

Curriculum vitae

PERSONAL INFORMATION

Name	Caius DIDULESCU
Address	No 1, Tuzla street, postcode RO-023831, Bucharest, Romania
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Nationality	Romanian
Date of birth	19. 11. 1970

WORK EXPERIENCE

• Dates (from – to)	1996 – 2014
• Name and address of employer	Technical University of Civil Engineering, Bucharest (TUCEB) – Faculty of Geodesy, Bucharest, B-dul Lacul Tei no. 124, sector 2, RO-020396, Bucharest
• Type of business or sector	Education and training of students for Surveying and Mapping; Infographics for cadastral and land measurement; Hazard and Risk Maps; Spatial Data Acquisition with terrestrial multi sensors;
• Occupation or position held	Associate Professor at TUCEB.
• Main activities and responsibilities	Education, teaching and research activities

EDUCATION AND TRAINING

• Dates (from – to)	2011-2013
• Name and type of organization providing education and training	Technical University of Civil Engineering Bucharest, Faculty of Civil, Industrial and Agricultural Buildings, Teachers Training Department
• Principal subjects/occupational skills covered	Educational Management.
• Title of qualification awarded	Master's Degree in Educational Management
• Level in national classification (if appropriate)	Master Studies
• Dates (from – to)	1996 – 2003
• Name and type of organisation providing education and training	Technical University of Civil Engineering, Bucharest
• Principal subjects/occupational skills covered	Setting up the doctoral dissertation: <i>Some contributions in achievement of numerical cadastral plans.</i>
• Title of qualification awarded	Doctor in civil engineering – specialization Geodesy
• Level in national classification (if appropriate)	Doctor of technical science

• Dates (from – to)	1999
• Name and type of organisation providing education and training	University of Hannover Germany, Geodätisches Institut
• Principal subjects/occupational skills covered	Training in achievement of digital cadastral plans
• Dates (from – to)	1993 – 1998
• Name and type of organisation providing education and training	Bucharest University of Economic Studies, Faculty of International Business and Economics
• Principal subjects/occupational skills covered	Economic studies
• Title of qualification awarded	Economist
• Level in national classification (if appropriate)	Economist
• Dates (from – to)	1995 – 1996
• Name and type of organisation providing education and training	Technical University of Civil Engineering, Bucharest, Faculty of Geodesy
• Principal subjects/occupational skills covered	Geodetic Information Systems, Global Positioning System.
• Title of qualification awarded	Master's Degree in Territorial Information Systems
• Level in national classification (if appropriate)	Master Studies
• Dates (from – to)	1990 – 1995
• Name and type of organisation providing education and training	Technical University of Civil Engineering, Bucharest, Faculty of Geodesy
• Principal subjects/occupational skills covered	Diploma thesis
• Title of qualification awarded	Engineer
• Level in national classification (if appropriate)	Engineer
PERSONAL SKILLS AND COMPETENCES <i>Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas</i>	• Experience acquisition in automation of surveying works • Experience acquisition in GPS Techniques for geodetic, surveying and mapping applications;
OTHER LANGUAGES	ENGLISH
• Reading skills	Excellent
• Writing skills	Excellent
• Verbal skills	Good

• Reading skills • Writing skills • Verbal skills	French Good Good Good
SOCIAL SKILLS AND COMPETENCES <i>Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.</i>	• since 1996 - member of Union of Romanian Geodesy. • since 2007 – member of the “Order of Romanian Geodesists” • since 2007 - member of Editorial Board of Scientific Bulletin of the Technical University of Civil Engineering Bucharest. • since 2012- member of Romanian Society of Photogrammetry and Remote Sensing;
ORGANISATIONAL SKILLS AND COMPETENCES <i>Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.</i>	• since 2000, Authorized Person to execute and verify works in the field of Cadastre, Geodesy and Cartography by the National Agency for Cadastre and Land Registration • since 2007 Authorized Person by Order of Romanian Geodesists • since 2010 – Authorised by the Ministry of Justice as a technical judicial expert in the field of surveying geodesy and cadastre
TECHNICAL SKILLS AND COMPETENCES <i>With computers, specific kinds of equipment, machinery, etc.</i>	Computer competences: • Operation Systems: Microsoft WINDOWS; • Editors MS Office; • Textual databases: Microsoft Access, Oracle • Graphical databases: AutoCAD, CAD Overlay, Raster Design, AutoCAD Land Desktop • Programming Languages: AutoLISP, Visual LISP, SQL. Communication by: • Internet (ftp, http, www) • GSM, radio
ARTISTIC SKILLS AND COMPETENCES <i>Music, writing, design, etc.</i>	-
OTHER SKILLS AND COMPETENCES <i>Competences not mentioned above.</i>	- Fishing.
DRIVING LICENCE(S)	Yes, from 1996
ADDITIONAL INFORMATION	

