219, 220
 - Aviation education 97, 114, 117
 - Aviation emissions 148, 168
 - Aviation engines 206, 207, 218
 - Aviation industry 7, 10, 11, 14, 15, 16, 17, 30, 35, 47, 54, 61, 62, 70, 75, 76, 77, 81, 83, 84, 85, 86, 87, 90, 91, 92, 93, 95, 99, 101, 143, 144, 151, 153, 156, 157, 159, 160, 161, 162, 163, 169, 171, 174, 175, 176, 177, 178, 179, 180, 185, 187, 214
 - Aviation infrastructure 152
 - Aviation Management 2, 9, 41, 75, 103, 117, 121, 156, 159
 - Aviation personnel 7, 42, 50, 51, 52, 57, 62, 63, 76, 88, 164
 - Aviation safety 14, 16, 46, 100, 107, 172, 176, 177, 206, 213
 - Avigate 14
- B**
- Behavioral Changes 147
 - Big 5 factor model 42
 - Big data analytics 122, 133, 134, 135, 137, 139
 - Biofuels 145, 148, 157, 178
 - Biomechanical 14, 21, 217

Biometric 26, 36, 117, 118
 Biometric monitoring 117

C

Cabin crew members 41, 47, 49, 55, 74
 Cap-and-trade systems 147
 Carbon Capture and Storage 146
 Carbon emissions 149, 150, 151, 160, 161, 163, 170, 174, 194
 Carbon footprint 150, 152, 157, 198
 Carbon offset programs 151
 Career 46, 47, 54, 71, 78, 83, 92, 99, 194
 Clean Air Act 149
 Clean energy technologies 147
 Cockpit 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 25, 26, 27, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 113, 117, 213
 Cognitive 13, 14, 26, 43, 48, 49, 59, 60, 65, 67, 104, 105, 111, 112, 117, 118, 140, 206, 210, 220
 Cognitive skills 111, 112
 Collaboration 7, 42, 55, 57, 58, 60, 74, 105, 137, 144, 150, 164, 180, 186, 188, 189
 Communicate 56
 Compatibility 16, 101, 114, 180
 Competitive advantage 77, 79, 83, 97, 195
 Conscientiousness 41, 42, 43, 44, 45, 47, 52, 55, 58, 59, 61, 63, 70, 73, 74
 Coping style 51, 52, 73
 CORSIA 148, 149, 151, 154
 Cost reduction 104, 123, 176, 181
 Crew Resource Management 55, 64
 Cultural Factors 44
 Curriculum development 108

D

Data-Driven Assessment 106

Data-Driven Insights 111
 Data privacy 85, 112, 114, 115, 197, 198
 Data privacy and security 85
 Decision-making 10, 11, 13, 41, 42, 44, 46, 54, 58, 59, 60, 62, 64, 76, 78, 84, 88, 93, 104, 105, 106, 117, 193
 Decision-making under pressure 59, 105
 De-crewing 25
 Dependence on Fossil Fuels 152
 Digitale Plattform Unbemannte Luftfahrt 191, 200
 Digital transformation 82, 84
 Diplopia 23
 Direct air capture 148

E

EASA 14, 15, 36, 107, 108, 160, 162, 168, 179, 186, 188, 191, 193, 195, 196, 200
 EBT 105, 106, 116
 Electric aircraft 150, 186
 Electric Vehicles 145
 Emotional resilience 53
 Emotional stability 43, 44, 47, 48, 53, 54, 60, 63, 73, 74
 Employee experience 77, 86, 87
 Employee retention 78
 Energy Conservation 147
 Energy-efficient appliances 147
 Energy-Efficient Buildings 146
 Engine Maintenance 205
 Enhanced Oil Recovery 146
 Environmental sustainability 6, 143
 Environmental taxes 151
 Equipment 16, 19, 23, 78, 83, 84, 127, 132, 133, 134, 135, 137, 210, 214
 E-recruitment 78, 91
 Ergonomic 5, 6, 9, 205, 206, 208, 212
 Ethical challenges 199, 203
 Ethical Leadership 87
 Ethics 116, 198
 EU ETS 154
 Evaluation 13, 36, 37, 38, 63, 75, 76, 77, 79, 82, 99, 104, 213, 214, 218, 219
 Exclusion criteria 165

