



ISSA – 2016 Symposium Program

Parallel Sessions			
30 May 2016 (Monday)			
	GALAXY I	NEPTUN	MARS
14:30 – 16:30	Green Building and Airports – I Prof. Dr. Birol Kilkis	Fluid Mechanics and Aero dynamics –I Prof. Dr. Chingiz Hajiyev	Modelling and Simulation – I Prof. Dr. Roberto Sabatini
	43	19	24
	48	180	128
	71	17	139
	96	203	142
	187	210	170
	118	185	47
	160	217	204
		205	
		228	
17:00 – 19:00	Fuels, emissions Dr. Evanthia Nanaki	Fluid Mechanics and Aerodynamics – II Prof. Dr. Nadir Yilmaz	Modelling – Sustainability Manufacturing, Material Prof. Dr. Oleksandr Zaporozhets
	109	132	11
	14	133	37
	85	164	192
	92	173	200
	146	211	223
	122	162	
	181	61	
136			
31 May 2016 (Tuesday)			
	GALAXY I	NEPTUN	MARS
14:00 – 15:30	Energy and Exergy Application Prof. Dr. Arif Hepbasli	Fluid Mechanics and Aerodynamics – III Prof. Dr. John Ekaterinaris	Sustainable Energy, Hydrogen, Global Warming Assoc. Prof. Dr. C. Ozgur Colpan
	39	163	49
	56	178	184
	158	183	188
	201	124	206
	157	165	89
	230	144	

29 May 2016 (Sunday) (DAY 1)		
	15:00 – 17:00	Registration
30 May 2016 (Monday) (DAY 2)		
	09:00 – 10:00	Opening Session- GALAXY I
		<p>Opening Concert</p> <p>Burcu Aygider / Harp</p> <p>Duygu Kozak Şahiner / Flute</p> <p>Sevda Solak / Classical Fiddle</p> <p>Opening Speakers</p> <p>Prof. Dr. T. Hikmet Karakoc, ISSA 2016 Symposium Chair, Anadolu University</p> <p>Dr. Evanthia A. Nanaki ISSA 2017 Presentation</p> <p>Assoc. Prof. Dr. Cevat YAMAN, General Secretary of Gebze Technical University</p>
	10:00 – 11:00	<p>Keynote Talks- GALAXY I</p> <p>Chair: Prof. Dr. Maximillian Platzer</p> <p>Prof. Dr. Ibrahim Dincer. University of Ontario Institute of Technology.</p> <p style="text-align: center;">“A COMPARATIVE LIFE CYCLE ASSESSMENT OF ALTERNATIVE AVIATION FUELS”</p>

	<p>Prof.Dr.Henrik Lund, Aalborg University</p> <p>“SMART ENERGY SYSTEMS AND SUSTAINABLE AVIATION. THE SYNERGIES BETWEEN SUSTAINABLE AVIATION AND 100% RENEWABLE ENERGY SOLUTIONS”</p>
11:00 – 11:30	<i>Networking Break</i>
11:30 – 13:00	<p>Keynote Talks- GALAXY I</p> <p>Chair: Prof. Dr. Ibrahim Dincer</p>
	<p>Prof. Dr. Maximillian Platzer. Naval Postgraduate School.</p> <p>“A REVIEW OF PROGRESS TOWARD SUSTAINABLE AVIATION”</p> <p>Dr.Ian McAndrew. Embry-Riddle Aeronautical University.</p> <p>“RELIABILITY IN DESIGN IS WHERE WE START SUSTAINABILITY”</p> <p>Prof.Dr. John Ekaterinaris. Embry-Riddle Aeronautical University.</p> <p>“A HIGH ORDER DG METHOD FOR UNSTRUCTURED MESHES WITH H/P REFINEMENT AND SUB-CELL RESOLUTION FOR CFD APPLICATIONS IN AERODYNAMICS”</p>
13:00 – 14:30	<i>Networking Lunch</i>
14:30 – 16:30	Parallel Sessions

