



Dr Obrad Babić

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Education

- Dipl. Ing. (BSc), University of Belgrade, Faculty of Transport and Traffic Engineering (Diploma in Air Transport Engineering)
- MSc, University of Belgrade, Faculty of Transport and Traffic Engineering (MSc in Air Transport Engineering)
- PhD, University of Belgrade, Faculty of Transport and Traffic Engineering (PhD in Air Transport Engineering)

Employment History

- 1997 to date Professor, University of Belgrade, Faculty of Transport and Traffic Engineering
- 1992 - 1997 Associate Professor, University of Belgrade, Faculty of Transport and Traffic Engineering
- 1987 - 1992 Assistant Professor, University of Belgrade, Faculty of Transport and Traffic Engineering
- 1984 – 1987 Teaching and Research Assistant, University of Belgrade, Faculty of Transport and Traffic Engineering
- 1978 – 1984 Junior Teaching and Research Assistant, University of Belgrade, Faculty of Transport and Traffic Engineering

Key Research Interests

- Air Traffic Control/Management Modelling/Simulations
- Air Traffic Complexity Modelling/Analysis
- Airport Planning and Design
- Air transport: operations, management, planning, design, analysis, modelling, safety, economics and environmental protection in particular in air traffic management

Research Projects and Experience

- Research and management in more than 80 national and European consulting and research projects in the fields of airports and air traffic control/management design, planning, analysis and modelling.

Professional Engagements

- Licensed Engineer (Section of Designers) Serbian Chamber of Engineers, License 370 1307 03
- May - June 1988, Visiting Academic, Technical University of Berlin

Teaching

1987 to 2008: FTTE Engineering (Air Transport) program - Teaching:

- Air Traffic Control (two semester undergraduate course)
- Airports (two semester undergraduate course)
- Air Cargo Transport (one semester undergraduate course)
- Introduction to Air Transportation (one semester undergraduate course)

2008 – 2010: FTTE Air Force Pilot program:

- Air Traffic Control (two semester undergraduate course)

Since 2008: FTTE Engineering (Air Transport) program - Courses:

- Air Traffic Control 1 (teaching, one trimester undergraduate course)
- Air Traffic Control 2 (teaching, one trimester undergraduate course)
- Air Traffic Control 3 (teaching, one trimester graduate course at MS level)
- Air Traffic Control 4 (teaching, one semester graduate course at PhD level)

Selected Publications

O. Babić, D. Teodorović, V. Tošić
Aircraft Stand Assignment to Minimize Walking
Journal of Transportation Engineering, ASCE, Vol.110, No.1, 1984, pp.55-66

V. Tošić, **O. Babić**
Air Route Flow Management - Problems and Research Efforts
Transportation Planning and Technology, Vol. 19, No. 1, 1995, pp. 63-72

V. Tošić, **O. Babić**, M. Čangalović, Đ. Hohlačov
Some Models and Algorithms for En Route Air Traffic Flow Management
Transportation Planning and Technology, Vol. 19, No. 2, 1995, pp. 147-164

V. Tošić, **O. Babić**
Quantitative Evaluation of Passenger Terminal Orientation
Journal of Advanced Transportation, Vol.18, No.3, 1984, pp. 297-295

V.Tošić, D.Teodorović, **O.Babić**
Optimum Runway Exit Location
Transportation Planning and Technology, Vol.10, No.2, 1985, pp.135-145

O. Babić, T. Krstić
Airspace daily operational sectorization by fuzzy logic
Fuzzy Sets and Systems, Vol. 116, No. 1, 2000, pp.49-64

Z. Radosavljević, **O. Babić**
Assigning Fighter Plane Formations to Enemy Aircraft using Fuzzy Logic
Transportation Planning and Technology, Vol. 23, No. 4, 2000, pp. 353-368

R. Jovanović, L. Castelli, **O. Babić**, V. Tošić
Effects on Airline Costs of Different Air Traffic Management Scenarios: An Assessment Method Based on Fast-time Simulation Outputs
International Journal of Transport Economics, Vol. XXXVII, No. 3, 2010, pp. 327-352

O. Babić, M. Kalić, G. Pavković, S. Dožić, M. Čangalović
Heuristic approach to the airline schedule disturbances problem
Transportation Planning and Technology, Vol. 33, No. 3, 2010, pp. 257-280