

Publication List - Dr. ing. Constantin Radu Gogu

a) Relevant publications

A new spatial multi-criteria decision support tool for site selection for implementation of managed aquifer recharge (2012), M.A. Rahman, B. Rustenberg, R.C. Gogu, J.P. Lobo Ferreira, M. Sauter, *Journal of Environmental Management*, ed. Elsevier vol. 99, pp. 61-75, Mai 2012

Sedimentary media analysis platform for groundwater modeling in urban areas (2011) R.Gogu, V. Velasco, E. Vazquez-Sune, D. Gaitanaru, Z. Chitu, I. Bica; *Environmental Earth Sciences – Advances in the Research of Aquatic Environment*, Vol 2, Springer - Verlag, ISBN -978-3-642-24076-8, DOI 10.1007/978-3-642-24076-8, Berlin;

Modular Web-Based Atlas Information System (2007) Bernhard J., Terribilini A., Freimark H., Gogu C.R., Hurni L., Dietrich V; *Cartographica – The international journal for geographic information and geovisualisation*, University of Toronto Press, Canada, V 41-3, p. 247-256, 2007;

Web Based Information System for Natural Hazard Analysis in an Alpine Valley (2006), Constantin R. Gogu, Helen Freimark, Boris Stern, Lorenz Hurni, In: P. van Oosterom et al.(editors), *Geo-information for Disaster Management*, Berlin Heidelberg New York: Springer, p. 1271-1281;

A geo-spatial data management system for potentially active volcanoes-GEOWARN project, (2006) - Radu C. Gogu, Volker J. Dietrich, Bernhard Jenny, Florian M. Schwandner, Lorenz Hurni; *Computer & Geosciences*, Elsevier, Canada, v. 32/1, pp. 29-41;

Remote sensing of landslides: an analysis of the potential contribution to geo-spatial systems for hazard assessment in mountainous environments (2005), Graciela Metternicht, Lorenz Hurni, Radu Gogu, *Remote Sensing of Environment*, Elsevier, Canada, v. 98/2-3, pp. 284 – 303;

Comparison between vulnerability assessment techniques. Application to the Néblon river basin (Belgium) (2003), Radu Constantin Gogu, Vincent Hallet, and Alain Dassargues; *Environmental Geology - International Journal of Geosciences*, Springer - Verlag, Germany v.44 (8), pp.881-892;

GIS based hydrogeological databases and groundwater modeling, (2001); Radu Constantin Gogu, Guy Carabin, Vincent Hallet, Valerie Peters, and Alain Dassargues; *Hydrogeology Journal - Journal of the International Association of Hydrogeologists*, Springer - Verlag, Germany , v.9, Issue 6, pp.555-569;

Current trends and future challenges in groundwater vulnerability assessment using overlay and index methods (2000), Radu Constantin Gogu, Alain Dassargues; *Environmental Geology - International Journal of Geosciences*, Springer - Verlag, Germany, v.39 (6), pp.549-559;

Sensitivity analysis for the EPIK vulnerability assessment in a small karstic aquifer (2000); Radu Constantin GOGU, Alain DASSARGUES; *Hydrogeology Journal - Journal of the International Association of Hydrogeologists*, Springer - Verlag, Germany, v.8, Issue 3, pp.337-345;

b) PhD Thesis

2001 - "*Advances in groundwater protection strategy Using vulnerability mapping and hydrogeological GIS databases*" [in English] - PhD in Applied Sciences, Laboratory of Engineering Geology, Hydrogeology and Geophysical Prospecting (LGIH), University of Liege, Belgium

d) Books and chapters in books

A Point of view regarding Web Services-based Infrastructure for Geospatial Information (2012), Angela Ioniță, Adrian Zafiu, Radu Constantin Gogu, Marius Enache, Distributed Generation systems integrating Renewable Energy Resources, 3 chapters, N. Bizon (ed.), Nova Science Publishers Inc., 978-1-61209-991-0 (hardcover), 978-1-61209-991-2 (ebook), 2012, USA

Geo-portal system for natural hazard assessment studies for torrent streams and debris flow - Radu C. Gogu, Helen Freimark, Boris Stern, Lorenz Hurni, Geoinformation for Disaster Management, In: Peter van Oosterom, Siyka Zlatanova, Elfriede M. Fendel Eds., Springer, **2005**, pp.1271-1281.

Chapter 7.3 Data processing using GIS (2004), - Radu Constantin Gogu, Lorenz Hurni, Dirk De Ketelaere, James Petch; In: Zwahlen F (ed.), *Vulnerability and risk mapping for the protection of carbonate (karst) aquifers*, European Commission - Directorate-general for Research, COST Action 620 - Final report, Brussels, Belgium, EUR 20912, 2003, pp.125-131.

Urban Ecology, (1997), Radu Constantin GOGU, Tudor BOTZAN, Angelica NECULA; *Ed. Technical University of Civil Engineering- Bucharest*, Romania, 82 pages.