		<p>GALAXY 1 : Green Building and Airports – I Chair: Prof. Dr. Birol Kilkis</p>
		<p>1 - Ahmet KILIÇ, Adem BAL - Energy Saving with LED Lightning Application</p> <p>43 - Yang Geng, Juan Yu, Borong Lin, Bo Li, Shiman Sun. "IMPACT OF INDIVIDUAL IEQ FACTORS ON PASSENGERS' OVERALL SATISFACTION IN CHINESE AIRPORT TERMINAL BUILDINGS"</p> <p>48 - Chunhui Zhang, Borong Lin, Juan Yu. "THE ENERGY SAVING POTENTIAL OF TERMINAL BUILDINGS IN CHINA BASED ON THE INVESTIGATION OF ENERGY CONSUMPTION"</p> <p>71 - Şan KILKIŞ, Şiir KILKIŞ. "MULTI-CRITERIA ANALYSIS OF INTEGRATED AIRLINE – MAIN HUB AIRPORTS BASED ON A SUSTAINABLE AVIATION SECTOR INDEX"</p> <p>96 - Sergii I Shamanskyi, Sergii V Boichenko. "GREEN INTEGRATED SEWAGE TREATMENT TECHNOLOGY OF AIRPORT"</p> <p>187 - Ahadollah Azami, Harun Sevinc. "FEASIBILITY OF BUILDING INTEGRATED PHOTOVOLTAICS (BIPV) FOR ENERGETIC CONTRIBUTION IN TURKISH AIRPORTS OF SABIHA GOKCEN, ESENBOĞA AND ERCAN AIRPORT IN NORTH CYPRUS"</p> <p>118 - Nataša Tomić-Petrović. "ENVIRONMENTAL PROTECTION FROM NOISE – THE CASE OF SERBIA"</p> <p>160 - Ahadollah Azami. "ENERGY BASED ARCHITECTURE IN DESIGNING AIRPORT BUILDINGS"</p>
14:30 – 16:30		<p>Parallel Sessions</p>
		<p>NEPTUN Fluid Mechanics and Aerodynamics –I Chair: Prof. Dr. Chingiz Hajiyev</p>
		<p>19 - Bo Ouyang, Yufeng Yao, Abdessalem Bouferrouk. "DES PREDICTION OF NEAR STALL PERFORMANCE OF A HIGH LIFT AIRFOIL"</p>

	<p>180 - Jacob Sliwinski, Matthew Marino, Alessandro Gardi, Roberto Sabatini. "HYBRID PROPULSION INTEGRATION IN UNMANNED AIRCRAFT"</p> <p>17 - Jeongmin Ahn. "THERMAL TRANSPIRATION BASED MICRO PROPULSION"</p> <p>203 - Kasim Biber. "FLIGHT PERFORMANCE PREDICTIONS OF A PROPELLER-DRIVEN CARGO AIRPLANE"</p> <p>210 - Kasim Biber. CALCULATION OF PROPELLER PITCH STOPS FOR AIRPLANE PERFORMANCE</p> <p>185 - Abdessalem Bouferrouk. "DEVELOPMENT AND TESTING OF A VARIABLE CAMBER MORPHING WING MECHANISM"</p> <p>217 - Munir Suner, Ender Yalcin. AIR POLLUTION FROM SHIPS IN THE TEKIRDAG REGION: A CASE STUDY APPLICATION IN ASYAPORT</p> <p>228 – Munir Suner. THE AERODYNAMICS OF THE AIRFOILS WITH DIFFERENT PROFILES</p>
14:30 – 16:30	Parallel Sessions
	<p>MARS : Modelling and Simulation – I Chair: Prof. Dr. Roberto Sabatini</p>
	<p>13 - Eva Maleviti, Evangelos Stamoulis. "A BASELINE SCENARIO ANALYSIS TO EVALUATE ENVIRONMENTAL PERSPECTIVES IN EMPLOYEES OF AVIATION AND AEROSPACE INDUSTRIES"</p> <p>24 - Abd Rahim Abu Talib. "THE INFLUENCE OF PALM STEARIN ON POWDER INJECTION MOLDING OF INCONEL 718 FOR AEROSPACE APPLICATION"</p> <p>128 - Ismail Özen, Hasan Gedikli. "MODELING OF SOLID PARTICLE EROSION IN A METAL EROSION SHIELD USING CFD"</p> <p>139 - Suraj Suresh Bijjahalli, Subramanian Ramasamy, Roberto Sabatini. "A GNSS INTEGRITY AUGMENTATION SYSTEM FOR SUSTAINABLE AUTONOMOUS AIRSIDE OPERATIONS"</p>

