

**Dr Dagutin T. Mihailović, redovni profesor, gostujući
profesor na New York State University at Albany**

Uža naučna oblast: Meteorologija i biofizika

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Obrazovanje

- **Dipl. inž. (1974)** – Fizički fakultet u Beogradu
- **Magistar nauka (1978)** - Fizički fakultet u Beogradu
- **Doktor nauka (1983)** - Fizički fakultet u Beogradu, Doktorska disertacija: " *Greška u sili gradijenta pritiska i jedna mogućnost za njeno smanjenje* "

Odabrane publikacije

1. **Mihailovic, D.T.**, Alapaty, K. (2007): Intercomparison of two K-schemes: Local versus non-local in calculating concentrations of pollutants in chemical and air-quality models. *Environmental Modelling and Software*, 22 (11): 1685-1689.
2. **Mihailovic, D.T.**, Alapaty, K., Sakradzija, M. (2008): Development of a nonlocal convective mixing scheme with varying upward mixing rates for use in air quality and chemical transport models. *Environmental Science and Pollution Research*, 15(4): 296-302.
3. **Mihailovic, D.T.**, Alapaty, K., Podrascanin, Z. (2009): The combined non-local diffusion and mixing schemes, and calculation of in-canopy resistance for dry deposition fluxes. *Environmental Science and Pollution Research*, 16: 144-151.
4. **Mihailovic, D.T.**, Lazic, J., Lešny, J., Olejnik, J., Lalic, B., Kapor, D.V., Cirisan, A. (2010): A new design of the LAPS land surface scheme for use over and through heterogeneous and non-heterogeneous surfaces: Numerical simulations and tests. *Theoretical and Applied Climatology*, 100 (3-4): 299-323.
5. **Mihailovic, D.T.**, Kapor, D., Cirisan, A., Firanj, A., 2012: Parameterization of the albedo over the heterogeneous surfaces for different geometries in a land surface scheme by the Monte Carlo Ray-tracing method. *Atmospheric Research*, 107, 51-68.

Odabrani projekti

1. Implementation of Land Air Parameterisation Scheme (LAPS) in the NCEP mesoscale model. Supported by the New York State energy research and development authority under contractual agreement NYSERDA 4914-ERTER-ES-99 (2002-2003). (Koordinator)
2. Sixth framework project (FP6) Reinforcement of the research potential in center for meteorology and environmental predictions (RRP-CMEP) Proposal/Contract no. 043670 (2006-2009). (Koordinator)

3. Bilateral cooperation project between Serbian and French government: Coupling STICS - LAPS models to improve the representation of crop processes and land-atmosphere interactions (2008-2010). (Lokalni koordinator)
4. Sixth framework project (FP6) Adaptation of agriculture in European regions at environmental risk under climate change (ADAGIO) Proposal/Contract No. 044210 (2006-2009). (Lokalni koordinator)
5. Istraživanje klimatskih promena I njihovog uticaja na životnu sredinu: prećenje uticaja, adaptacija i ublažavanje - Integrisana Interdisciplinarna Istraživanja (2011-2014) – Ministarstvo prosvete i nauke, RS. (Lokalni koordinator)

Akadske aktivnosti

- **Nastava** iz meteorologije i biofizike na osnovnim akademskim, master i doktorskim studijama, Nastava iz modeliranja fizičkih procesa na akademskim, master i doktorskim
- **Mentor** 5 doktorskih disertacija, 4 magistarske teze, 1 master rada

Članstvo u udruženjima (do 5)

- Environmental Modelling and Software Society
- član COST 734 Impacts of Climate Change and Variability on European Agriculture – CLIVAGRI (2006-2010);
- član COST TU0902 Integrated Assessment Technologies to Support the Sustainable Development of Urban Areas (2009-2013).

Ostale aktivnosti (do 5)

- Član uređivačkog odbora u Environmental Modelling and Software (1992-2010)
- recenzent u sledećim časopisima: American Mathematical Society (M21), Journal of Atmospheric Science (M21), Agricultural and Forestry Meteorology (M21), Boundary Layer Meteorology (M21), Ecological Modelling (M22), Environmental Modelling and Software (M21), Environmental Fluid Mechanics (M21); Solar Energy (M21)
- Organizator sekcije međunarodne konferencije “Environmental Fluid Mechanics” u organizaciji Environmental Modelling and Software Society na kongresima (Lugano., 2002., Osnabruck 2004., Burlington 2006., Barcelona, 2008., Ottawa, 2010.)
- 6 međunarodnih monografija u period od 2008. do 2012. godine

(1) Gualtieri, C. and Mihailovic, D.T. (Eds.) 2008: *Fluid mechanics of environmental interfaces*. Taylor & Francis Ltd., London, pp. 348.

(2) Mihailovic, D.T. and Vojnović Miloradov, M. (Eds.) 2009: *Environmental, health and humanity issues in the down danubian region: Multidisciplinary approaches*, World Scientific Publishing Co., Singapore, pp. 370.

(3) Mihailovic, D.T. and Lalic, B. (Eds.) 2010: *Advances in environmental modeling and measurements*. Nova Science Publishers Inc., New York, pp. 278.

(4) Mihailovic, D.T. and Gualtieri, C. (Eds.) 2010: *Advances in environmental fluid mechanics*. World Scientific Publishing Co., New Jersey, pp. 380.

(5) Mihailovic, D.T. (ed.) 2012: *Essays of Fundamental and Applied Environmental Topics*. Nova Publishers Inc., New York, pp. 353.

(6) Gualtieri, C. and Mihailovic, D.T. (Eds.) 2012: *Fluid mechanics of environmental interfaces*. Taylor & Francis Ltd. (2nd edition) , London, pp. 512.