Urban Hydrology (1997), Tudor BOTZAN, Radu Constantin GOGU, Angelica NECULA; *Ed. Technical University of Civil Engineering- Bucharest*, Romania, 50 pages.

e) Articles/researches in extenso, published in international scientific journals;

A New Spatial Multi-Criteria Decision Support Tool for Site Selection for Implementation of Managed Aquifer Recharge (2012) Rahman, Mohammad Azizur; B. Rusteberg; R. Constantin Gogu; J.P. Lobo Ferreira; M. Sauter, *Journal of Environmental management*, Elsevier, vol. 99, pp. 61-75, Mai 2012

Sedimentary media analysis platform for groundwater modeling in urban areas (2011) R.Gogu, V. Velasco, E. Vazquez-Sune, D. Gaitanaru, Z. Chitu, I. Bica; *Environmental Earth Sciences – Advances in the Research of Aquatic Environment*, Vol 2, Springer - Verlag, ISBN -978-3-642-24076-8, DOI 10.1007/978-3-642-24076-8, Berlin;

Modular Web-Based Atlas Information Systems, An application to an early warning system for volcanoes (GEOWARN) - (2007), Bernhard Jenny, Andrea Terribilini, Helen Freimark, Radu Gogu, Lorenz Hurni, Volker Dietrich; *Cartographica – The international journal for geographic information and geovisualisation*, University of Toronto Press, Vol. 41-3, pp. 247-256 Canada.

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GEOWARN: Ein Internet-basiertes Multimedia-Atlas-Informationssystem für vulkanologische Anwendungen (2004), Lorenz Hurni, Bernhard Jenny, Andrea Terribilini, Helen Freimark, Florian M. Schwandner, Radu C. Gogu, Volker J. Dietrich - *Kartographische Nachrichten* (in German), vol. 54, Issue 2, pp. 67-72, April 2004,.

Comparison between vulnerability assessment techniques. Application to the Néblon river basin (Belgium) (2003), Radu Constantin Gogu, Vincent Hallet, and Alain Dassargues; *Environmental Geology - International Journal of Geosciences*, Springer - Verlag, Germany v.44 (8), pp.881-892, November 2003.

GIS based hydrogeological databases and groundwater modelling (2001), Radu Constantin Gogu, Guy Carabin, Vincent Hallet, Valerie Peters, and Alain Dassargues; *Hydrogeology Journal - Journal of the*

International Association of Hydrogeologists, Springer - Verlag, Germany , v.9, Issue 6, pp.555-569, December 2001

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Current trends and future challenges in groundwater vulnerability assessment using overlay and index methods (2000), Radu Constantin Gogu, Alain Dassargues; *Environmental Geology - International Journal of Geosciences*, Springer - Verlag, Germany, vol. 39 (6) , pp.549-559, April 2000.

f) In extenso publications, for papers published in international scientific conferences

Improving groundwater modeling of sedimentary media using GIS based 3D geological tools (2010), Velasco V, Gogu R, Garriga A, Monfort D, Vazquez-Suñé E, Ramos E, Carrera J (2010), 11-14 October 2010, Congress GeoDarmstadt2010, Darmstadt, Germany

Climate changes in relation to phreatic aquifers vulnerability assessment. A study case on Bega- Timis region, Romania (2010), Emil Radu, Dragos Gaitanaru, Marin-Nelu Minciuna, Ada, Pandele, Radu Gogu, Catalina Radu , 20–23 September 2010, HydroPredict 2010 – International Interdisciplinary Conference on Predictions for Hydrology, Ecology and Water Resources Management, Praga, Czech Republic.

Sedimentary Media GIS Based Software Platform to Improve Groundwater Modeling (2010), Radu Constantin Gogu, Violeta Velasco, Angela Ionita, Enric Vazquez-Sune, International Multidisciplinary Scientific GeoConference-SGEM, Volume 1, pp. 281-289, ISBN-954918181-2. Albena, Bulgaria.

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Modeling the effects of the groundwater during the tunneling with tunnel Boring Machine: the Sant Cosme Study case (Barcelona, Spain), (2009) Jordi Font-Capó, Daniel Monfort, Enric Vázquez-Suñé, Jesús Carrera, Marco Barahona, Estanislao Pujades, Violeta Velasco, Radu Gogu EURO:TUN 2009; 2nd International Conference on Computational Methods in Tunnelling, Ruhr University Bochum, 9-11 September 2009, *Aedificatio Publishers*, 4- 11

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Integrated study for the simulation of the tunnelling process in sedimentary media (2009), Radu Constantin Gogu, Enric Vázquez – Suñe, Jordi Font-Capo, Daniel Monfort, Violeta Velasco, Jesús Carrera. “Water and infrastructures of underground media” (November 24-26, 2008), Barcelona, Spain., AIH-GE, IGME.