	<p>142 - Benguhan Balıkcı. "COMPARISON OF PARALLEL AND SERPENTINE FLOW FIELD USING CFD BASED MODELLING"</p> <p>170 - Charkaz Aghayeva. "STOCHASTIC OPTIMAL CONTROL PROBLEM WITH RANDOM DELAY IN CONTROL"</p> <p>47 - Chingiz Hajiyev. Fault Tolerant Estimation Of UAV Dynamics Using Two-Stage Kalman Filter</p> <p>204 - Nadir Yilmaz and Castill Griego. "COMPUTATIONAL ANALYSIS AND EXPERIMENTAL VALIDATION OF UPWARD ALUMINUM ROCKET PROPELLANT COMBUSTION"</p> <p>205 - Nadir Yilmaz and Castill Griego. "COMPUTATIONAL SENSITIVITY ANALYSIS FOR DOWNWARD SOLID ROCKET PROPELLANT COMBUSTION"</p>
16:30 – 17:00	<p><i>Networking Break</i></p> <p><i>Special Demonstration:</i> <i>Ayse Elif Sanli, Goksel Gunlu, Eyüp Semsı Yılmaz, Suleyman Kursat Ozden, Merve Gordesel</i> Development Of Direct Borohydride Fuel Cell-Li Battery Hybride Prototype Electrical Motobike <i>Place: Poster area</i></p>
17:00 – 19:00	Parallel Sessions
	<p>GALAXY 1: Fuels, emissions Chair: Dr. Evanthia Nanaki</p>
	<p>109 - Dr.Ian McAndrew "ECONOMICAL IMPLICATIONS FOR EMISSIONS WITH LOW-COST CARRIERS USING VARIOUS FUELING STRATEGIES AND OPERATIONS"</p> <p>14 - John Francis Olsen. "ESTIMATIONS OF THE REDUCTION IN FUEL CONSUMPTION DUE TO HYBRIDIZATION OF THE POWERTRAIN OF A LIGHT AIRCRAFT"</p>

	<p>85 - Muhammad Hanafi Azami. "COMPARISON OF AIRCRAFT ENGINE PERFORMANCE USING ALTERNATIVE FUELS"</p> <p>92 - Anna Iakovlieva, Oksana Vovk, Sergii Boichenko, Kazimierz Lejda, Hubert Kuszewski. "WIDESPREAD INVESTIGATION OF PHYSICAL-CHEMICAL PROPERTIES OF JET FUELS BLENDED WITH RAPE OIL-DERIVED COMPONENTS"</p> <p>146 - Elif Nazik Atabay Durul. "BIOFUELS IN AVIATION"</p> <p>122 - Raziye Taşer. "THE DETERMINATION OF AIRCRAFT ENGINE FAILURE"</p> <p>181 - Kai Guan, Alessandro Gardi, Roberto Sabatini. ADVANCED TURBOFAN TECHNOLOGIES – OPPORTUNITIES AND CHALLENGES</p> <p>136 - Şükran Efe, M. Akif CEVİZ. COLD START EFFECT OF BIODIESEL ON DIESEL ENGINE</p>
17:00 – 19:00	Parallel Sessions
	<p>NEPTUN: Fluid Mechanics and Aerodynamics – II Chair: Prof. Dr. Nadir Yilmaz</p>
	<p>132 - Hacimurat DEMİR, Mustafa Serdar GENÇ, Halil Hakan AÇIKEL "TIME DEPENDENT LAMINAR SEPARATION BUBBLE FORMATION AND DEFORMATION OVER FLEXIBLE MEMBRANE WING"</p> <p>133 - Mustafa ÖZDEN, Mustafa Serdar GENÇ, Halil Hakan AÇIKEL "LAMINAR SEPARATION BUBBLE AND TIP VORTEX INTERACTION OVER RIGID WING WITH LOW ASPECT RATIO"</p> <p>164 - Mustafa ÖZDEN, Burçin ÇELİK, Halil Hakan AÇIKEL, Mustafa Serdar GENÇ, "EXPERIMENTAL AND NUMERICAL INVESTIGATIONS OF FLUID-STRUCTURE INTERACTION ON WIND TURBINE BLADE AT DIFFERENT REYNOLDS NUMBER"</p> <p>173 - Kasim Biber. COMPARISON OF WIND TUNNEL DATA WITH VORTEX-LATTICE BASED COMPUTATIONS FOR A PROPELLER-DRIVEN CARGO AIRPLANE</p>

