



SELÇUK UNIVERSITY
SCHOOL OF CIVIL AVIATION

ICAA'24

INTERNATIONAL CONFERENCE OF
AERONAUTICS AND ASTRONAUTICS
November 6-8, 2024 Konya, Türkiye



SCHEDULE OF INTERNATIONAL CONFERENCE OF AERONAUTICS AND ASTRONAUTICS (6-8 NOVEMBER 2024)

06.11.2024-WEDNESDAY (IN-PERSON)

KEYNOTE SPEAKERS		
10:00-12:00	DEPUTY DIRECTOR GENERAL AT GENERAL DIRECTORATE OF CIVIL AVIATION	Feyzullah ÇINAR
	OTONOM HAVA ARAÇLARI: GELECEK, TEKNOLOJİ VE SÜRDÜRÜLEBİLİRLİK	Dr. Hakan GÜRKAN

SESSION 1 (HALL-A) (13:30-15:00) 06.11.2024-WEDNESDAY (IN-PERSON)

Chairman	Mesut UYANER	
13:30-13:45	UNMANNED AERIAL VEHICLE DESIGN WITH VARIABLE DIHEDRAL STRUCTURE	Fatih Kutay AKPINAR, Uğur ÖZDEMİR
13:45-14:00	NUMERICAL STUDY ON FLOW CHARACTERISTICS FOR A NACA 0012 AIRFOIL	İlker GÖKTEPELİ
14:00-14:15	ANALYSIS OF A UAV PROPELLER PRODUCED BY VARIOUS MATERIALS	Süreyya Sevinç VAROL, Mehmet Emin ÇETİN, Mesut UYANER, Bilge ALBAYRAK ÇEPER
14:15-14:30	HETEROGENEOUS CATALYSTS USED IN BIODIESEL PRODUCTION	Berat KÖKYAY, Ayhan UYAROĞLU
14:30-14:45	DESIGN OF HIGH-SPEED FIXED WING UNMANNED AERIAL VEHICLE	Merve KINACI, Uğur ÖZDEMİR



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SESSION 1 (HALL-B) (13:30-15:00) 06.11.2024-WEDNESDAY (IN-PERSON)

Chairman	Cihan BAYINDIRLI	
13:30-13:45	COMPARATIVE ANALYSIS OF CIRCULAR AND RECTANGULAR S-DUCTS: OPTIMISING AERODYNAMIC PERFORMANCE AND FLOW EFFICIENCY USING CFD MODELLING	Mehmet Turan EKİNCİ, Mahmut Sami BÜKER
13:45-14:00	EXAMINING THE AERODYNAMIC PROPERTIES OF PEREGRINE FALCON BIRD DURING GLIDING AND DIVING WITH THE CFD METHOD AND THEIR USAGE IN AIRCRAFT	Cihan BAYINDIRLI, Ali OCAK
14:00-14:15	SUPERSONIC WIND TUNNEL FLOW MODEL GENERATION AND PID CONTROL IMPLEMENTATION	Kıymet Nihal Nur TAŞ, Sultan DİNÇSOY, Levent CAN, Berna TUĞBAY, Hasan TABANLI, Muhammet ÖZTÜRK
14:15-14:30	PERFORMANCE COMPARISON BETWEEN UNIQUE AEROSPIKE NOZZLE DESIGN AND CONVENTIONAL DE LAVAL NOZZLE: NUMERICAL AND EXPERIMENTAL STUDY	Altan Berdan MİNAZ, Ahmet MERAM
14:30-14:45	NOISE-GAN: AEROACOUSTICS AND AERODYNAMICS OPTIMIZATION TOOL	Serhad AYTAÇ, Baha ZAFER

SESSION 2 (HALL-A) (15:30-17:00) 06.11.2024-WEDNESDAY (IN-PERSON)