Data: March 2014

LIST OF SELECTED AND RELEVANT WORKS

Assoc. prof. univ.dr.ing. Caius DIDULESCU

A. SCIENTIFIC, TECHNICAL AND ACADEMIC BOOKS

Aa. Printed Books with ISBN (International Standard Book Number) at Central Publishers

- Aa1. **Didulescu Caius, Săvulescu Constantin - Informatics systems of cadastral records-Vol . II – Publisher Conspress Bucharest 2004, ISBN 973-7797-05-1;**
- Aa2. **Didulescu Caius - Infographics for cadastral and land measurement Publisher Conspress Bucharest 2009, ISBN 978-973-100-091-6;**
- Aa3. **Didulescu Caius, Badea Ana Cornelia, Savu Adrian, Aurel Negrilă, Andreea Florentina Jocea, Badea Dragoș– Topographic practice notebook, Publisher Conspress Bucharest 2011, ISBN 978-973-100-170-8**

B. TECHNICAL MANUALS, GUIDELINES, GUIDES

Ba. Technical Manuals with Technological and Control Instructions

- Ba1. **Didulescu Caius, Badea Ana Cornelia, Savu Adrian, Aurel Negrilă, Andreea Florentina Jocea, Badea Dragoș– Topographic practice notebook, Publisher Conspress Bucharest 2011, ISBN 978-973-100-170-8**

C. ARTICLES AND STUDIES

Ca – Main articles published in specialized journals

- Ca1. **Savu Adrian, Didulescu Caius, Badea Ana Cornelia, Badea Gheorghe – „Laser Scanning Airborne Systems - a New Step in Engineering Surveying.”, Sustainability in Science Engineering, Proceedings of the 11th WEAS International Conference on Sustainability in Science Engineering, Volume 1, ISSN 1790-2769, ISSN: 978-960-474-080-2, Timișoara, Romania, Included in ISI/SCI Web of Science and Web of Knowledge, pag 224-229, 2009.**
- Ca2. **Gabriel Bădescu, Ovidiu Ștefan, Rodica Bădescu, Gheorghe Badea, Ana-Cornelia Badea, Didulescu Caius – „Air-borne Photogrammetric Systems Used in Topographic and Cadastral Works in Romania”, Recent Advances in Remote Sensing, Proceedings of the 5th WEAS International Conference on Remote Sensing (Remote '09), WSEAS Press, ISSN: 1790-2769, ISBN: 978-960-474-129-8, Genova, Italy, Included in ISI/SCI Web of Science and Web of Knowledge, pag. 22-26, 2009.**
- Ca3. **Ovidiu Ștefan, Gabriel Bădescu, Rodica Bădescu, Gheorghe Badea, Ana-Cornelia Badea, Didulescu Caius – „GIS Applications on the Field of the Maramures Subterranean Mining Exploitations”, Recent Advances in Remote Sensing, Proceedings of the 5th WEAS International Conference on Remote Sensing (Remote '09), Genova, Italy, WSEAS Press, ISSN: 1790-2769, ISBN: 978-960-474-129-8, pag. 27-32, 2009.**