Extraversion 41, 42, 43, 44, 47, 54, 56, 60, 73

F

FAA 14, 15, 16, 36, 108, 149, 186, 191, 195, 196, 200, 201
 Family Factors 44
 Eatigue 15, 22, 23, 24, 26, 55, 60, 69, 71, 118, 126, 211, 212, 219
 Feedstock Availability 171
 Fischer-Tropsch Synthesis 170
 Flight Deck 15, 219
 Flight operations 11, 12, 14, 19, 22, 23, 27, 32, 34, 35, 54, 55, 85, 117, 141, 162
 Flight safety 9, 10, 11, 12, 13, 15, 17, 21, 23, 24, 25, 27, 29, 30, 32, 34, 35, 43, 47, 49, 52, 55, 58, 59, 61, 62, 63, 74, 84, 90, 94, 101, 135, 139, 142
 Flight Simulation 104

G

Genetic traits 46
 GHG 144, 149, 174
 Global airline tasks 49, 74
 Global Implementation 113
 Government Incentives 171

H

High Altitude Long Endurance (HALE) 129, 131
 High-Speed Rail 146
 Human factors 14, 17, 26, 116, 206, 211, 212, 213, 216, 218, 219, 220
 Human-in-the-loop 113, 116
 Human-machine interaction 9, 10, 11, 13, 17, 26, 27, 30, 35, 39
 Human resources management 78
 Hydrogen-based Fuels 170

Hydrogen-powered aircraft 152
 Hydro-processing 170

I

ICAO 14, 15, 37, 105, 107, 113, 116, 148, 149, 150, 151, 153, 160, 162, 177, 191, 195
 Identification 26, 79, 92, 99, 145, 202
 Importance 10, 12, 13, 17, 25, 26, 35, 52, 58, 59, 62, 65, 76, 78, 79, 83, 91, 92, 93, 97, 121, 160, 162, 164, 169, 175, 176, 178, 185, 195, 199, 206, 208, 210, 211, 212, 218
 Inclusion criteria 165
 Indicator 24
 Innovation 7, 57, 60, 78, 82, 97, 116, 124, 144, 147, 151, 152, 153, 160, 174, 177, 181, 195, 198, 199
 Innovative approaches 77, 82, 115
 Instructor Role Transformation 112
 Integration 62, 76, 83, 101, 103, 104, 105, 107, 108, 110, 113, 114, 115, 122, 123, 124, 125, 126, 133, 134, 135, 136, 138, 139, 154, 155, 171, 184, 185, 187, 191, 192, 195, 196, 197, 198, 200, 202, 203
 Intelligent Scenario Generation 106
 Interface 13, 15, 19, 22, 26, 27, 38, 39, 206, 207, 214
 International agreements 153, 154
 Introverted 43, 46, 56

J

Jet Fuel 148, 162, 164
 Job performance 41, 46, 49, 60, 61, 62, 64, 68, 78
 Job satisfaction 49, 69, 71, 86, 92

L

Land Use and Resource Efficiency 170

Lighting 22, 23, 24, 37, 146
 Limitation 63, 94, 175, 213
 Line Operations Safety Audits 55
 LMS 103, 104, 105, 106, 107, 109, 110, 111, 112, 113, 114, 115, 116

M

Machine learning 105, 116, 122, 132, 134, 137, 138, 139
 Maintenance man-hours 205
 Male 11, 20, 54, 65
 Market-Based Mechanisms 151
 Modal Shift to Mass Transit 146
 Myers-Briggs Type Indicator (MBTI) 60

N

Navigate 14
 NEO-PI-R 52, 66
 Neuroticism 45, 53, 66, 73

O

OCEAN 45, 46, 61, 69
 oligopolistic 10
 Openness to experience 41, 42, 43, 44, 45, 47, 52, 69, 73
 Operational efficiency 13, 59, 114, 122, 123, 134, 135, 138, 154, 192
 Organizational commitment 85, 99
 Oversight 110, 212

