

Publications Philippe De Maeyer

(A) PUBLICATIONS IN JOURNALS

(A1) International peer-reviewed journals, included in the ISI Web of Science

accepted and in print:

Neutens, T., Delafontaine, M., Scott, D. M., De Maeyer, P., 2012, An analysis of day-to-day variations in individual space-time accessibility. *Journal of Transport Geography* (in press). (IF: 1.421 16/67)

De Coene, K., Ongena, T., Stragier, F., Vervust, S., Bracke, W., De Maeyer, Ph., 2011. Ferraris, The Legend. *Cartographic Journal* (accepted for publication)

Ooms, K., De Maeyer, P., Veerle F., Van Assche E., Witlox F., 20xx, Interpreting Maps Through the Eyes of Expert and Novice Users, *International Journal of Geographical Information Science* (accepted for publication November 2011).

Kellens, W., Neutens, T., Deckers, P., Reyns, J., De Maeyer, Ph. 2011. Coastal flood risks and seasonal tourism: Analysing the effects of tourism dynamics on casualty calculations. *Natural Hazards* (IF: 1.398, 28/76, in press - doi: 10.1007/s11069- 011-9905-6).

published:

Ooms, K., Andrienko, G., Andrienko, N., De Maeyer, P. & Fack, V., 2012. Analysing the spatial dimension of eye movement data using a visual analytic approach *Expert Systems with Applications*, 39, 1324-1331. (Impact factor: 1.926 for 2010)

De Reu, J., Bourgeois, J., De Smedt, P., Zwertvaegher, A., Antrop, M., Bats, M., De Maeyer, P., Finke, P., Van Meirvenne, M., Verniers, J., & Crombé, P. , 2011. Measuring the relative topographic position of archaeological sites in the landscape, a case study on the Bronze Age barrows in northwest Belgium. *Journal of Archaeological Science*, 38(12), 3435-3446. (Impact factor: 1.770 for 2010).

Neutens, T., Delafontaine, M., Scott, D. M., De Maeyer, P., 2011, A GIS-based method to identify spatiotemporal gaps in public service delivery. *Applied Geography* 32, 253-264. (IF: 2.324, 10/67)

Kellens, W., Zaalberg, R., Neutens, T., Vanneuville, W. & De Maeyer, P., 2011. An analysis of the public perception of flood risk on the Belgian coast, *Risk Analysis* 31, 7, 1055-1068. (Impact factor: 2.096 for 2010)

Deneckere, A., De Reu, M., Martens, M.P.J., De Coene, K., Vekemans, B., Vincze, L., Vandenabeele, P., Moens, L. & De Maeyer, P., 2011. The use of a multi-method approach to identify the pigments in the 12th century manuscript Liber Floridus, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 80, 1, 125-132. (Impact factor: 1.770 for 2010)

De Smedt, P., Van Meirvenne, M., Meerschman, E., Saey, T., Bats, M., Court-picon, M., De Reu, J., Zwertvaegher, A., Antrop, M., Bourgeois, J., De Maeyer, P., Finke, P., Verniers, J.,