- Ca4. *Badescu Rodica, Badescu Gabriel, Stefan Ovidiu, **Didulescu Caius**, Badea Gheorghe, Badea Ana Cornelia - „Positioning System GPS and RTK VRS type, using the Internet as a base, a network of multiple stations” Mechanical, Industrial, and Manufacturing Engineering Book Series: Lecture Notes in Information Technology, Melbourne, Australia, pag. 548-551, 2011*
- Ca5. *Bădescu Gabriel, Bădescu Rodica, Stefan Ovidiu, **Didulescu Caius**, Veres Ioel Samuel, Păunescu Cornel- „Studies and research on the use of Virtual Reference Station (VRS) and Precise Point Positioning (PPP) GPS in Romania” Mechanical, Industrial, and Manufacturing Engineering Book Series: Lecture Notes in Information Technology, Melbourne, Australia, pag. 414-417, 2011*
- Ca6. *Savu Adrian, **Didulescu Caius**, Badea Ana Cornelia, Badea Gheorghe, Bădescu Gabriel – „Measurements in dynamic system of railway tunnels” Recent Researches in Manufacturing Engineering Proceedings of the 3rd WSEAS International Conference on Manufacturing Engineering, Quality and Production Systems (MEQAPS '11), Braşov, Romania, WSEAS Press, ISBN: 978-960-474-294-3, pag. 147-151, 2011*
- Ca7. ***Didulescu Caius**, Savu Adrian, Badea Ana Cornelia, Badea Gheorghe, Bădescu Gabriel – „Modeling and Visualization Objects from Point Cloud Data Surveyed With Terrestrial Laser Scanner” Recent Researches in Manufacturing Engineering Proceedings of the 3rd WSEAS International Conference on Manufacturing Engineering, Quality and Production Systems (MEQAPS '11), Braşov, Romania, WSEAS Press, ISBN: 978-960-474-294-3, pag. 193-198, 2011.*
- Ca8. *Badea Ana Cornelia, Badea Gheorghe, **Didulescu Caius**, Savu Adrian, Bădescu Gabriel – „Some Features of Project Management Using Dedicated Software in the Land Surveying Works” Mathematics & Computers in Biology, Business & Acoustics Proceedings of the 12th WSEAS International Conference on Mathematics and Computers in Business, pag. 76-81, 2011*
- Ca9. ***Didulescu Caius**, Savu Adrian, Badea Ana Cornelia, Badea Gheorghe – „Using 3D terrestrial laser scanning technology to obtain 3D deliverables” Advanced Science Letters, American Scientific Publishers, Vol. 19, Number 1, pag 70-74, Adv. Sci. Lett. 19, 70-74 (2013), ISSN: 1936-6612 (Print): EISSN: 1936-7317 (Online) <http://www.aspbs.com/science.htm>, 2013*
- Ca10. ***Didulescu Caius** “Programs for Automatic Calculation of Volumes in Land Surveys”, Annals of University of Oradea”, „Constructions and Hydro-Utility Installations Fascicle”, Volume XII, ISSN: 1454-4067, University of Oradea Publishing House, pag. 365-376, 2009.*
- Ca11. *Andreea-Florina Joca, **Didulescu Caius** „Theoretical and Applied Aspects on 3D Measurements Using Terrestrial Laser Scanning”, Annals of University of Oradea”, „Constructions and Hydro-Utility Installations Fascicle”, Volume XII, ISSN: 1454-4067, University of Oradea Publishing House, pag. 465-472, 2009.*
- Ca12. ***Didulescu Caius**, Andreea-Florina Joca „Data Components Handling of a Graphical Cadastral Database Using the Visual Lisp Program”, Annals of University of Oradea”, „Constructions and Hydro-Utility Installations Fascicle”, Volume XII, ISSN: 1454-4067, University of Oradea Publishing House, pag. 577-578, 2009.*