P

Paris Agreement 149
 Passenger 10, 23, 30, 42, 52, 55, 56, 62, 67, 85, 140, 184, 186, 196
 Performance 13, 14, 17, 18, 21, 22, 24, 25, 37, 41, 42, 44, 45, 46, 47, 49, 50, 52, 54, 55, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 73, 74, 75, 77, 78, 79, 80, 81, 82, 83, 84, 86, 87, 88, 89, 91, 97, 99, 101, 104, 106, 107, 111, 112, 113, 114, 115, 118, 119, 122, 124, 126, 127, 133, 134, 135, 136, 137, 138, 147, 160, 162, 165, 171, 173, 178, 206, 212, 213, 215, 218
 Performance evaluation 63, 75, 79, 99, 104
 Performance management 81, 82
 Personality 5, 41
 Personality traits 5, 41
 Pilot 7, 12, 14, 20, 21, 23, 24, 25, 26, 27, 28, 29, 30, 32, 35, 36, 37, 38, 48, 50, 52, 53, 54, 56, 57, 59, 61, 64, 65, 67, 68, 70, 71, 72, 73, 83, 97, 103, 104, 105, 106, 107, 108, 110, 112, 114, 115, 116, 117, 119, 123, 188, 213
 Pilot candidates 48, 56, 57, 104
 Pilot Competency 105
 Pilots 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 29, 30, 31, 32, 34, 35, 38, 39, 41, 42, 43, 47, 48, 50, 52, 53, 54, 55, 56, 57, 58, 59, 62, 63, 65, 67, 68, 69, 70, 71, 72, 73, 82, 83, 105, 107, 115, 136, 137, 162, 184, 190, 194, 212
 Pilot shortage 112
 Pilot training 7, 48, 65, 83, 97, 103, 104, 105, 106, 107, 108, 110, 112, 114, 115, 116
 Policy frameworks 154, 176
 Precision agriculture 141, 147
 Predictive analytics 80, 95, 117, 141
 Prisma Method 41, 50, 51, 70, 160, 161, 165
 Problem-solving ability 49, 73
 Production costs 148, 176, 182
 Production of SAF 154, 161, 163, 165, 169
 Productivity 23, 49, 62, 80, 85, 86, 88, 101, 195, 207, 210, 212, 213, 214
 Propulsion technologies 144
 Pros and cons 77
 Psychomotor 21
 Public transportation 146

R

R&D 133, 150, 194
 Real-Time Feedback and Performance 137
 Regulatory frameworks 113, 153, 176, 196
 Reliable 26, 57, 58, 123, 138
 Remote working 86, 91, 94
 Renewable Energy Sources 145
 Resistance to change 117
 Route optimization 153, 194
 Rudder 13, 118

S

Safety 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 21, 23, 24, 25, 26, 27, 29, 30, 32, 34, 35, 37, 42, 43, 46, 47, 49, 52, 54, 55, 58, 59, 60, 61, 62, 63, 64, 65, 74, 83, 84, 90, 94, 100, 101, 107, 110, 118, 124, 126, 127, 135, 138, 139, 140, 142, 160, 161, 163, 169, 172, 173, 174, 176, 177, 178, 184, 185, 188, 190, 191, 192, 199, 205, 206, 207, 208, 210, 212, 213, 216, 218, 219, 220
 SAF (Sustainable Aviation Fuel) 160, 161, 174
 Sampling 29
 Scenario-based learning 105
 Screen 24, 119
 Security 26, 36, 44, 48, 62, 65, 77, 81, 83, 85, 99, 104, 115, 117, 130, 178, 184, 187, 188, 189, 191, 195, 196, 197, 199, 206, 212
 Self-discipline 48, 60
 Situational awareness 12, 31, 33, 59, 105, 206, 212
 Skill Acquisition 111, 112
 Social Impact 184
 Software 19, 109, 126, 127, 194
 Sterile cockpit 26
 Sustainability 7, 87, 88, 93, 122, 143, 144, 145, 147, 148, 149, 150, 151, 153, 154, 155, 160, 163, 164, 174, 179, 180, 182, 187, 192, 200, 220
 Sustainability Reporting 151
 Sustainable 7, 81, 90, 123, 132, 143, 144, 148, 149, 151, 152, 153, 154, 155, 156, 159, 161, 163, 164, 165, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 184, 185, 189, 193, 194, 195, 197, 199, 202
 Sustainable growth plan 81
 Synthetic fuels 145, 170

T

Talent management 7, 75, 76, 77, 78, 79, 80, 81, 82, 83, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101
 Talent Management Models 80, 81
 Task-oriented 51, 52
 Teamwork 42, 44, 46, 55, 56, 58, 60, 63, 64, 65, 67, 72, 74, 113, 118, 137, 178
 Technological Limitations 152
 Tenerife accident 48
 Thermal dissipation 23
 Threat and Error Management 55, 64
 Turbulence 18, 19, 23, 55
 Turkish aviation sector 107

U

Unmanned Aerial Vehicle 45, 121, 122, 195
 Urban Air Mobility 184, 185, 186, 187, 189, 190, 191, 192, 193, 196, 197, 200, 201
 U-Space 188, 191, 196, 197

V

Vibration 23, 26, 126, 127, 210
 Virtual reality 108, 123

Wisconsin Card Sorting Test 49
Workforce planning 79, 95, 133
Workplace 13, 61, 68, 84, 94, 96, 135,
206, 212, 220

W

Warning 24, 25, 30, 32, 33, 38, 118
Warplane 24

6B model 76, 77, 81, 92, 93, 95, 101