Chairman	Harun KARAKAVUZ	
15:30-15:45	WIND DISTRIBUTION ON AIRCRAFT PERFORMANCE DURING THE CRUISE PHASE OF FLIGHTS BETWEEN ISTANBUL AND PARIS	Ramazan Kürşat ÇEÇEN
15:45-16:00	HAVACILIK ALANINDA ÇEVREYE DUYARLI HİZMET ÜRETİMİ: TÜRKİYE'DE YAPILMIŞ AKADEMİK ÇALIŞMALAR	İlkay YILMAZ, Guzide KARAKUŞ
16:00-16:15	CLEAR COMMUNICATION, SAFE SKIES: ADDRESSING THE KEY COMPETENCIES IN AVIATION ENGLISH	Petek ŞİRİN
16:15-16:30	SEASONAL IMPACTS ON AIR TRAFFIC OPERATIONS: A COMPARATIVE ANALYSIS OF SUMMER AND WINTER FLIGHT PERFORMANCE	Ramazan Kürşat ÇEÇEN
16:30-16:45	OTONOM SİSTEMLER VE ULUSLARARASI HUKUK	Servet ÇINAR, Rüştü GÜNTÜRKÜN



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SESSION 2 (HALL-B) (15:30-17:00) 06.11.2024-WEDNESDAY (IN-PERSON)

Chairman	Elif EREN GÜLTEKİN	
15:30-15:45	LOW VELOCITY IMPACT RESPONSE OF CFRP AND AL2024-T3 HELICOPTER BLADE	Sakine KURTAR, Gamze YAMAN, Dilara Nur BEKTAŞ, Seda Nur ÖZSUNAR, Mesut UYANER
15:45-16:00	BUCKLING OF LATTICE-STIFFENED RECTANGULAR PLATES USING THE MODIFIED EXTENDED KANTOROVICH METHOD	Mohammad RAHMANİAN
16:00-16:15	FREE AND FORCED VIBRATION ANALYSIS OF FUNCTIONALLY GRADED RECTANGULAR PLATES WITH VARIOUS BOUNDARY CONDITIONS	Mohammad RAHMANİAN, Nadia MOTAZEDİAN, Mohammad Amin MONTASERİ
16:15-16:30	COATING METHOD OF THE MODEL PRODUCED BY RAPID PROTOTYPING METHOD FOR SUPERSONIC WIND TUNNEL EXPERIMENT	Cihad KÖSE, Ahmet Selim DURNA, Lütfü NAMLI
16:30-16:45	AEROELASTIC ASSESSMENT OF ICED TURBINE BLADE	Mesut UYANER, Özcan YIRTICI, Abdulkadir CİMŞİT

SESSION 3 (HALL-A) (15:30-17:00) 06.11.2024-WEDNESDAY (IN-PERSON)

Chairman	Nilüfer CANÖZ	
17:00-17:15	EVALUATING THE USABILITY OF UAMS: LEADING BUSINESS EXAMPLES	Harun KARAKAVUZ
17:15-17:30	HAVACILIKTA YAPAY ZEKA ARAŞTIRMALARININ BİBLİYOMETRİK ANALİZİ	Nilüfer CANÖZ, Tuğba DAMGACI
17:30-17:45	EXPERIMENTAL INVESTIGATION OF AERODYNAMIC PROPERTIES OF NACA 4412 AIRFOIL	Mehmet Görkem EFE, İlker ÖRS
17:45-18:00	ORGANIZATIONAL COMMITMENT AND JOB SATISFACTION IN GROUND HANDLING COMPANIES' EMPLOYEES	Mehmet Akif ÇİNİ
18:00-18:15	HAVACILIK GÜVENLİĞİNDE YAPAY ZEKÂ İLE PROFİL ÇIKARMA: ULUSLARARASI DÜZENLEMELER VE GDPR UYUMLULUĞU	Ahmet ATEŞ
18:15-18:30	USE OF METAHEURISTIC ALGORITHMS IN PATH OPTIMIZATION OF UNMANNED AERIAL VEHICLES	Muammer KALKAN, Tahir SAĞ



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07.11.2024-THURSDAY (VIRTUAL)

SESSION 4 (HALL-A) (09:30-10:45) 07.11.2024-THURSDAY (VIRTUAL)

Chairman	Aziz Hakan ALTUN	
09:30-09:45	ASSESSING HYDROGEN AS AN ECO-FRIENDLY ALTERNATIVE FUEL IN AIRCRAFT ENGINE PERFORMANCE	Halil Can ÇINKIR, Mahmut Sami BÜKER
09:45-10:00	THE AERODYNAMIC EFFECTS OF SINGLE-WAVELENGTH LEADING EDGE SERRATIONS	Pelin Beyza SAĞLAM, Duygu ERDEM, Hasan TABANLI
10:00-10:15	NUMERICAL PREDICTIONS OF ROTOR NOISE OF HART-II HELICOPTER MODEL WITH ALTERNATIVE TIP SHAPE IN FORWARD FLIGHT	Tuğrul Teoman ÖZTÜRK,
10:15-10:30	VACUUM ASSISTED RESIN TRANSFER MOLDING METHOD IN PART PRODUCTION AND ESTIMATION OF STANDARD PRODUCTION TIMES	Recep DOĞRU, Süleyman NEŞELİ
10:30-10:45	BIRD-INSPIRED SWEEPING WING DESIGN AND TESTS	Mehmet KAYGISIZ, Ümit ÇELİK, Harun GÜREVİN