- Ca13. **Didulescu Caius** „**Interactive Vectorization – a Useful Tool in Creating Digital Maps**”, *Annals of University of Oradea*”, „*Constructions and Hydro-Utility Installations Fascicle*”, Volume XIII, ISSN: 1454-4067, University of Oradea Publishing House, pag.151-158, 2010.
- Ca14. **Didulescu Caius** „**Automation of Cadastral Works Using Visual LISP Routines**”, *Annals of University of Oradea*”, „*Constructions and Hydro-Utility Installations Fascicle*”, Volume XIII-2, ISSN: 1454-4067, University of Oradea Publishing House, pag.93-98, 2010.
- Ca15. Coșarcă Constantin, Johan Neuner, **Didulescu Caius**: „**Using modern techniques of measurement to inventory historic sites**”, *RevCAD* nr. 5, University „1 Decembrie 1918” Alba Iulia, ISSN 1583 – 2279, pag. 161-170, 2005
- Ca16. **Didulescu Caius**, Brișan Marcel Costel: „**Field data collection with total station using a coding system as an alternative of graphical representation programs**”, *RevCAD* nr. 5, Alba Iulia, ISSN 1583 – 2279, pag.261-270, 2005.
- Ca17. Brișan Marcel Costel, **Didulescu Caius**: „**Using electronic sensors in industrial topo-geodetic measurements**”, *RevCAD* nr. 5, Alba Iulia, ISSN 1583 – 2279, pag. 193-202, 2005
- Ca18. Gabriel Bădescu, Maricel Palamariu, **Didulescu Caius** – „**Comparative study regarding the measurements using GPS and total station technology in unincorporated area of Trajan's in Constanta country**” *RevCAD* nr. 7, Alba Iulia, pag. 73-80, 2007
- Ca19. **Didulescu Caius**, Adrian Savu – “**Study on the use of dem to the achievement of risk and hazard maps**”, *Geographia Napocensis Journal*, V Year, nr. 1, 2011, Romanian Academy, <http://geographianapocensis.acad-cluj.ro/>
- Ca20. Savu Adrian, **Didulescu Caius**, – „**3D modelling using laser scanning technique**”, *Journal of Applied Engineering Sciences*, Volume 1 (16). Issue 1, University of Oradea Publishing House, pag. 119-124, 2013.
- Ca21. **Didulescu Caius**, Adrian Savu – „**Aspects of volume calculation**” *Journal of Applied Engineering Sciences*, Volume 1 (16). Issue 1, University of Oradea Publishing House, pag. 31-34, 2013.
- Ca22. Constantin Coșarcă, **Didulescu Caius**, Adrian Savu, Aurel Sărăcin, Gheorghe Badea, Ana Cornelia Badea, Aurel Negrilă - „**Mathematical Models Used in Processing Measurements Made By Terrestrial Laser Scanning Technology**”, *Proceedings of the 2013 International Conference on Applied Mathematics and Computational Methods in Engineering (AMCME 2013)*, Rhodes Island, Greece, pag. 184-188, 2013.
- Ca23. Savu Adrian, **Didulescu Caius**, - “**Processing, analysis and interpretation softwares used for laser scanning. comparative study**”, *RevCAD, Journal of Geodesy and Cadastre*, No. 14, 2013, pag. 161 – 168.
- Ca24. Constantin Cosarca, Paul Daniel Dumitru, Adrian Savu, Aurel Negrilă, Alexandru Călin Aurel Saracin, **Caius Didulescu**, “**Geodesic technical assistance for hazard and flood risk maps in hydrographic space Prut – Barlad**”, *RevCAD, Journal of Geodesy and Cadastre*, No. 15, 2013, pag. 311 – 325

Ca25. Savu Adrian, Onose Dumitru, Coșarcă Constantin, **Caius Didulescu**, Aurel Negrilă **“Terrestrial laser scanning of the hydrotechnical objectives in hydrographic space Dobrogea - Litoral”**, RevCAD, Journal of Geodesy and Cadastre, No. 15, 2013, pag. 271 – 278

Ca26. **Didulescu Caius**, Adrian Savu, Coșarcă Constantin, Negrilă Aurel, **“Modelling a hydrographic basin using geospatial data”**, RevCAD, Journal of Geodesy and Cadastre, No. 15, 2013, pag. 75 – 84

Cb – Main studies and papers published in the proceedings of national and international scientific recognized events (ISSN or ISBN)

Cb1. **„Field data collection with total station using a coding system as an alternative of graphical representation programs”**, International Scientific Symposium "GeoCAD'05", Alba Iulia, 2005

Cb2. **„Query optimization techniques on a textual cadastral database using SQL language”**, International Scientific Symposium "GeoCAD'07", Alba Iulia, 2007

Cb3. **“Programs for Automatic Calculation of Volumes in Land Surveys”**, National Technical - Scientific Conference (with international participation) "Modern technologies for the third millennium", Oradea, 2009

Cb4. **“A Study Concerning the Possibility of Apply Different Queries on Textual Cadastral Database”** International Scientific Symposium "GeoCAD'09", Alba Iulia, 2009

Cb5. **“The 3D Urban Model, a New Tool in Support of Urban Planning”**, International Scientific Symposium "GeoCAD'10", Alba Iulia, 2010.