- 69 radova u međunarodnom časopisima; 7 plenarnih izlaganja na međunarodnim konferencijama; 405 citata u časopisima sa SCI liste i međunarodnim knjigama; govori; čita i piše engleski.

Professor Dragutin T. Mihailovic, Ph.D.

**Field of research: Meteorology and Biophysics, visiting
profesor na New York State University at Albany**

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Telephone: +381 21 4853 203

Academic qualifications

- **B.Sc.** (1974) - University of Belgrade, Faculty of Physics
- **M.Sc.** (1978) - University of Belgrade, Faculty of Physics
- **Ph.D.** (1983) - University of Belgrade, Faculty of Physics

Selected publications

1. **Mihailovic, D.T.**, Alapaty, K. (2007): Intercomparison of two K-schemes: Local versus non-local in calculating concentrations of pollutants in chemical and air-quality models. *Environmental Modelling and Software*, 22 (11): 1685-1689.
2. **Mihailovic, D.T.**, Alapaty, K., Sakradzija, M. (2008): Development of a nonlocal convective mixing scheme with varying upward mixing rates for use in air quality and chemical transport models. *Environmental Science and Pollution Research*, 15(4): 296-302.
3. **Mihailovic, D.T.**, Alapaty, K., Podrascanin, Z. (2009): The combined non-local diffusion and mixing schemes, and calculation of in-canopy resistance for dry deposition fluxes. *Environmental Science and Pollution Research*, 16: 144-151.
4. **Mihailovic, D.T.**, Lazic, J., Lešny, J., Olejnik, J., Lalic, B., Kapor, D.V., Cirisan, A. (2010): A new design of the LAPS land surface scheme for use over and through heterogeneous and non-heterogeneous surfaces: Numerical simulations and tests. *Theoretical and Applied Climatology*, 100 (3-4): 299-323.
5. **Mihailovic, D.T.**, Kapor, D., Cirisan, A., Firanj, A., 2012: Parameterization of the albedo over the heterogeneous surfaces for different geometries in a land surface scheme by the Monte Carlo Ray-tracing method. *Atmospheric Research*, 107, 51-68.

Selected projects

1. Implementation of Land Air Parameterisation Scheme (LAPS) in the NCEP mesoscale model. Supported by the New York State energy research and development authority under contractual agreement NYSERDA 4914-ERTER-ES-99 (2002-2003). (Coordinator)

2. Sixth framework project (FP6) Reinforcement of the research potential in center for meteorology and environmental predictions (RRP-CMEP) Proposal/Contract no. 043670 (2006-2009). (Coordinator)
3. Bilateral cooperation project between Serbian and French government: Coupling STICS - LAPS models to improve the representation of crop processes and land-atmosphere interactions (2008-2010). (Local Coordinator)
4. Sixth framework project (FP6) Adaptation of agriculture in European regions at environmental risk under climate change (ADAGIO) Proposal/Contract No. 044210 (2006-2009). (Local Coordinator)
5. Studying climate change and its influence on the environment: impact, adaptation and mitigation – Integrated and Interdisciplinary research program (2011-2014) – Ministry of Education and Science, RS. (Local Coordinator)

Academic activities

- Teaching at undergraduate, postgraduate and Ph.D. studies form meteorology, biophysics and modeling physical processes
- Supervisor of 5 Ph.D. thesis, 4 Magister's thesis, 1 M.Sc. thesis, member in numerous committees

Memberships

- Environmental Modelling and Software Society
- COST 734 Impacts of Climate Change and Variability on European Agriculture – CLIVAGRI (2006-2010);
- COST TU0902 Integrated Assessment Technologies to Support the Sustainable Development of Urban Areas (2009-2013).

Other activities

- Member of Editorial board in Journal Environmental Modelling and Software
- Reviewer in journals: American Mathematical Society (M21), Journal of Atmospheric Science (M21), Agricultural and Forestry Meteorology (M21), Boundary Layer Meteorology (M21), Ecological Modelling (M22), Environmental Modelling and Software (M21), Environmental Fluid Mechanics (M21); Solar Energy (M21)
- Chairing and organizer of Biennale meetings “Environmental Fluid Mechanics” in organization of Environmental Modelling and Software Society (Lugano, 2002, Osnabruck 2004, Burlington 2006, Barcelona, 2008, Ottawa, 2010)
- 6 international monographs in the period 2008 - 2012.

(1) Gualtieri, C. and Mihailovic, D.T. (Eds.) 2008: *Fluid mechanics of environmental interfaces*. Taylor & Francis Ltd., London, pp. 348.

(2) Mihailovic, D.T. and Vojnović Miloradov, M. (Eds.) 2009: *Environmental, health and humanity issues in the down danubian region: Multidisciplinary approaches*, World Scientific Publishing Co., Singapore, pp. 370.

(3) Mihailovic, D.T. and Lalic, B. (Eds.) 2010: *Advances in environmental*

modeling and measurements. Nova Science Publishers Inc., New York, pp. 278.
(4) Mihailovic, D.T. and Gualtieri, C. (Eds.) 2010: *Advances in environmental fluid mechanics*. World Scientific Publishing Co., New Jersey, pp. 380.
(5) Mihailovic, D.T. (ed.) 2012: *Essays of Fundamental and Applied Environmental Topics*. Nova Publishers Inc., New York, pp. 353.
(6) Gualtieri, C. and Mihailovic, D.T. (Eds.) 2012: *Fluid mechanics of environmental interfaces*. Taylor & Francis Ltd. (2nd edition) , London, pp. 512.

- 69 articles in international peer-reviewed journals; 7 plenary talks on international conferences; cited 405 times in SCI journals and book and monographs; speaking and writing English.