	211 - Kasim Biber. AIRFOIL, WING AND CONFIGURATION DESIGN FOR AN UNMANNED AIR VEHICLE 162 - Mücahit ÇAĞDAŞ, Mustafa Serdar GENÇ, Hacımurat DEMİR, "OWL-INSPIRED WIND TURBINE BLADE" 61 - Tugrul Oktay, Firat Sal. "BLADE TAPER EFFECT ON CONTROL EFFORT AND PUMA SA 330 APPLICATION ON SIMULATION ENVIRONMENT"
17:00 – 19:00	Parallel Sessions
	MARS : Modelling – Sustainability Manufacturing, Material Chair: Prof.Dr. Oleksandr Zaporozhets
	11 - Alberto MAÑERO CONTRERAS, Chingiz Hajiyev. "INTEGRATED BAROMETRIC INERTIAL GPS ALTIMETER" 37 - Mustafa Soylak, Mahmut Çapkurt. "RIVET SELECTION FOR AIRCRAFT BULKHEADS WITH TAGUCHI METHOD" 192 - Ezgi Ceren Boz Noyan, Sena Cimilli Duru, Emel Onder Karaoğlu, Cevza Candan. "A NOVEL UNDERWEAR CLOTHING FOR AIR CREW" 200 - Claudio Scarponi. "GREEN COMPOSITES FOR AIRCRAFT INTERIOR PANELS" 223 - Emilia Suomalainen, Anne-Laure Verneil, Josep Montolio. "ENVIRONMENTAL ASSESSMENT IN THE ATAEGINA PROJECT PRACTICAL APPLICATION OF DATA SCIENCE TOOLS"
19:00 – 19:45	Mehter
19:45 – 20:30	Welcoming Cocktail
31 May 2016 (Tuesday) (DAY 3)	
09:00 – 18:00	Poster Session (Listed below)
09:00 – 10:40	Invited Speaker Talks- GALAXY 1 Chair: Prof. Dr. John Ekaterinaris

Prof. Dr. Ozer Arnas, US Military Academy West Point,

“THERMODYNAMIC EXPLANATION OF
SUSTAINABILITY”

**Prof. Dr. Olexander Zaporozhets. National Aviation
University,**

“NOISE MONITORING - MAIN INSTRUMENT
FOR NOISE NUISANCE
REDUCTION AROUND THE AIRPORTS
NOWDAYS.”

Prof. Dr. Roberto Sabatini. RMIT University.

“NEXT-GENERATION ATM SYSTEMS:
INCREASING SAFETY, EFFICIENCY
AND SUSTAINABILITY OF THE AVIATION
SECTOR”

**Dr. Evanthia A. Nanaki. Institute for Research &
Technology of Thessaly.**

“THE IMPACT OF GREEK ECONOMIC CRISIS
TO AIR PASSENGER
TRANSPORT.”

Prof. Dr. Birol Kılış. Baskent University.