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The Gabardine Decision Support System for Aquifer Artificial Recharge Planning and Management (2008), B. Rusteberg, M.A. Rahman, J. Bear, J. Bensabat, S. Brouyère, P. Wojda, R.C. Gogu, H. Power, Maribor Conference, Slovenia.

GIS-based Data Management and Decision Support System for artificial recharge planning in semi-arid regions (2008), Wojda, P., Gogu R., Brouyère S., Rusteberg, B., Third international Conference BALWOIS 2008, Ohrid, FYROM Macedonia.

Overview on Geo 3D Project Improvement of the TBM tunneling process by using real time information (2008), Hydrogeology Group, Technical University of Barcelona (UPC, 6 November, 2008), Barcelona, Spain.

Cartographic Functionalities for Risk Management (2007), I. Iosifescu-Enescu, R. Gogu, A. Neumann, L. Hurni, International Symposium on Environmental Software Systems (May 21, 2007), Prague, Czech Republic.

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g) Other papers and scientific contributions

Geospatial Data Management Platform for Urban Groundwater (2012) D. Găitănar, A. Priceputu, C.R. Gogu, M.A. Boukhemacha - Geophysical Research Abstracts Vol. 14, EGU2012-10174, EGU General Assembly 2012

Quantitative assessment of the groundwater-sewer network interaction in Bucharest city (Romania) (2012), M.A. Boukhemacha, A. Diaconescu, I. Bica, C.R. Gogu, D. Găitănar - Geophysical Research Abstracts Vol. 14, EGU2012-10464, EGU General Assembly 2012

3D geological model developed to analyse the aquifer - sewer network interaction in Bucharest city (2012) - I. Serpescu, E. Radu, R.G. Gogu, A. Priceputu, M.A. Boukhemacha, I. Bica, D. Găitănar - Geophysical Research Abstracts Vol. 14, EGU2012-11518, EGU General Assembly 2012

Quantitative and qualitative assessment of the groundwater system behavior to support Brownfield regeneration of Hunedoara (Romania) former steel production site (2012) R. Gogu, D. Găitănar, O. Ciugulea, M.A. Boukhemacha, I. Bica; Geophysical Research Abstracts Vol. 14, EGU2012-11316, EGU General Assembly 2012

Software platform for geo-spatial groundwater data management in urban areas (2012)

Ș. D. Găitănar, C.R. Gogu, L. Anghel, A. Priceputu, M.A. Boukhemacha, I. Bica, A. Ioniță; International Conference "Totul pentru o apă curată", 3rd Edition, 17-18 May 2012, Pitești, Romania

Quantitative assessment of the groundwater-sewer network interaction in Bucharest city (Romania) (2012); A.G. Diaconescu, M.A. Boukhemacha, C.R. Gogu, I. Bica; International Conference "Totul pentru o apă curată", 3rd Edition, 17-18 May 2012, Pitești, Romania

Spatial Multi-criteria Decision Support for Site Suitability Mapping with Regards to Artificial Recharge Projects (2010), Rahman, Mohammad Azizur; B. Rusteberg; R. Constantin Gogu; J.P. Lobo Ferreira; M. Sauter, The 7th Annual International Symposium on Managed Aquifer Recharge (ISMAR), 9 - 13 October 2010, (www.ismar7.org), Abu Dhabi

Groundwater resources mapping and evaluation for a sustainable management – objectives and achievements (2010), Emil Radu , Dragoş Gaitanaru, Radu Gogu , Ada Pandeale, Marin-Nelu Minciuna, Cătălina Radu, Jubilee scientific session, 85 years since the funding of the Romanian Hydrology Institute: Challenges 2025 For the sustainable development of water resources, Institutul National de Hidrologie si Gospodarie a apelor, 28 – 30 Septembrie 2010, Bucuresti

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Sedimentary media modeling platform for data integration in order to develop a 3D hydrogeological model (2010), Radu Constantin Gogu, Violeta Velasco, Adria Garriga, Daniel Monfort, Enric Vázquez-Suñe, Jesús Carrera, Emilio Ramos, ROMAQUA, Ed. Asociatia Romana a Apei, pp. 22-31, Vol 2, 2010, ISSN – 1453-6986, Bucharest, Romania

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Integrated platform of groundwater monitoring and analysis (2009), Radu Gogu – Communication in the workshop: well drilling and extraction of oil and natural gas – Environmental Protection Technologies, 12 – 13 November 2009, Grand Hotel Complex Perla Ciucasului, Tarjungeni, County Brasov, Romania

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Modelling aspects of flow and hydrocarbon miscible contaminant transport in the alluvial cone Prahova-Teleajen (1997), Ada PANDELE, Radu Constantin GOGU, Radu DROBOT; *The 4th "International Conference on Boundary and Finite Element - ELFIN 4"* , pp. 48-57, 4-6 June 1997, Iasi, Romania.

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Dr. Eng. Constantin Radu Gogu