

## PERSONAL INFORMATION

## Daniela Cristiana Docan



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## PREFERRED JOB

GIS database modelling, QA&amp;QC for spatial datasets

## WORK EXPERIENCE

1 Oct 2001–Present

## lecturer

Technical University of Civil Engineering Bucharest, Faculty of Geodesy, Bucharest (Romania)  
[www.utcb.ro](http://www.utcb.ro)

1. Didactic activities (seminars, courses) and research activities
2. Technical work within Technical University of Civil Engineering Bucharest:
  - "Research for determining the spatial shape of big metal structures during the execution end exploitation" **2001/2002/2003**
  - "Determining the settlements for the supermarket building CORA Bucharest", **2003-2010**

4 Apr 2008–30 Oct 2010

## counselor

National Agency for Cadastre and Land Registration (NACLRL), Bucharest, Bucharest (Romania)  
[www.ancpi.ro](http://www.ancpi.ro)

1. Technical support for implementing INSPIRE Directive and for the members of The Council for Spatial Information Infrastructure (CINIS), Romania
  - presentations in the INSPIRE field of interest for the CINIS meetings;
  - member of the team who created the country report in 2010 for INSPIRE;  
<http://inspire.jrc.ec.europa.eu/index.cfm/pageid/182/list/indicators/y/2010/sel/2>
  - create the metadata for the data sets of National Agency for Cadastre and Land Registration according with the INSPIRE specifications.
2. Data quality contact point at national level for INSPIRE
  - Data Quality in INSPIRE: Balancing Legal Obligations with Technical Aspects  
[http://inspire.jrc.ec.europa.eu/documents/INSPIRE\\_/JRC83209\\_Online\\_Data\\_quality\\_in\\_INSPIRE.pdf](http://inspire.jrc.ec.europa.eu/documents/INSPIRE_/JRC83209_Online_Data_quality_in_INSPIRE.pdf)
3. Member of WP10 in ESDIN project (Eurogeographics).
  - appending the schema matching for national dataset TOPRO5 designed by ANCPIL during work activity for WorkPackage10 and WorkPackage P11 (ESDIN project)
4. Member of the workgroup that elaborated the standards and the technical specifications for the national topographic dataset at large scale "*Technical standards for the topographic dataset at 1:5,000 scale*".
  - create the logic and physic data model TOPRO5 in Geodatabase (ESRI) format according with the technical specifications;

1 Apr 2000–30 Jun 2007

## engineer

ESRI Romania, Bucharest (Romania)  
[www.esri.ro](http://www.esri.ro)

1. Technical support and training for the GIS department teams of state and private enterprises:
  - Romanian Aeronautical Authority
  - Institute of Hydroelectric Studies and Design
  - Petrom
  - Agency for Payments in *Agriculture* (Land Parcels Identification System in Romania)
2. Authorized instructor in ArcGIS by Environmental Systems Research Institute, Inc. (ESRI), Redlands, California, USA:
  - Introduction to ArcGIS I, version 9.0
  - Introduction to ArcGIS II, version 9.0
  - Building Geodatabase I, version 9.0
  - Cartography with ArcGIS, version 9.x
3. Creating, processing and administration of databases for digital map 1:100 000 (Romania) and cadastre map 1:2000 (Bucharest);
4. Training of the team that realized the Quality Data Control (QC) in 2007 with ArcGIS for Desktop and PLTS Review software, for the LPIS project (Land Parcels Identification System in Romania);

## EDUCATION AND TRAINING

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|------------------------|--|
| 1 Oct 1995–20 Jun 2000 | <p><b>Engineer surveyor, specialization Cadastre</b></p> <p>Technical University of Civil Engineering Bucharest, Faculty of Geodesy, Bucharest (Romania)</p>   |
| 1 Oct 2000–20 Jun 2001 | <p><b>Master - Geographic Information Systems (GIS)</b></p> <p>Technical University of Civil Engineering Bucharest, Faculty of Geodesy</p>   |
| 1 Oct 2003–20 Jun 2009 | <p><b>PhD in Science in Engineering (2009)</b></p> <p>Technical University of Civil Engineering Bucharest, Faculty of Geodesy</p> <p>Thesis: "Contributions to quality improvement of spatial data in GIS"</p>   |
| 1 May 2010–1 Oct 2012  | <p><b>CISCO CCNA</b></p> <p>CISCO authorized center</p> <ul style="list-style-type: none"> <li>▪ CISCO CCNA Exploration 1: Network Fundamentals</li> <li>▪ CISCO CCNA Exploration 2: Routing Protocols and Concepts</li> <li>▪ CISCO CCNA Exploration 3: LAN Switching and Wireless</li> </ul>   |
| 1 Sep 2010–16 Sep 2010 | <p><b>Schema matching, mapping and transformation for INSPIRE</b></p> <p>EuroSDR-Spatial Data Research, EduServ e-learning, Learning, Teaching &amp; Technology Centre, Dublin Institute of Technology, Ireland</p> <p>basic understanding of XML-based technologies for schema matching, mapping and transformation in the context of the INSPIRE implementation rules.</p> |
| 1 Oct 2010–30 Oct 2010 | <p><b>ArcGIS and Geodatabase concepts</b></p> <p>ESRI Romania</p> <ul style="list-style-type: none"> <li>▪ ArcGIS I: Getting started with ArcGIS</li> <li>▪ ArcGIS II: Tools and Functionality</li> <li>▪ ArcGIS III: Workflows and Analysis</li> </ul>  |