“HOW WE CAN REALLY MAKE AIRPORTS
GREEN AND SUSTAINABLE”

	<p>Berrak Alkan Yılmaz. SSM Turkish Undersecretariat for Defense Industries</p> <p>“AN OVERVIEW OF EU AVIATION STRATEGY”</p>
10:40 – 11:00	<i>Networking Break</i>
11:00 – 12:00	<p>Invited Speaker Talks - GALAXY 1</p> <p>Chair: Dr. Ian McAndrew</p>
	<p>Prof. Dr. Nadir Yılmaz. New Mexico Institute of Mining and Technology</p> <p>“ESTABLISHING SAE INTERNATIONAL IN TURKEY AND ITS IMPLICATIONS IN THE MOBILITY INDUSTRY”</p> <p>Prof. Dr. Özer Arnas. United States Military Academy</p> <p>“THERMODYNAMIC EXPLANATION OF SUSTAINABILITY”</p> <p>Bedriye Cicioglu. Undersecretariat for Defence Industries / Aerospace Sector Manager / Industrialization Department</p> <p>“UNDERSECRETARIAT FOR DEFENCE INDUSTRIES POLICIES FOR A SUSTAINABLE DEFENCE AND AEROSPACE INDUSTRY”</p>
12:00 – 13:30	<i>Networking Lunch</i>
13:30 – 14:00	<p><i>Invited speaker Talk - GALAXY 1</i></p> <p>Chair: Prof. Dr. Henrik Lund</p>
	Prof. Dr. Arif Hepbaşlı. Yasar University

		“DEVELOPING EXERGY POLICY FOR EXERGETICALLY GREEN AVIATION: FORGET ENERGY POLICY, THINK EXERGY POLICY”
14:00 – 15:30		Parallel Sessions
		GALAXY 1: Energy and Exergy Application Chair: Prof. Dr. Arif Hepbasli
		39 - Rabah GOMRI. “CARBON DIOXIDE AS REFRIGERANT IN AIRCRAFT AIR CONDITIONING: STUDY OF EVAPORATION HEAT TRANSFER COEFFICIENT” 56 - Rabah GOMRI. “STUDY OF HEAT EXCHANGER OF GROUND SOURCE HEAT PUMPS FOR HEATING AND COOLING OF AIRPORTS” 158 - San Kilkis, Siir Kilkis, Birol I. Kilkis, Mehmet Tomsu. “ICE STORAGE IN AIRCRAFT A/C SYSTEMS ON THE TARMAC: ENERGY, EXERGY, AND ECONOMY PERSPECTIVES” 201 - Nasrin Akbarzadeh, Ahadollah Azami. “SUSTAINABLE AIRPORT DESIGN APPROACHING ENERGY EFFICIENCY IN TABRIZ, IRAN” 157 - Şiir Kılıç, Birol I. Kilkis. “ENERGY, ENVIRONMENT, AND ECONOMY NEXUS FOR NEAR-ZERO EXERGY AIRPORTS (nZEXAP)” 230 - Serpil Yılmaz , İsmail Ekmekçi, ENERGY ESTIMATION TOOLS FOR ISTANBUL BY TYPICAL METEOROLOGICAL YEAR DATA
14:00 – 15:30		Parallel Sessions
		NEPTUN : Fluid Mechanics and Aerodynamics – III Chair: Dr. John Olsen
		163 - Tuna Murat BODUR, Mustafa Serdar GENÇ, Kemal KOCA. “ELIMINATION OF TIP VORTEX USING AIR HOLES AT WIND TURBINE BLADE” 178 - Yixiang Lim, Alessandro Gardi, Roberto Sabatini. “QUANTIFYING THE RADIATIVE IMPACT OF CONTRAILS FOR CRUISE TRAJECTORY PLANNING”

