

## PUBLICATIONS

### ✓ Articles:

1. **Cristina (Gherghina) Serban**, Carmen Maftai, “Thermal Analysis of Climate Regions using Remote Sensing and Grid Computing”, International Journal of Computer Networks and Communications (IJCNC)
2. Alina Barbulescu, **Cristina Serban**, Carmen Maftai, “Statistical Analysis and Evaluation of Hurst Coefficient for Annual and Monthly Precipitation Time Series”, WSEAS Transactions on Mathematics, Issue 10, Volume 9, Oct. 2010, pp.791-800, ISSN: 1109-2769
3. **Cristina Serban**, Carmen Maftai, Alina Barbulescu, “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
4. Cosmin Filip, **Cristina Serban**, Mirela Popa, Gabriela Draghici, “A Computerized Technique for Multi-Criteria Analysis of Seismic Disasters - GESKEE Database”, WSEAS Transactions on Computers, ISSN: 1109-2750, Issue 11, Volume 9, November 2010, pp.1328-1337
5. **Cristina (Gherghina) Serban**, Carmen Maftai, “Computational Grids and Remote Sensing-based Analysis of Thermal Environment of a Geographic Area”, Proceedings of the 9<sup>th</sup> RoEduNet IEEE International Conference 2010, pp. 346-352, ISSN 2068-1046
6. **Cristina (Gherghina) Serban**, Carmen Maftai, Alina Barbulescu, “Estimation of Evapotranspiration Using Remote Sensing Data and Grid Computing: A Case Study in Dobrogea, Romania”, Proceedings of the 14th WSEAS International Conference on COMPUTERS, July 23-25 Corfu, Grecia 2010, pp. 596 – 601, indexed ISI, INSPEC, Elsevier, Zentralblatt, EI (Compendex)
7. Alina Barbulescu, **Cristina (Gherghina) Serban**, Carmen Maftai, “Evaluation of Hurst Exponent for Precipitation Time Series”, Proceedings of the 14th WSEAS International Conference on COMPUTERS, July 23-25 Corfu, Grecia 2010, pp. 590 – 595, indexed ISI, INSPEC, Elsevier, Zentralblatt, EI (Compendex)
8. **Cristina (Gherghina) Serban**, Carmen Maftai, “A Web Services Composition with BPEL for Satellite-based Land Surface Temperature Estimation”, International Journal of Mathematics and Computation (in print), 2010
9. Cosmin Filip, **Cristina (Gherghina) Serban**, Mirela Popa, Gabriela Draghici, “GESKEE – an Innovative Database for Seismic Risk Assessment and Loss Scaling”, Proceedings of the 14th WSEAS International Conference on COMPUTERS, July 23-25 Corfu, Grecia 2010 indexed ISI, INSPEC, Elsevier, Zentralblatt, EI (Compendex)

10. Ichinur Omer, **Cristina (Gherghina) Serban**, “ A Java-based Program for Numerical Computation of Hydraulic Shock”, Proceedings of the 12th WSEAS International Conference on Mathematical Methods, Computational Techniques And Intelligent Systems (MAMECTIS '10), May 3-6 Sousse, Tunisia 2010, indexed ISI, INSPEC, Elsevier, Zentralblatt, EI (Compendex)
11. **Cristina Gherghina**, “A Web Services Composition with BPEL and Satellite Image Processing for urban and river bed changes assessment”, Annals of ”Ovidius” University of Constanta, Series Mathematics Vol. 17(3), 2009, pp. 131–148, ISSN 1224-1784, e-ISSN 1844 – 0835, revista cotata CNCSIS A, indexed SCIE-Thomson Reuters, [Mathematical Reviews](#), [Zentralblatt MATH](#)
12. **Cristina Gherghina**, Eliza Isbasoiu, “Gris Services and Satellite Image Processing for urban and river bed changes assessment”, Proceedings of the 10th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing – SYNASC 2008, September 26-29, IEEE Computer Press, pp. 400-404, ISBN 978-0-7695-3523-4, ISI Proceedings, indexed IEEE INSPEC, EI (Compendex), DBLP
13. **Cristina Gherghina** , Eliza Isbasoiu, “*Web Services and JAI for Digital Image Processing*”, Proceedings of the 8th International Conference On Technical Informatics – Conti’2008, 5-6 June, Timisoara, Romania, 2008, Vol.2, pp.79-84, ISSN 1844-539X, indexed CNCSIS B+
14. Ichinur Omer, **Cristina Gherghina**, “*A Software Implementation Of Water Waves Propagation*”, Annals of Oradea University, Fascicle of Management and Technological Engineering, Volume VII (XVII), 2008, indexed CNCSIS B+, pp. 485-490
15. Carmen Maftai, **Cristina Gherghina**, Alina Bărbulescu, „A computer program for statistical analyzes of hydro - meteorological data”, International Journal Mathematical Manuscripts vol.1, no.1 (2007), pp. 95 – 103 (ISSN 0974 – 2883)
16. Maftai Carmen, **Gherghina Cristina**, Gelmambet S., Teodorescu D, “Study of reference evapotranspiration in Dobrogea region”, USAMV Iasi, seria Agronomie, 2008, pp.1005-1010, ISSN 1454-7376, categoria B+
17. Carmen Maftai, **Cristina Gherghina**, Sunai Gelmambet, Constantin Buta, “*ETREF un logiciel oui calcule l’evapotranspiration de reference*”, Annals of Oradea University, Fascicle of Management and Technological Engineering, pp. 86-93, 2007, ISSN 1583 – 0691, indexed CNCSIS B+
18. Ichinur Omer, Dumitru Ion Arsenie, Claudiu Stefan Nitescu, **Cristina Gherghina**, „*A software implementation of a calculus algorithm over the sections of a loop*”, Annals of Oradea University, Fascicle of Management and Technological Engineering, 2007, pp. 310-315, ISSN 1583 – 0691, indexed CNCSIS B+
19. **Cristina Gherghina**, “*Servicii Web. Implementare cu BPEL4WS*”, Seminarul Stiintific de Comunicatii de Date si Sisteme Distribuite, Facultatea de Matematica si Informatica, Univ. “Ovidius” Constanta, May 12 2007

20. Gherghina Cornel, **Gherghina Cristina**, Roșu Lucica, „*Metodă de determinare a conductivității hidraulice în solurile cu textură medie*”, Sesiunea științifică “150 de ani de învățământ superior agricol, U.S.A.M.V. București, 10 – 12 oct. 2002
21. Gherghina Cornel, **Gherghina Cristina**, Roșu Lucica, „*A method for determination of the hydraulic conductivity in soils of middle textural type*”, Analele Universității „Ovidius” Constanța, Anul V (2003), Seria: Construcții, Ovidius University Press, Constanța, pp. 71-74

✓ **Research grants**

1. *The modelling and the unitary numerical simulation of the knocking phenomenon in the pipe systems under pressure with protection means*, PN II, ID\_1219 (2008 -2011) member - director Assoc. Prof. Phd. eng. Ichinur Omer
2. *The modelling of precipitations in Dodrudgea*, PN II, ID\_262 (2007 - 2010) member -director Assoc. Prof. Phd Alina Bărbulescu
3. *The modeling and the optimization of circulation and storage of water in the active soil layer*, CNCSIS1071 (2005 – 2007) - director Assoc. Prof. Phd. eng. Carmen Maftei