SESSION 4 (HALL-B) (09:30-10:45) 07.11.2024-THURSDAY (VIRTUAL)

Chairman	Ahmet ATEŞ	
09:30-09:45	THE ROLE OF AIR TRANSPORTATION BETWEEN AIR CARGO AND CLIMATE AND ENERGY	Ümit ÇELEBİ
09:45-10:00	DETERMINATION OF THE IMPORTANCE RANKING OF FLIGHT CHARACTERISTICS IN PASSENGERS' FLIGHT CHOICE	Büşra ÖNLER ÇİĞDEM, Mustafa Bilgehan KUTLU
10:00-10:15	LOW-COST AIRLINES-REGIONAL AIRPORT RELATIONSHIP FROM RESOURCE DEPENDENCY THEORY PERSPECTIVES	Hilal Tuğçe LAPÇIN
10:15-10:30	HAVACILIK SEKTÖRÜNDE A-CDM MODELİNİN ÖNEMİ	Battal TUNA, Harun YILMAZ
10:30-10:45	APPROACHES TO INTERNATIONAL AIR TRAFFIC CONTROL TRAINING: DIFFERENCES AND COMMONALITIES BETWEEN THE USA AND TURKEY	Fulya Aybek ÇETEK



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SESSION 5 (HALL-A) (11:00-12:15) 07.11.2024-THURSDAY (VIRTUAL)

Chairman	Mehmet YERLİKAYA	
11:00-11:15	NON DESTRUCTIVE INSPECTION AND DEFECT CHARACTERIZATION FOR THICK THERMOPLASTIC COMPOSITES	İrem Şevval GÜNDÜZ, Mehmet Fatih ÖKTEM, Berkin ÇETİNKAYA, Uğur Görkem ÇAKICI
11:15-11:30	INSPECTION OF AIRCRAFT PARTS WITH EDDY CURRENT METHOD	Büşra KARANFİLOĞLU, Elif EREN GÜLTEKİN
11:30-11:45	İNSANSIZ HAVA ARACI SİSTEMLERİ İÇİN ROBOT İŞLETİM SİSTEMİ (ROS) KULLANAN GNSS VERİ BENZETİMİ	Muhammed OKUR, Ufuk SAKARYA
11:45-12:00	LOW SPEED IMPACT BEHAVIOR IN AIRCRAFT AIRFRAME REGIONS WITH DIFFERENT THICKNESSES	Mustafa TAŞYÜREK
12:00-12:15	IMPLEMENTING QUATERNION-BASED NONLINEAR CONTROL FOR QUADROTORS IN THE PX4 AUTOPILOT FRAMEWORK	Utku YÜCEL, Ozan TEKİNALP
12:15-12:30	INVESTIGATION OF CUBIC WING LOADING PARAMETER ON NARROW AND WIDE BODY AIRCRAFT	Seyhun DURMUŞ

SESSION 5 (HALL-B) (11:00-12:15) 07.11.2024-THURSDAY (VIRTUAL)