- Building Geodatabases
- Geodatabase design concepts

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B1	B1	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages

Communication skills Didactic skills and organizational skills in GIS projects

Job-related skills

Articles:

1. "Realizarea unor norme de cartografie digitală pentru planuri la scări mari 1:500, 1:1000, 1:2000 – necesitate stringentă a activității cartografice din România" ("Design of Digital Representation Procedures for the Large Scale Maps 1:500, 1:1000, 1:2000 - High Priority of the Romanian Cartographical Activity"), Dragomir, P. I., Badea, G., Vasilca, D., Badea, A. C., **Docan, D.**, Scientific Bulletin of Technical University of Bucharest, issue I no.3/2007, 39-47 pp, 2007.
2. "Consideratii privind rolul topografiei ingineresti in asigurarea calitatii geometriei in constructii " (Considerations on the role of topography in quality assurance engineering construction geometry), Dragomir P., **Docan D.**, Journal of Geodesy, Cartography and Cadastre-Papers presented at the Symposium on Land and Cadastral Measurements, volume 14, no1-2-188, page182, 2005.
3. "Methods of spatial information analysis in the framework of building The Integrated Administration and Control System in Romania", **pag.129-138 ,ISSN 1583-2279**, International Scientific Symposium "GeoCAD 2007", organized by the Department of Surveying, Faculty of Science Alba Iulia University, College of Geoinformatics of the University of West Hungary, Székesfehérvár and the Office of Cadastre , Alba Iulia, 2007.
4. "Adapted methods of Spatial Information Analysis Developed and Implemented in the Framework of IACS-LPIS Setup in Romania" DANUBE ADRIA ASSOCIATION FOR AUTOMATION & MANUFACTURING DAAAM INTERNATIONAL VIENNA, **Docan, D.C.**; Dana, I.; Badea, A.; Moise, C. & Badea, R. (2007)., *Annals of DAAAM for 2007 & Proceedings of the 18th International DAAAM Symposium, ISBN 3-901509-58-5, ISSN 1726-9679*, Editor B.Katalinic, Published by DAAAM International, Vienna, Austria, October 2007, 231-232 pp  
[http://apps.webofknowledge.com/full\\_record.do?product=UA&search\\_mode=GeneralSearch&qid=4&SID=R295CaxEkvyTzSXoRku&page=1&doc=1](http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=4&SID=R295CaxEkvyTzSXoRku&page=1&doc=1)
5. "Principles for Digital Representation Procedures of the Large Scale Maps", Dragomir, P. I., Badea, G., Vasilca, D., Badea, A. C., **Docan, D.** Symposium Oradea, 70-78 pp, 2007.
6. „Aspecte ale calității datelor spațiale în GIS" ("Aspects of spatial data quality in GIS"), Daniela **Docan**, page 23, Scientific Bulletin of UTCB No.3 of 2009
7. "Testing metadata compatibility", Daniela Cristiana **Docan**, Petre Dragomir, **ISSN 1583-2279**, International Scientific Symposium "GeoCAD2009", organized by the Department of Surveying, Faculty of Science University of Alba Iulia, College of Geoinformatics of the University of West Hungary, Székesfehérvár and the Office of Cadastre, Alba Iulia, 2009.
8. "A twinning experience in prototyping a NSDI in Romania", Jandirk Bulens, Marcel Schram, Gabriela Dragan, Daniela Cristiana **Docan**, Proceedings of GSDI-11 World Conference-**Spatial Data Infrastructure Convergence: Building SDI Bridges to Address Global Challenges**, Rotterdam, The Netherlands, 2009.
9. **Expozant poster:** "VeloGIS", Daniela Cristiana **DOCAN**, Alexandra **DUȚU**, The European Earth Monitoring Programme Copernicus: its benefits for the citizens of Eastern Europe, Bucharest, Romania, Palace of the Parliament, May 2013, <http://events.rosa->

[rc.ro/indico/internalPage.py?pagelId=0&confId=19](http://rc.ro/indico/internalPage.py?pagelId=0&confId=19)

10." *The pedaling of the local public authorities towards VeloCity* ", Alexandra **DUȚU**, Daniela Cristiana **DOCAN**, The VIII National Student Symposium IF-IM-CAD2013, April 19-20, 2013.