	<p>183 - Alessandro Gardi, Roberto Sabatini. "OUTLINE OF MULTI-OBJECTIVE FLIGHT TRAJECTORY OPTIMISATION TECHNIQUES FOR ENVIRONMENTAL IMPACT ESTIMATION AND MITIGATION"</p> <p>124 - Hansjochen Ehmer. "THE HANDLING OF AIRCRAFT NOISE AROUND AIRPORTS – IS IT A PROBLEM OF SUSTAINABLE AVIATION?"</p> <p>165 - Gamze GENÇ, Ceren Yıldırım, Mustafa Serdar Genç, Mustafa Soylak. "EFFECTS OF ICE ACCRETION ON THE WIND TURBINE AIRFOIL"</p> <p>144 - Kemal Koca, Mustafa Serdar Genç, Halil Hakan AÇIKEL "ROUGHNESS EFFECT ON FLOW OVER WIND TURBINE AIRFOIL"</p>
14:00 – 15:30	Parallel Sessions
	<p>MARS: Sustainable Energy, Hydrogen, Global Warming Chair: Assoc. Prof. Dr. C. Ozgur Colpan</p>
	<p>49 - Ayse Elif Sanli, Göksel Günlü, Merve Gördesel, Eyüp Şemsi Yılmaz, Süleyman Küşat Özden. "DEVELOPMENT OF 100 W DIRECT BOROHYDRIDE/PEROXIDE FUEL CELL STACK"</p> <p>184 - UFUK KAYA, Zehra URAL BAYRAK, Eyyup OKSUZTEPE. "THE DESIGN OF FUEL CELL/BATTERY HYBRID SYSTEM FOR UNMANNED AERIAL VEHICLE DRIVED BY PERMANENT MAGNET SYNCHRONOUS MOTOR"</p> <p>188 - Eren Baharozu, Gurkan Soykan, M. Baris Ozerdem. "COMPARISON OF HYBRID AIRCRAFTS WITH TRADITIONAL AIRCRAFTS"</p> <p>206 - Stephen M. Davis, Nadir Yilmaz. "GREEN HYPERGOLICS FOR SPACE PROPULSION: SILANE/ NITROUS OXIDE PROPELLANTS"</p> <p>89 - Kateryna Synylo, Ralf Kurtenbach, Peter Wiesen, Oleksandr Zaporozhets . "COMPARISON OF MEASURED AND MODELLED NOX CONCENTRATION</p>

		IN PLUME FROM AIRCRAFT ENGINE FOR TAKE-OFF CONDITIONS”
	15:30 – 16:00	<i>Networking Break</i>
	16:00 – 18:00	Panel Session: Sustainable Aviation and Applications Panel Chair: Prof. Dr. Ibrahim Dincer
		Mr. Akin Arkat, TAV Airports Prof. Dr. Ian Robert McAndrew, Embry-Riddle Aeronautical University Prof. Dr. John Ekaterinaris, Embry-Riddle Aeronautical University Dr. John Olsen, the University of New South Wales Prof. Dr. Roberto Sabatini, RMIT University
	19:00	BANQUET
	20:00	Classic Turkish Music Concert
	21:00	SARES Awards Ceremony
1 June 2016 (Wednesday) (DAY 4)		
	09:00 – 12:00	Technical Visit to TAV Airport Energy Saving with LED Lightning Application
<u>Poster Session – Posters</u> 5 – Ismael Cremer, Stephen Rice, Alexander Michaels, Amandine Coudert, Burgess Kalyaniwalla, Sherisse Pierre, Genevieve Beaulieu, Paul Nelson,		

Lakindu Irugalbandara, Thilip Ravindran, Wesley Underwood, Korhan Oyman. MEASURING AIRPORT SUSTAINABILITY PRACTICES THROUGH CONSUMERS

6 – Ismael Cremer, Stephen Rice, Alexander Michaels, Amandine Coudert, Burgess Kalyaniwalla, Sherisse Pierre, genevieve Beaulieu, Lakindu Irugalbandara, Thilip Ravindran, Wesley Underwood, Korhan Oyman. THE AVIATION SUSTAINABLE PRACTICES ATTITUDE SCALE (ASPA): THE INITIAL PROCESS

9 - Murat Pasa UYSAL, Mehmet Ziya SÖĞÜT. "A SYSTEMATIC MAPPING STUDY ON AVIATION INFORMATION SYSTEMS AND SUSTAINABILITY"

10 - Murat Pasa UYSAL, Mehmet Ziya SÖĞÜT. "TOWARDS AN ARCHITECTURE FOR ENERGY MANAGEMENT INFORMATION SYSTEMS AND SUSTAINABLE AIRPORTS"

15 - Tamer Savas, Özlem Sahin Meric. THE ASSESSMENT OF THE RNP AR APCH PROCEDURES' BENEFITS FOR SAFETY AND CFIT

18 - Derya Unlu, Nilufer Durmaz Hilmioglu. PRODUCTION OF POTENTIAL RENEWABLE FUEL BIOADDITIVE ETHYL LEVULINATE FOR THE TRANSPORT SECTORS