Chairman	Soner ŞEN	
11:00-11:15	PARAMETRIC STUDY ON EVALUATING OF THREE SPOOL TURBOPROP ENGINE AT DIFFERENT FLIGHT CONDITIONS	Onur YÜKSEL, Hakan AYGÜN
11:15-11:30	THERMAL EFFICIENCY ASSESSMENT OF A RAM-JET ENGINE UNDER HIGH MACH NUMBERS	Soner ŞEN
11:30-11:45	COLLISION AVOIDANCE FOR FIXED WING AIRCRAFT VIA CONTROL BARRIER FUNCTIONS	H. Nur TOPRAK, Emre KOYUNCU
11:45-12:00	EXPERIMENTAL INVESTIGATION OF THE EFFECT OF THE THICKNESS ON FLOW OVER HIGH-CAMBERED AIRFOILS AT LOW REYNOLDS NUMBERS	Muammer AYVAZOĞLU, Zafer İPEKLİ, M. Yasemin BAŞTUĞ, Sinem KESKİN, H. H. AÇIKEL, M. S. GENÇ
12:00-12:15	NUMERICAL INVESTIGATION OF THE EFFECT OF THE THICKNESS ON FLOW OVER HIGH-CAMBERED AIRFOILS AT LOW REYNOLDS NUMBERS	E. Anıl SEZER, H. Hakan AÇIKEL, Muhammed HATEM, Merve AKIN, İlyas KARASU, M. Serdar GENÇ
12:15-12:30	INVESTIGATION OF RPM EFFECTS ON AN AXISYMMETRIC SUPERSONIC AIR INLET USING CFD SIMULATIONS	Kerem ALGÜL, Melike KÜRKCÜ, Serkan AKÇINAR, Ergun Umur KILINÇ, Hasan TABANLI



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SESSION 6 (HALL-A) (13:30-14:45) 07.11.2024-THURSDAY (VIRTUAL)

Chairman	Mehmet Akif ÇİNİ	
13:30-13:45	DİYARBAKIR HAVALİMANINDAKİ UÇAKLARIN TAKSİ SÜRESİNDEKİ EMİSYONLARININ BELİRLENMESİ	Ebru ÖZFIRAT, Suat TORAMAN
13:45-14:00	THE CONCEPT OF AIRCRAFT LEASING IN THE AVIATION SECTOR	Gizem Öykü PARLAR, Özkan YAVUZYILMAZ
14:00-14:15	SWOT ANALYSIS OF THE TURKISH CIVIL AVIATION SECTOR AND DETERMINATION OF THE COMPETITIVENESS LEVEL	Zehranur SANİOĞLU TANIŞ
14:15-14:30	BEĞENİDEN SADAKATE YOLCULUK: SOSYAL MEDYA PAZARLAMA FAALİYETLERİNİN HAVAYOLLARINA YÖNELİK MARKA GÜVENİ VE MARKA SADAKATİNE ETKİSİ ÜZERİNE BİR ARAŞTIRMA	İtcr Ceren MARCOTE SANTOS, Seçil Ulufer KANSOY, Ayberk TUTKUN
14:30-14:45	AN OVERVIEW OF AVIATION MANAGEMENT PROGRAMS IN TÜRKİYE: COMPARISON OF COURSE CURRICULA	Ahmet ERTEK, Gökçen KÖROĞLU
14:45-15:00	INVESTIGATION OF ELECTRICAL POWER GENERATION AND DISTRIBUTION SYSTEMS OF LARGE PASSENGER AIRCRAFT	Fatih Alpaslan KAZAN

SESSION 6 (HALL-B) (13:30-14:45) 07.11.2024-THURSDAY (VIRTUAL)

Chairman	Zehranur SANİOĞLU TANIŞ	
13:30-13:45	THE ROLE OF FLIGHT SIMULATORS IN PILOT TRAINING	Tamer SAVAŞ, Uğur ÖZDEMİR
13:45-14:00	ASSESSING UNMANNED AERIAL VEHICLES IN URBAN AIR MOBILITY: CHALLENGES AND OPPORTUNITIES FOR AIR TRAFFIC MANAGEMENT	Tamer SAVAŞ, Uğur ÖZDEMİR, Özlem ŞAHİN, Öznur USANMAZ
14:00-14:15	A SYSTEMATIC LITERATURE ANALYSIS OF PUBLIC PERCEPTION OF UAVS	Tamer SAVAŞ, Mert ÖN, Uğur ÖZDEMİR
14:15-14:30	FREE VIBRATION AND AEROELASTICITY ANALYSIS OF FUNCTIONALLY GRADED PLATES WITH VARIOUS BOUNDARY CONSTRAINTS	İlke ALGÜL, Mohammad RAHMANİAN
14:30-14:45	RECYCLING OF AEROSPACE CFRP COMPOSITES THROUGH PYROLYSIS	Ali GÜNERHAN, Hürşit DEĞİRMENCİ, Türker Burak GÜVEN, Önder ALTUNTAŞ
14:45-15:00	DUAL-BAND ANTENNA DESIGN FOR UNMANNED AERIAL VEHICLES (UAV)	Mehmet YERLİKAYA