

## PUBLICATII

### ✓ Articole publicate în volumele unor manifestări științifice:

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, pg.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, ISSN: 1109-2750, Issue 11, Volume 9, November 2010, pg.1245-1254
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, pg.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, 24-26 iunie Sibiu, Romania 2010, ISSN 2068-1046, pg. 346-352, indexat ISI Web of Science
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, pg. 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, pg. 590 – 595, indexed ISI, INSPEC, Elsevier, Zentralblatt, EI (Compendex),
8. Alina Barbulescu, **Cristina (Gherghina) Serban**, Carmen Maftai, “Evaluation of Hurst Exponent for Precipitation Time Series”, Proceedings of the 14th WSEAS International Conference on COMPUTERS, indexat ISI, INSPEC, Elsevier, Zentralblatt, EI (Compendex), 23-25 iulie Corfu, Grecia 2010

9. **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
10. 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, 23-25 iulie Corfu, Grecia 2010, indexat ISI, INSPEC, Elsevier, Zentralblatt, EI (Compendex)
11. 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), 3-6 mai Sousse, Tunisia 2010, indexat ISI, INSPEC, Elsevier, Zentralblatt, EI (Compendex),
12. **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), , pg. 131–148, ISSN 1224-1784, e-ISSN 1844 – 083518, revista cotata CNCSIS A, indexat SCIE-Thomson Reuters, [Mathematical Reviews](#), [Zentralblatt MATH](#)
13. **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, pg. 400-404, IEEE Computer Press (ISI Proceedings), ISBN 978-0-7695-3523-4, indexat IEE INSPEC, EI (Compendex), DBLP, Timisoara, Romania 2008
14. **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, Vol.2, pg.79-84, ISSN 1844-539X, revista cotata CNCSIS B+
15. Ichinur Omer, **Cristina Gherghina**, “*A Software Implementation Of Water Waves Propagation*”, Annals of Oradea Unversity, Fascicle of Management and Technological Engineering, Volume VII (XVII), pg. 485-4902008, revista cotata CNCSIS B+
16. Carmen Maftai, **Cristina Gherghina**, Alina Bărbulescu, „A computer program for statistical analyzes ofhydro - meteorological data”, International Journal Mathematical Manuscripts vol.1, no.1 (2007), pg. 95 – 103 (ISSN 0974 – 2883)
17. Maftai Carmen, **Gherghina Cristina**, Gelmambet S., Teodorescu D, “Study of reference evapotranspiration in Dobrogea region”, USAMV Iasi, seria Agronomie, pg.1005-1010, 2008, ISSN 1454-7376, categoria B+
18. 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, pg. 86-93, 2007, ISSN 1583 – 0691, revista cotata CNCSIS B+

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20. **Cristina Gherghina**, “*Servicii Web. Implementare cu BPEL4WS*”, Seminarul Stiintific de Comunicatii de Date si Sisteme Distribuite, Facultatea de Matematica si Informatica, Univ. “Ovidius” Constanta, 12 mai 2007
21. 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
22. 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, pg. 71-74

✓ **Proiecte de cercetare-dezvoltare pe baza de contract/grant**

1. “*Modelarea matematica si simularea numerica unitara a fenomenului de soc hidraulic (lovitura de berbec) in sistemele sub presiune de alimentare cu apa prevazute cu mijloace de protectie*”, Planul national de Cercetare, Dezvoltare si Inovare – PN II, Program IDEI, Cod CNCSIS: ID\_1219
  - Conf.univ.dr. ing. Ichinur Omer – director de grant
  - Colectiv: Mihai Florea, Dumitru Ion Arsenie, Claudiu Nitescu, **Cristina Gherghina**, Suschina Veronica
2. “*Modelarea precipitatiilor in Dobrogea*”, Planul National de Cercetare, Dezvoltare si Inovare - PN II Program: IDEI, Nr. Contract: 492/1.10.2007; cod CNCSIS: ID\_262
  - Conf.univ.dr. Alina Barbulescu – director de grant
  - Colectiv: Carmen Maftai, Elena Pelican, **Cristina Gherghina**, Dacian Constantin Teodorescu.
- 3 „*Modelarea și optimizarea circulației și înmagazinării apei în stratul activ de sol*”, Tema 3, Contract de cercetare științifică Cod CNCSIS 1071 din 2005, Beneficiar MEC București
  - Conf.univ.dr. Maftai Carmen – director de grant
  - Colectiv: Roșu Lucica, Arsenie Dumitru, Bărbulescu Alina, Buta Constantin, **Cristina Gherghina**, Adam Geanina, Dobre Mădălina, Efreem Valentina, Iordache Gheorghe, Mateiu Ștefania, Mihăescu Aura, Ioniță Alexandru.
4. „*Modelarea și optimizarea circulației și înmagazinării apei în stratul activ de sol*”, Tema 2, Contract de cercetare științifică Cod CNCSIS 1071 din 2006, Beneficiar MEC București

- Conf.univ.dr. Maftai Carmen – director de grant

- Colectiv: Roșu Lucica, Arsenie Dumitru, Bărbulescu Alina, Buta Constantin, **Cristina Gherghina**, Adam Geanina, Dobre Mădălina, Efreem Valentina, Iordache Gheorghe, Mateiu Ștefania, Mihăescu Aura, Ioniță Alexandru.