22 - Oguzhan Demir, Kursad Melih Guleren. AERODYNAMIC ANALYSIS OF A JET-DRIVEN FIGHTER AIRCRAFT

32 - Kutay Cetin, Kursad Melih Guleren. "A SYSTEM ENGINEERING METHODOLOGY APPLIED TO THE DESIGN OF A BUSINESS JET AIRCRAFT"

33 - Rico Morasata, Kursad Melih Guleren. "THE SLIPSTREAM EFFECT OVER A VTOL MILITARY AIRCRAFT BY CFD ANALYSIS"

35 - Issaadi Wassila. CONVENTIONAL MPPT AND A CONTROL SYSTEM PHOTOVOLTAIC BY FUZZY LOGIC

38 - Rico Morasata, Kursad Melih Guleren. "DESIGN OF A FOUR-SEAT CIVIL TRAINER AIRCRAFT"

58 - Tugrul Oktay, Metin Uzun. AERODYNAMIC TAILCONE SHAPE OPTIMIZATION FOR AUTONOMOUS PERFORMANCE MAXIMIZATION OF MORPHING UNMANNED AERIAL VEHICLE (UAV)

64 - Seyhun Durmuş, T. Hikmet Karakoç. NUMERICAL COMPARISON OF SMOOTH TWO PASS, SQUARE AND TRAPEZOIDAL TURBINE BLADE COOLING CHANNELS

- 79 - Brahim NECIB. STRAIN ENERGY DEFORMATION ANALYSIS OF THE SHAPE MEMORY ALLOY UNDER EXTERNAL MECHANICAL BEHAVIOUR AND THEIR APPLICATION IN NEW TECHNOLOGIES
- 80 - Osman Mirza Demircan, Kursad Melih Guleren. AERODYNAMIC COMPUTATIONAL FLUID DYNAMICS ANALYSIS OF A MEDIUM ALTITUDE LONG ENDURANCE UNMANNED AERIAL VEHICLE
- 84 - Nevzet Kaya. ABOUT THE STRUCTURE OF THE SPACE
- 86 - Suheyla Yerel Kandemir, Muhammed Genç, M. Özgür Yaylı, A. Erdem Çerçevik. INVESTIGATION OF SOIL IMPROVEMENT COSTS BY THE AIRPORT
- 87 - Nazım İMAL, Suat Zafer MERİÇELLİ. IN AIRCRAFTS USING PELTIER STRUCTURES PRODUCING ELECTRICAL ENERGY
- 91 - Oleksandr Gryshchenko, Sergii Boichenko. BENEFITS OF CAMELINA SATIVA AS THE SOURCE OF BIOCOMPONENTS USED FOR MODIFICATION OF AVIATION FUEL CONTENT
- 99 - Olesya Kondakova, SERGII BOICHENKO. RESEARCH ANTIKNOCK RATING OF NEW COMPOSITION FOR AVIATION GASOLINE
- 101 - Hasan BOZKURT, Ali Erdem ÇERÇEVİK. "EVALUATION OF YENISEHIR BURSA AIRPORT IN TERMS OF RUNWAY PAVEMENT DESIGN, CAPACITY, AND TRAFFIC DEMAND"
- 108 - Isil Yazar, Emre Kiyak, Fikret Caliskan, Tahir Hikmet Karakoc. SPEED CONTROLLER DESIGN BY USING MODIFIED PID FOR A SMALL SCALE TURBOJET ENGINE
- 114 - Tamer Savas, Orhan Ertuğrul Guclu. ATC-PILOT RADIO COMMUNICATION PHRASEOLOGY CONFUSION
- 115 - Gokhan Gol, Emre Kiyak, Hikmet Karakoc. OBSTACLE DETECTION AND COLLISION AVOIDANCE AUTONOMOUS INDOOR QUADROPTER
- 121 - Derya Unlu. INVESTIGATION OF ALTERNATIVE BIOFUELS FOR AVIATION
- 134 - Onder Turan, Hakan Aydin. NUMERICAL CALCULATION OF ENERGY AND EXERGY FLOWS OF A TURBOSHAFT ENGINE FOR HELICOPTER APPLICATIONS
- 138 - Tamer Savas. THE ANALYSIS OF FLIGHT SIMULATOR TRAINING DEVICE (FSTD) USAGE FOR PILOT TRAINING IN TURKEY
- 141 - Mehmet Fatih Orhan. ANALYSIS AND MODELING OF A MEMBRANE ELECTRODE ASSEMBLY IN A PROTON EXCHANGE MEMBRANE FUEL CELL
- 154 - Eralp Şener, Gürhan Ertaşgın. A GRID CONNECTED SINGLE-PHASE PHOTOVOLTAIC MICROINVERTER BASED ON SUPER-LIFT LUO CONVERTER