- & Crombé, P., 2011. Reconstructing palaeochannel morphology with a mobile multicoil electromagnetic induction sensor. *Geomorphology*, 130(1-2), 136-141. (Impact factor: 2.352 for 2010)
- Delafontaine, M., Bogaert, P., Cohn, A., Witlox, F., De Maeyer, P., & Van de Weghe, N., 2011. Inferring additional knowledge from QTC(N) relations. *Information Sciences*, 181(9), 1573-1590. (Impact factor: 2.836 for 2010)
- Neutens, T., Schwanen, T., Witlox, F. & De Maeyer, P., 2011. The impact of opening hours on individual accessibility : a case study in the context of accessibility to public services, *Urban Geography* (in press) (Impact factor: 1.127)
- Neutens, T., Schwanen, T., Witlox, F. & De Maeyer, P., 2011. Social equity of public service delivery: a comparison of different accessibility measures, *Environment and Planning A* (in press) (Impact factor: 1.763)
- Werbrouck, I., Antrop, M., Van Eetvelde, V., Stal, C., De Maeyer, P., Bats, M., Bourgeois, J., Court-Picon, M., Crombé, P., De Reu, J., De Smedt, P., Finke, P.A., Van Meirvenne, M., Verniers, J. & Zwertvaegher, A., 2011. Digital elevation model generation for historical landscape analysis based on LiDAR data, a case study in Flanders (Belgium), *Expert Systems with Applications*, 38 (7), 8173-8185 (Impact factor: 1.926 for 2010).
- Neutens, T. Schwanen, T., Witlox, F. De Maeyer, P., 2010. Evaluating the temporal organization of public service provision using space-time accessibility analysis, *Urban Geography*, 31(8), 1039-1064 (Impact factor: 1.187).
- Qiang, Y., Delafontaine, M., Asmussen, K., Stichelbaut, B., De Tré, G., De Maeyer, P., & Van de Weghe, N., 2010. Modelling imperfect time intervals in a two-dimensional space. *Control And Cybernetics*, 39(4), 983-1010 (Impact factor: 0.300).
- Zwertvaegher, A., Werbrouck, I., Finke, P., De Reu, J., Crombé, P., Bats, M., Antrop, M., Bourgeois, J., Court-Picon, M., De Maeyer, P., De Smedt, P., Sergeant, J., Van Meirvenne, M. & Verniers, J., 2010. On the use of integrated process models to reconstruct prehistoric occupation, with examples from Sandy Flanders, Belgium, *Geoarchaeology*, 25 (6), 784-814 (Impact factor: 1.176).
- Suykerbuyk, P.; Wambacq, J.; Phanzu, D.; Haruna, H.; Nakazawa, Y.; Ooms, K.; Kamango, K.; Stragier, P.; Singa, J.; De Herdt, E.; De Maeyer, Ph.; Kestens, L.; Portaels, F. & Ekwanzala, F., 2009. Persistence of Mycobacterium ulcerans disease (*Buruli ulcer*) in the historical focus of Kasongo Territory, the Democratic Republic of Congo, *American Journal of Tropical Medicine & Hygiene*, 81 (5), 888-894 (Impact factor: 2.450)
- Delafontaine, M., Nolf, G., Van de Weghe, N., Antrop, M. & De Maeyer, Ph., 2009. Assessment of sliver polygons in geographical vector data, *International Journal of Geographical Information Science*. 23 (6), 719-735 (Impact factor: 1.822)
- Gamanya, R., De Maeyer, Ph. & De Dapper, M., 2009. Object-oriented change detection for the city of Harare, Zimbabwe, *Expert Systems with Applications*, 36, 571-588. (Impact factor: 1.247)
- Witlox, F., Antrop, M., Bogaert, P., De Maeyer, Ph., Derudder, B., Neutens, T., Van Acker, V., & Van de Weghe, N., 2009. Introducing functional classification theory to land use planning by means of decision tables: A theoretical exercise, *Decision support systems*, 46

(4), 875-881 (Impact factor: 1.160)

De Wolf, N. & De Maeyer, Ph., 2008. Italian composite atlases and a Belgian undescribed copy, *The Cartographic Journal*, 45 (4), 296-303. (Impact factor: 0.514)

Neutens, T., Schwanen, T., Witlox, F., & De Maeyer, Ph., 2008. My space or your space? Towards a measure of joint accessibility. *Computers, Environment and Urban Systems*, 32 (5), 331-342. (Impact factor: 1.025)

Delafontaine, M., Van de Weghe, N., Bogaert, P. and De Maeyer, Ph., 2008, Qualitative Relations between Moving Objects in a Network Changing its Topological Relations, *Information Sciences*, 178 (8), 1997-2006. (Impact factor: 3.095)

Neutens, T., Van de Weghe, N., Witlox, F. & De Maeyer, Ph., 2007. A three-dimensional network-based space-time prism, *Journal of Geographical Systems*, 10 (1), 89-107. (Impact factor: 1.250)

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Van de Weghe, N., Docter, R., De Maeyer, Ph., Bechtold, B. & Ryckbosch, K., 2007, The Triangular Model as an instrument for visualising and analysing residuality, *Journal of Archaeological Science*, 34 (4), 649-655. (Impact Factor: 1.316)

Gamanya, R., De Maeyer, Ph. & De Dapper, M., 2007, An automated satellite image classification design using object-oriented segmentation algorithms: a move towards standardization, *Expert Systems with Applications*, 32, 616-624. (Impact factor: 1.247)

Van de Weghe, N., Cohn, A.G., De Tré, B. and De Maeyer, Ph., 2006, A qualitative trajectory calculus as a basis for representing moving objects in geographical information systems, *Control and Cybernetics*, 35 (1), 97-120. (Impact factor: 0.224)

Van de Weghe, N., Cohn, A.G., De Maeyer, Ph. & Witlox, F., 2005, Representing moving objects in computer-based expert systems: the overtake event example, *Expert Systems with Applications*, 29 (4), 977-983. (Impact factor: 1.247)

De Maeyer, Ph., Wartel, S. & De Moor, G., 1985, Internal structures of the Nieuwpoortbank (Southern North Sea), *Netherlands Journal of Sea Research*, 19 (1), 15-18 (Impact factor: 1.518)

(P1) Conference proceedings, included in the ISI Web of Science

De Tré, G., Bronselaer, A., Matthé, T., Van de Weghe, N. & De Maeyer, P., 2010. Consistently handling geographical user data: context-dependent detection of co-located POIs. In: Hüllermeier, E., Kruse, R. & Hoffmann, F. (Eds.), *13th International conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems (IPMU 2010)*, Dortmund, Germany, 2010-06-28. Springer, Berlin, 85-94.

Saleh, H., Allaert, G., De Sutter, R., Kellens, W., De Maeyer, Ph. & Vanneuville, W., 2009. Intelligent Decision Support System Based Geo-Information Technology and Spatial Planning for Sustainable Water Management in Flanders. In: Feyen, J., Shannon, K., Neville, M. (Eds.), *Water and Urban Development Paradigms*, Taylor & Francis Group, London, 283-288.