Cb6. **„Interactive Vectorization – a Useful Tool in Creating Digital Maps”**, National Technical - Scientific Conference (with international participation) "Modern technologies for the third millennium", Oradea, 2010

Cb7. **„Automation of Cadastral Works Using Visual LISP Routines”**, National Technical - Scientific Conference (with international participation) "Modern technologies for the third millennium", Oradea, 2010

Cb8. **“Automation of cadastral plans for the location and delimitation of properties in Romania using AutoLISP routines”**, International Symposium ‘GeoPreVi’ of Faculty of Geodesy, Bucharest, 2011

Cb9. **„Modeling and Visualization Objects from Point Cloud Data Surveyed With Terrestrial Laser Scanner”** International Symposium WEAS, International Conference on Sustainability in Science Engineering, Braşov, 2011

Cb10. **„Some aspects regarding the implementation of the integrated system on cadastre and real estate publicity e-Terra”** International Scientific Symposium "GeoCAD'12", Alba Iulia, 2012

D. RESEARCH PROJECTS - DEVELOPMENT - INNOVATION, BASED ON CONTRACTS

Da. Research papers - carried on contracts - as project manager

Da1. *Measurement techniques and three-dimensional positioning*, Contract Nr. 152/2006

Eb. Research papers - carried on contracts - as participant

Eb1. *„Land valuation training”*; Leonardo da Vinci project nr.: RO/05/B/P/PP175018;

Eb2. *“Online university collaboration network in order to develop the capacity to provide superior skills in geodesy”* POSDRU/86/1.2/S/63140 „

Eb3. *Topo-hydrographic smart system to improve river navigation in the Romanian Danube acronym SITRAD* ANCS - Program Complex Projects, grant agreement nr. CEEX-X1-C11/P1-P3/2005;

Eb4. *System for data transmission and reception of differential corrections, interface for GALILEO - acronym GPSED*, Program: Research of excellence, grant agreement nr. CEEX-M1-C2-1451/2006;

Eb5. *Techniques, technologies and ontologies for data portals and spatial data services - acronym TITOS*, CEEX-M1-C2-6869/2006, grant agreement nr.128/2006;

Eb6. *“Study regarding the support network for cadastral works for municipalities using global positioning systems by observing satellites, compared to methods using conventional”*, Research contract TUCEB 1996

Eb7. *“Study regarding the support network for cadastral works for municipalities using global positioning systems by observing satellites "in the phase II entitled" Completion and drafting methodology for network support cadastral works using GPS*, Research contract TUCEB 1997

Eb8. *“Achievement planimetric and altimetric network support for introduction of cadastral works required in Arad using GPS technology”*, Research contract TUCEB 1999.

Eb9. *Capacity, specific applications and infrastructure for GNSS-Galileo acronym BANG*, Program: Research of excellence, grant agreement nr. CEEX-MI-C2-460/2006;

Eb10. *Achievement of Hazard and Risk Maps for Prut- Bârlad River Basin* – Research contract nr.113/2011

Eb11. *Achievement of Hazard and Risk Maps for Dobrogea Seaside River Basin* – Research contract nr. 74/2012

Eb12. *„Danube water integrated management”*, Research contract nr. 43555/2012

F. OTHER WORKS - COURSE MATERIALS

- F1. Digital Course support "**Hazard and Risk Maps**"– *Technical University of Civil Engineering Bucharest, (134 pages);*
- F2. Digital Course support „**Spatial Data Acquisition with terrestrial multi sensors**” – *Technical University of Civil Engineering Bucharest, (120 pages);*

G. PhD THESIS

- G1. **Some contributions in achievement of numerical cadastral plans** - *Technical University of Civil Engineering Bucharest 2003;*