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# Faculty of Transport and Traffic Engineering Division of Aircraft

### Scientific field (Frascati Manual)

Transport engineering

Aerospace engineering

### Brief description of expertise

Management, planning, organization and exploitation cost of transport aircraft. Maintenance, safety and security of aircraft. Computer simulation in the area of aircraft exploitation. Aviation and protection of the environment (emission of noise and pollutants). Energy efficiency of aircraft operations.

#### Keywords

aircraft, transport aircraft performance, aircraft powerplants, aircraft instruments, aircraft systems, aircraft safety and security, aircraft maintenance, aircraft and environmental protection, energy efficiency of aircraft, aeronautical engineering

#### Commercial services

Expertise of the damage of B727 type aircraft, reg. number YU-AKJ, on the A1 parking position of Belgrade Airport, Institute of Transport and Traffic Engineering, Belgrade, 1996.

Preliminary design of the fixed system for aircraft climatization and electrical energy supply on the A and C aprons of Belgrade Airport, Institute of Transport and Traffic Engineering, Belgrade, 2003.

Trend Group - Young People (TG-YP), Test Case - Nis Airport Reconstruction Project.

Expertise of the takeoff incident of F100 type aircraft, reg. number YU-AOM, and the damages of the Rolls-Royce TAY 650-15 engine fan blades, Institute of Transport and Traffic Engineering, Belgrade, 2010.

Expertise of the irregularities and flight incident of V-54 LASTA P2 aircraft above the Lisicji Jarak airport, Institute of Transport and Traffic Engineering, Belgrade, 2014.

## Realized and current projects

## A) NATIONAL PROJECTS

Title	Project ID	Funding source	Duration
Options for increasing energy		Ministry of the Deputhic of	
efficiency of transport	290051	Ministry of the Republic of Serbia	2005
processes in air traffic		Serbia	

Title	Project ID	Funding source	Duration		
Review and analysis of					
measures applied in European countries aimed at improving the energy efficiency of transport	293004	Ministry of the Republic of Serbia	2007		
Program for the reduction of emissions and noise in the system of air traffic of the Republic of Serbia	15007	Ministry of the Republic of Serbia	2008-2010		
The system of environmental management in terms of emissions and the risk of transport aircraft accidents in the Republic of Serbia	TR36001	Ministry of the Republic of Serbia	2011-2014		
Development of software and national database for strategic management of the development of transportation means and infrastructure in road, rail, air and water traffic by applying the European transportation network models  B) INTERNATIONAL PROJECTS	TR36027	Ministry of Education, Science and Technological Development of the Republic of Serbia	2011-2015		

Title	Project ID	Funding source	Duration	
Europe-Adriatic SEA-WAY	1°STR/0011	Adriatic IPA, Cross Border	2014-2016	
		Cooperation 2007-2013		
Transport Equity Analysis:				
assessment and integration of	COST Action TU1209	COST (European Cooperation	2012 2017	
equity criteria in	COST ACTION TO 1209	in Science and Technology).	2013-2017	
transportation planning (TEA)				
Licenses				

Name	Last name	Type of license	License No
		Responsible design engineer	
Olja	Čokorilo	of traffic and traffic	370F19507
		signalisation	
		Responsible design engineer	
Petar	Mirosavljević	of traffic and traffic	370C31805
		signalisation	

# Industry group (according to "Gazette RS", No. 54/10)

Passenger air transport

Freight air transport and space transport

Technical testing and analysis

Research and experimental development on natural sciences and engineering

Higher education

## Accredited laboratories

Title	Contact person
Laboratory for transport aircraft	Petar Mirosavljević

## PhD thesis within the unit done according to the industry needs

Name	Last name	Title	Year	Mentor
Olja	Čokorilo	Risk Management		
		Implementation in	2010	Slobodan Gvozdenović
		Safety Management		
		System (SMS)		
Petar	Mirosavljević	Performance	2009	Slobodan Gvozdenović
		optimization climbing		
		transport aircraft in		
		operation costs		

## Staff list within the unit

Name	Last name	Teaching/scientific title
Slobodan	Gvozdenović	Full professor
Ljubiša	Vasov	Full professor
Petar	Mirosavljević	Asistant professor
Olja	Čokorilo	Asistant professor

Name	Last name	Teaching/scientific title
Branimir	Stojiljković	Teaching and Researh Assistant
Ivana	Čavka	Researh Assistant