

ADNAN MAŠIĆ

1. RESEARCH INTEREST

- Atmospheric Physics
- Computational Fluid Dynamics
- Unmanned Aerial Vehicles
- Data Science

2. EDUCATION (Faculty, Doctorate)

- 2016 PhD degree at the Faculty of Mechanical Engineering, University of Sarajevo
- 2009 Master of Science degree at Physics Department, Faculty of Science, University of Sarajevo
- 1998 – 2003 University of Sarajevo, Faculty of Science, Physics Department, graduated with overall grade 9.75 (in the system 5-10), obtained Dipl. Physicist degree
- 2002 – 2003 Delft University of Technology, The Netherlands, Faculty of Applied Sciences, Department of Applied Physics

3. WORK EXPERIENCE

- 2003 – University of Sarajevo, Faculty of Mechanical Engineering, current position: Chair of department for Mathematics and Physics
- 2018 – Sarajevo School of Science and Technology - Sarajevo Medical School
- 2017 – 2018 International University of Sarajevo
- 2008-2010 International Burch University
- 2005-2007 Faculty of Science, University of Sarajevo

4. TEACHING EXPERIENCE

- 2003 – 2009 Teaching Assistant
- 2009 – 2016 Senior Teaching Assistant
- 2016 – Assistant Professor

5. PROFESSIONAL DEVELOPMENT

- 2007 Friedrich-Alexander-Universität Erlangen-Nürnberg, 6-months research grant in Fluid Dynamics

6. FUNDED PROJECTS

- Investigation of air pollution in Sarajevo Valley using UAV for measurements of temperature inversions (2016)
- Air pollution in Sarajevo Canton: spatial variation of air quality index (2017)

- Development of sensor cloud for measurements of particulate matter concentrations (2018)
- New methods for measurements of air pollution (2018)

7. PUBLICATONS

a) Original scientific papers

- A. Mašić, Dž. Bibić, B. Pikula, E. Džaferović-Mašić, R. Musemić: *EXPERIMENTAL STUDY OF TEMPERATURE INVERSIONS ABOVE URBAN AREA USING UNMANNED AERIAL VEHICLE*, **Thermal Science**, 250 (2018)
- A. Mašić, Dž. Bibić, B. Pikula, F. Razić: *New Approach of Measuring Toxic Gases Concentrations: Principle of Operation*, **29th DAAAM PROCEEDINGS**, 882-887 (2018)
- Dž. Bibić, B. Pikula, A. Mašić, F. Razić: *New Approach of Measuring Toxic Gases Concentrations: Application Examples*, **29th DAAAM PROCEEDINGS**, 876-881 (2018)
- A. Mašić, B. Pikula, Dž. Bibić, R. Musemić, A. Halač: *Calibration and Assessment of Low-Cost Dust Sensors*, **29th DAAAM PROCEEDINGS**, 523-528 (2018)
- A. Mašić, Dž. Bibić, B. Pikula, E. Džaferović-Mašić, F. Razić: *VISUALIZATION OF DATA FROM NETWORK OF SENSORS: APPROPRIATE SPATIAL INTERPOLATION METHOD*, **29th DAAAM PROCEEDINGS**, 529-533 (2018)
- A. Mašić, B. Pikula, Dž. Bibić: *MOBILE MEASUREMENTS OF PARTICULATE MATTER CONCENTRATIONS IN URBAN AREA*, **Annals of DAAAM & Proceedings 28**, 452-456 (2017)
- A. Mašić, B. Pikula, Dž. Bibić: *DYNAMIC CHARACTERISTICS OF THE ELECTRIC VEHICLE*, **Annals of DAAAM & Proceedings 28**, 446-4512 (2017)
- A. Mašić, R. Musemić, E. Džaferović-Mašić: *Temperature inversion measurements in Sarajevo valley using unmanned aerial vehicles*, **Annals of DAAAM & Proceedings 28**, 423-428 (2017)
- A. Mašić: *UNMANNED AERIAL VEHICLE AS DATA ACQUISITION SYSTEM*, **Journal of Trends in the Development of Machinery and Associated Technology**, (2015)
- A. Mašić: *NUMERICAL SIMULATION OF BOILING PROCESS*, **Journal of Trends in the Development of Machinery and Associated Technology**, (2015)
- A. Mašić, S. Muzaferija: *A PHASE CHANGE MODEL FOR MULTIPHASE FLOWS*, **Journal of Trends in the Development of Machinery and Associated Technology**, (2014)

b) Conferences, presentations, abstracts, proceedings

- A. Mašić: *Magnetic dynamo effect*, **European Forum for Early Researchers**, Slovenia (2005)
- A. Mašić, R. Musemić: *Turbulent modelling of swirling pipe flow towards the simulation of dynamo effect*, **8th International Research / Expert Conference TMT**, 347 (2004)