PUBLICATIONS 2010

ARTICLES

ISI

1. A. Bărbulescu, D - C. Toncu, Modelling Precipitation Influence on Tăbăcărie Lake Water *Quality, Mathematical Methods, Computational Techniques, Intelligent Systems*, 2010, pp.152 - 158 (ISBN 978-960-474-188-5, ISSN 1790-2769)

2. A. Bărbulescu, C. Şerban (Gherghina), C. Maftei, Evaluation of Hurst exponent for precipitation time series, *Latest Trends on Computers*, Vol.**II**, 2010, pp. 590 – 595 (ISSN 1792-4251, ISBN 978-960-474-213-4)

3. C. Şerban (Gherghina), C. Maftei, A. Bărbulescu, Estimation of Evapotranspiration Using Remote Sensing Data and Grid Computing: A Case Study in Dobrogea, Romania, *Latest Trends on Computers*, Vol. **II**, 2010, pp. 596 – 601 (ISSN 1792-4251, ISBN 978-960-474-213-4)

4. C. (Gherghina) Şerban, C. Maftei, Computational Grids and remite Sesnsing- based analysis of Thermal Environment of Geographic Area, *Proceedings of the 9th RoEduNet IEEE International Conference* 2010, pp. 346 - 352 (ISSN 2068-1046)

5. C. Maftei, Bărbulescu, A. C. Buta, D. Teodorescu, Statistical analysis of precipitation time series in Dobrudja region, *MAUSAM*, submitted, 8.04.2010

6. A. Bărbulescu, J. Deguenon, *Nonparametric regression methods for homogenous precipitation groups,* WATER SA – submitted 2.07.2010 (2594 WATER S.A)

7. A. Bărbulescu, J. Deguenon, Fitting the Annual Precipitation Evolution in Dobrudja Region, *ATMOSFERA* - submitted 15.07.2010

8. A. Bărbulescu, J. Deguenon, Change points detection and precipitation variation analysis at two stations in the Romanian Black Sea Littoral, *Hydrological Sciences Journal*, submitted 12.07.2010 (HSJ 2010_0200)

9. J. Deguenon, A. Bărbulescu, GPD Models for extreme rainfall with cyclic trend detection over ten stations in Dobrudja, *International Journal of Climatology*, submitted 5.08.2010 (JOC-10-0297)

10. A. Bărbulescu, J. Deguenon, Study of local and global variability of rainfall over Dobrudja region, using nonparametric approach, *Advances in Water Resources*, submitted 30.09.2010 (AWR – 10 – 235)

11. A. Bărbulescu, C. Şerban, Statistical and multifractal analysis of rainfall of Romania, *Communications in Statistics: Theory and Methods*, submitted 29.10.2010

BDI

1. A. Bărbulescu, The analysis of correlation of some ions concentration in rainwater in an urban area, *International Journal of Mathematical Models and Methods in Applied Sciences*, Issue **2**, Volume 4, 2010, pp.105 – 112, ISSN: 1998-0140,
 http://www.naun.org/journals/m3as/19-307.pdf,

2. A. Bărbulescu, C. Şerban (Gherghina), C. Maftei, Statistical Analysis and Evaluation of Hurst Coefficient for Annual and Monthly Precipitation Time Series, *WSEAS Transactions on Mathematics,* Issue **10**, Volume 9, October 2010, pp. 791 – 800 (ISSN 1109 - 2769),
http://www.wseas.us/e-library/transactions/computers/2010/88-353.pdf

3. C. Şerban (Gherghina), C. Maftei, A. Bărbulescu, Assessment of Evapotranspiration Using Remote Sensing Data and Grid Computing and Application, *WSEAS Transactions on Computers*, Issue **11**, Volume 9, November 2010, pp.1245 – 1254 (ISSN 1109-2750)
http://www.wseas.us/e-library/transactions/mathematics/2010/88-408.pdf

4. C. Şerban, C. Maftei, Thermal analysis of climate regions using remote sensing and grid computing, IJCNC, accepted 10.10.2010

5. J. Deguenon, A. Bărbulescu, Study of Extreme Daily Rainfall Using GPD Model, *International Journal of Mathematics and Computation*, in print

6. C. (Gherghina) Șerban, C. Maftei, A. Bărbulescu, A Web Services Composition with BPEL for Satellite-based Land Surface Temperature Estimation, *International Journal of Mathematics and Computation*, in print

BOOKS

1. A. Bărbulescu, C. Maftei, E. Băutu, *Modeling the hydro-meteorological time series. Applications to Dobrudja region*, Lambert Academic Publishing GmbH & Co. KG**,** Germany (ISBN 978-3-8433-6578-9) (in print)

2. A. Bărbulescu, D. Teodorescu, J. Deguenon, Study on Water Resources in the Romanian Black Sea Region, in The Black Sea: Dynamics, Ecology and Conservation, Nova Publishing, USA (in print)

3. A. Bărbulescu, J. Deguenon, D. Teodorescu, *Study of water resources in the Black Sea region. Some mathematical models*, Nova Publishing, USA (in print)

4. C.I. Koncsag, A. Bărbulescu, Liquid-liquid extraction with and without a chemical reaction, in Mass Transfer, INTECH, Austria, ISBN 978-953-7619-X-X (in print)

5. A. Kallel, A. Hassairi, C.A. Bulucea, N. Mastorakis, editors, **A. Bărbulescu, associate editor,** *Mathematical Methods, Computational Techniques, Intelligent Systems*, WSEAS Press, 2010, (ISBN: 978-960-474-188-5, ISSN: 1790-2769)