11." *Analysis of LiDAR elevation data in GIS*", Daniela **IORDAN**, Daniela Cristiana **DOCAN**, The VIII National Student Symposium IF-IM-CAD2013, April 19-20, 2013.

12." *Spatial data quality assessment in GIS*", Daniela Cristiana **DOCAN**, 1st European Conference of Geodesy & Geomatics Engineering (GENG '13), ID: 70711-115, October 8-10, 2013;

13." *Analysis of the polyline uncertainty in GIS* ", Daniela **IORDAN**, Daniela Cristiana **DOCAN**, 13th SGEM GeoConference on Informatics, Geoinformatics And Remote Sensing, SGEM2013 Conference Proceedings, ISBN 978-954-91818-9-0 / ISSN 1314-2704, Vol. 1, 645 - 652 pp, June 16-22, 2013, [http://apps.webofknowledge.com/full\\_record.do?product=UA&search\\_mode=GeneralSearch&qid=5&SID=T2uhsllldg1HYcK11sr1&page=1&doc=1](http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=5&SID=T2uhsllldg1HYcK11sr1&page=1&doc=1)

14. „*Quality assessment of digital terrain model derived from LIDAR*”, Daniela **IORDAN**, Daniela Cristiana **DOCAN** –14th SGEM GeoConference on Informatics, Geoinformatics and Remote Sensing, [www.sgem.org](http://www.sgem.org), SGEM2014 Conference Proceedings, ISBN 978-619-7105-12-4 / ISSN 1314-2704, Vol. 3, 793-798 pp, June 19-25, 2014,

<http://www.sgem.org/index.php/sgem-deadline/sgem-deadline-2/sgem-deadline-5>

## Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Independent user	Proficient user

[Digital competences - Self-assessment grid](#)

AutoCAD, ArcGIS for Desktop, Extension Data Review, FME Desktop (ETL basic), metadata editor CatMDEdit, HTML/CSS basic

## ADDITIONAL INFORMATION

### Technical Reviewer and Books

Technical Reviewer

**2011-2012**

Stefano Iacovella, Brian Youngblood "**GeoServer Beginner's Guide**" ISBN-13:978-1-84951-668-6, Packt Publishing, UK.

<http://packtlib.packtpub.com/library/9781849516686/pref03>

**2014**

Stefano Iacovella "*GeoServer Cookbook*" ISBN-13:978-1-78328-961-5, Packt Publishing, UK.

<https://www.packtpub.com/application-development/geoserver-cookbook>

**2013-2014**

**Expert evaluator** and Rapporteur for The National Plan for Research, Development and Innovation 2007- 2013 PN II, Partnerships Program Subprogram "Joint Applied Research Projects- PCCA2013", **Executive Agency for Higher Education, Research, Development and Innovation Funding**, [www.uefiscdi.gov.ro](http://www.uefiscdi.gov.ro)

**2014**

- **Rapporteur** -Panel Evaluation *Domain 3 – Environment* for The National Plan for Research, Development and Innovation 2007-2013 PN II, Partnerships Program Subprogram "Joint Applied Research Projects", Call 2013
- **Expert coordinator** - *Domain -Space and Security* for The National Plan for Research,

Development and Innovation 2007-2013 PN II, Partnerships Program, Call 2011.

#### 2015

- Expert evaluator for Eurostars-2 Joint Programme (EUREKA),  
<https://www.eurostars-eureka.eu/>
- Expert evaluator for National Authority for Scientific Research (ANCS),  
Call *Competitiveness Operational Programme Axis 1*, <http://www.research.ro/en>

#### Books

1. **Data Modelling and Topology** (*single-author, written in Romanian*), ISBN: 978-973-100-346-6, 100 pages, CONSPRESS, Technical University of Civil Engineering Bucharest, Romania, 2014

2. **Engineering Surveying Cookbook** (*Co-author, written in Romanian*), CONSPRESS, Bucharest, 396 pages, ISBN 978-973-100-326-9, 2014

<http://www.conspress.ro/index.php?option=articles&cntid=120>

3. **ArcGIS for Desktop Cookbook** (*single-author, written in English*), ISBN-13: 978-1-78355-950-3, 318 pages, Packt Publishing, Birmingham, UK, 2015, <https://www.packtpub.com/application-development/arcgis-desktop-cookbook>

4. **Learning ArcGIS for Desktop** (*single-author, written in English*), ISBN-13: 978-1-78217-579-7, 269 pages, Packt Publishing, Birmingham, UK, *Expected in March 2016*,  
<https://www.packtpub.com/application-development/learning-arcgis-desktop>