

10TH INTERNATIONAL SCIENTIFIC CONFERENCE
OF DOCTORAL STUDENTS

ISCDS 2021



CONFERENCE PROGRAMME

20th – 21st MAY 2021

ONLINE CONFERENCE

You can join the Webex meeting anytime, from any device:

<https://tuke.webex.com/meet/katarina.draganova>

Thursday 20th May 2021

- 09:00 – 09:15** **CONFERENCE OPENING**
- 09:15 – 09:30** **A FRAMEWORK FOR REAL-TIME OPERATING SYSTEMS USED IN DEVELOPMENT OF CONTROL ALGORITHMS**
Jakub LEŠKO, Rudolf ANDOGA, Miriam HLINKOVÁ, Šimon KARAFFA
- 09:30 – 09:45** **GEOGRAPHIC INFORMATION SYSTEM (GIS) LANDING ASSISTANCE IN EMERGENCY SITUATIONS FOR GENERAL AVIATION OPERATORS OF ULTRA-LIGHT AIRCRAFT**
Dávid PASTÍR, Anton KORNIENKO
- 09:45 – 10:00** **STATISTICAL EVALUATION OF KOSICE-LUTON FLIGHTS WITH WIZZAIR JUST BEFORE LOCKDOWN THE COMMERCIAL FLIGHTS DUE TO COVID-19 PANDEMICS**
Marek PILÁT, Sebastián MAKÓ, Patrik ŠVÁB, Michaela KEŠEĽOVÁ, Marek TOMÁŠ
- 10:00 – 10:15** **DETECTION OF MINIMAL SET OF TRIPS CAUSING THE NECESSITY TO USE EXTRA VEHICLE FOR VEHICLE SCHEDULING PROBLEM – A CASE STUDY**
K. ŠULCOVÁ, J. ŠULC
- 10:15 – 10:30** **THE EFFECTIVENESS OF THE MEASURES TAKEN BY THE TWO DIFFERENT COUNTRIES**
Miroslava ČIČVÁKOVÁ
- 10:30 – 10:45** **AIRCRAFT SELECTION OF AN AIRCRAFT FLEET FOR A NATIONAL AIR CARRIER**
Radovan BALÁŽ
- 10:45 – 11:00** **ECONOMIC EVALUATION OF BASIC TRAINING OF MILITARY AIR TRAFFIC CONTROLLERS**
Mária ČECHOVÁ, Ľubomír ŠUTÁK, Anton KORNIENKO, Martin KELEMEN, Ladislav CHOMA, Matej ANTOŠKO
- 11:00 – 11:15** **AIRPORT SECURITY LEGISLATION**
Ľubomíra BRŮNOVÁ, Michaela KEŠEĽOVÁ
- 11:15 – 11:30** **SELECTION OF A SUITABLE CONTROL METHODOLOGY FOR A SMALL UNMANNED AIRPLANE - SKYDOG**
Miriam HLINKOVÁ, Rudolf ANDOGA, Šimon KARAFFA, Jakub LEŠKO
- 11:30 – 11:45** **COMPARISON OF SELECTED ECONOMIC INDICATORS AND TRENDS OF THE AIR CARRIER THE CZECH AIRLINES**
Martin KELEMEN, Anton KORNIENKO, Mária ČECHOVÁ, Ľubomír ŠUŤÁK, Martin KOVÁČ
- 11:45 – 12:00** **APPLICATION OF PROGRESSIVE METHODS IN THE USE OF METEOROLOGICAL INFORMATION SOURCES BY THE AIRPORTS**
Patrik ŠVÁB, Michaela KEŠEĽOVÁ, Ľubomíra BRŮNOVÁ, Marek PILÁT, Marek TOMÁŠ
- 12:00 – 13:00** **LUNCH BREAK**

- 13:00 – 13:15** **CYBERSECURITY OF AIRPORTS AND SUGGESTIONS TO INCREASE CYBERSECURITY IN THE WORKPLACE**
Anton KORNIENKO, Martin KELEMEN, Mária ČECHOVÁ, Dávid PASTÍR, Ľubomír ŠUŤÁK
- 13:15 – 13:30** **DRONE REGULATORY ENVIRONMENT IN THE EUROPEAN UNION**
Marek KOŠUDA, Pavol LIPOVSKÝ, Jozef NOVOTNÁK, Martin FILKO, Zoltán SZŐKE
- 13:30 – 13:45** **NEW KNOWLEDGE OF THE USE OF TECHNOLOGICAL SENSORS APPLIED IN AIRCRAFT TIRE**
Nikola STAŘIČNÁ, Milan DŽUNDA
- 13:45 – 14:00** **POSSIBILITIES OF USING MAGNETICALLY DETECTABLE FILAMENT FOR THE MAGNETORQUERS CORES PRODUCTION**
Patrik KAŠPER, Martin FILKO, Miroslav ŠMELKO, Anna ČEKANOVÁ, Zoltán SZŐKE

Friday 21st May 2021

- 09:00 – 09:15** **ANALYSIS OF PILOT PROPERTIES WHEN COONTROLLING AN AIRCRAFT IN THE LONGITUDINAL PLANE**
Róbert BRÉDA, Šimon KARAFFA, Miriam HLINKOVÁ
- 09:15 – 09:30** **LUQA AIRPORTS BEFORE AND DURING THE COVID-19 PANDEMIC**
Marek TOMÁŠ, Róbert ROZENBERG, Marek PILÁT, Patrik ŠVÁB
- 09:30 – 09:45** **CONCEPT OF OPTIMIZATION OF UAV OPERATORS TRAINING AND EVALUATION**
Zoltán SZŐKE, Patrik KAŠPER
- 09:45 – 10:00** **THE INFLUENCE OF COVID-19 ON MRO PROCESSES**
Branislav RÁCEK, Michal HOVANEK
- 10:00 – 10:15** **REVIEW OF ANTI-PANDEMIC MEASURES AT AIRPORT TRANSPORT SYSTEMS IN THE PERIOD OF COVID-19**
Tomáš MUSIL, Beáta SEMRÁDOVÁ
- 10:15 – 10:30** **THE IMPACT OF THE PANDEMIC ON THE AIRLINE INDUSTRY – A YEAR WITH COVID-19**
Dávid MELAS
- 10:30 – 10:45** **ECONOMIC ASPECTS OF STANDARD ARRIVAL AND DEPARTURE ROUTES AT SELECTED AIRPORT**
Ľubomír ŠUŤÁK, Mária ČECHOVÁ, Anton KORNIENKO, Martin KELEMEN, Ladislav CHOMA, Matej ANTOŠKO
- 10:45 – 11:00** **UTILIZATION AND IMPLEMENTATION OF FATIGUE RISK MANAGEMENT IN AVIATION SAFETY**
Stanislav SZABO ml.
- 11:00 – 11:15** **STRUCTURAL PERCEPTION OF SAFETY MANAGEMENT SYSTEM (SMS) IN THE CONTEXT OF CIVIL AVIATION AUTHORITIES**
Michaela KEŠEĽOVÁ, Ľubomíra BRŮNOVÁ, Sebastián MAKÓ, Patrik ŠVÁB, Marek PILÁT
- 11:15** **CONFERENCE CLOSURE**