156 - Nevzet Kaya. EXACT GEOPOTENTIAL EXERGY
166 - Ali Erdem ÇERÇEVİK, Süheyla Yerel Kandemir, Mustafa Özgür Yaylı.
INVESTIGATION OF THE USE OF BILECIK BEIGE MARBLE IN AIRPORTS
168 - Ismael Cremer, Tariq Buhilaigah. A DECISION TOOL FOR SOLAR ENERGY
EFFICIENCY ASSESSMENT IN SMALL AIRPORTS
169 - Ali Erdem Çerçevik, Süheyla Yerel Kandemir, Mustafa Özgür Yaylı.
INVESTIGATION OF USING LEED CERTIFICATION FOR AIRPORT
171 - Ismael Cremer, Alexander Michaels, Robert Atilho, Tariq Buhilaigah.
UTILIZING A GEO-LOCATION APPLICATION TO INCREASE COMMUNITY USAGE
OF MASS-TRANSIT OPTIONS TO A SMALL LOCAL AIRPORT
175 - Dilek Özsoy, Ilkay Orhan. THE FACTORS THAT AFFECT CABIN CREW'S
TEAMWORK AND JOB SATISFACTION
182 - Hariprasanth Ganesamoorthy, Alessandro Gardi, Roberto Sabatini.
ENVIRONMENTAL IMPACT ASSESSMENT OF TURBOFAN GASEOUS EMISSIONS
FOR CURRENT AND NEXT GENERATION AIRLINERS
186 - Raziye Taşer. THE ANALYSIS OF FUEL DILUTION IN ENGINE OIL
193 - Ahadollah Azami. SOLAR ENERGY POTENTIAL ASSESSMENT ON ROOFTOP
AIRPORTS OF TURKEY
195 - Rachid Belaidi, Ali Haddouche. IMPROVEMENT OF MAXIMUM POWER
POINT TRACKING USING ARTIFICIAL INTELLIGENT CONTROL FOR
PHOTOVOLTAIC SYSTEMS: COMPARATIVE STUDY.
202 - Ozlem Sahin, Oznur Usanmaz. PATH TERMINATORS CODING AND
CHARTING
207 - Akhlitdin Nizamitdinov, Yasin Sohret, Aladdin Shamilov, T. Hikmet
Karakoc, STATISTICAL APPROACH TO THE EXTEND EXHAUST EMISSIONS DATA
OF A MILITARY AIRCRAFT ENGINE
220 - M. Ziya Sogut, Süleyman Özkaynak. ENERGETIC AND EXERGETIC
PERFORMANCE OF SEAPLANE ENGINE WITH DIFFERENT TEMPERATURE IN
SAME ALTITUDE
221 - Süleyman Kağan Ayaz, Önder Altuntaş, Emin Açikkalp, T.Hikmet Karakoç.
EXERGY AND ADVANCED EXERGY ANALYSIS OF AN AIR CYCLE MACHINE
222 - Yılanli Muhammet, Altuntaş Önder, Açikkalp Emin, Karakoç T.Hikmet.
AIRCRAFT FUEL SYSTEM ENERGY AND EXERGY ANALYSIS UNDER HOT DAY
CONDITION

- 224 - Görkem Öztarlık, Sitki Uslu, Laurent Selle, Thierry Poinsto. EFFECT OF HYDROGEN ENRICHMENT ON COMBUSTION PROPERTIES OF METHANE/AIR FLAMES
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