Qiang, Y., Asmussen, K., Delafontaine, M., De Tré, G., Stichelbaut, B., De Maeyer, P., & Van de Weghe, N., 2009. Visualising rough time intervals in a two-dimensional space. *Proceedings Of The Joint 2009 International Fuzzy Systems Association World Congress And 2009 European Society For Fuzzy Logic And Technology Conference*. Linz, Austria: European Society for Fuzzy Logic and Technology (EUSFLAT).

Kellens W., Deckers P., Saleh. H., Vanneuville W., De Maeyer Ph., Allaert, G. & De Sutter, R., 2008. A GIS tool for flood risk analysis in Flanders (Belgium), Sixth International Conference on Computer Simulation Risk Analysis and Hazard Mitigation, in Risk Analysis VI, Transactions of the Wessex Institute, 21-27.

Bogaert, P., Van de Weghe, N., Cohn, A.G., Witlox, F. & De Maeyer, Ph., 2007. The Qualitative Trajectory Calculus on Networks, *Proceedings of the International Conference on Spatial Cognition, Lecture Notes in Artificial Intelligence (LNAI)*, 4387, 20-38. (Impact factor: 0.302)

Van de Weghe, N., Witlox, F., Cohn, A.G., Neutens, T. & De Maeyer, Ph., 2007. Efficient Storage of Interactions Between Multiple Moving Point Objects, *Proceedings of the 2nd International Workshop on Semantic-Based Geographical Information Systems (SeBGIS), Lecture Notes in Computer Science (LNCS)*, Springer-Verlag, Germany, 1636-1647. (Impact factor: 0.402)

De Tré, G., Van de Weghe, N., De Caluwe, R. & De Maeyer, Ph., 2006. Towards a flexible visualization tool for dealing with temporal data, In: Larsen, H., Pasi, G., Arroyo, D., Andreasen, T., and Christiansen, H., *Proceedings of the 7th International Conference on Flexible Query Answering Systems (FOAS), Lecture Notes in Artificial Intelligence (LNAI)*, Springer-Verlag, Germany, (4027), p.109-120. (Impact factor: 0,302)

Van de Weghe, N., Kuijpers, B., Bogaert, P. & De Maeyer, Ph., 2005, A qualitative trajectory calculus and the composition of its relations, In: Rodriguez, A., Cruz, I., Egenhofer, M. and Levashkin, S. (Eds.), *Proceedings of the 1st International Conference on Geospatial Semantics (GeoS)*, Mexico City, Mexico, *Lecture Notes in Computer Science (LNCS)*, Springer-Verlag, Germany, (3799), p.60-76. (Impact factor: 0.513, ISI:000234717100005)

Van de Weghe, N., De Tré, G., Kuijpers, B. & De Maeyer, Ph., 2005, The double-cross and the generalization concept as a basis for representing and comparing shapes of polylines, In: Zimanyi, E. and Stefanakis, E. (Eds.), *Proceedings of the 1st International Workshop on Semantic-Based Geographical Information Systems (SeBGIS)*, Agia Napa, Cyprus, *Lecture Notes in Computer Science (LNCS)*, Springer-Verlag, Germany, (3762), p.1087-1096 (Impact factor: 0.513, ISI:000233744700132).

Van de Weghe, N. & De Maeyer, Ph., 2005, Conceptual neighbourhood diagrams for representing moving objects, In: Bertolotto, M. (Ed.), *Proceedings of the 2nd International Workshop on Conceptual Modeling for Geographic Information Systems (CoMoGIS)*, Klagenfurt, Austria, *Lecture Notes in Computer Science (LNCS)*, Springer-Verlag, Germany,

(3770), p.228-238 (Impact factor: 0.513, ISI:000233787100024).

Rodriguez, A., Van de Weghe, N. & De Maeyer, Ph., 2004, Simplifying sets of events by selecting temporal relations, In: Egenhofer, M., Freksa, C. and Miller, H. (Eds.), *Proceedings of the 3th International Conference on Geographic Information Science (GIScience)*, Adelphi, USA, *Lecture Notes in Computer Science (LNCS)*, Springer-Verlag, Germany, (3234), p.269-284. (Impact factor: 0.515, ISI:000224989100018)

Van de Weghe, N., Maddens, R., Bogaert, P., Brondeel, M. and De Maeyer, Ph., 2004, Qualitative analysis of polygon shape-changes, *Proceedings of IEEE the International Geoscience and Remote Sensing Symposium (IGARSS)*, Anchorage, Alaska, USA. (ISI:000227006901098)

Brondeel, M., De Wolf, N., De Maeyer, Ph., Antrop, M. and Ongena, T., 2004, Complementary training on contemporary positioning using a website based application, *Proceedings of IEEE the International Geoscience and Remote Sensing Symposium (IGARSS)*, Anchorage, Alaska, USA (ISI: 000277006901273).

Van de Weghe, N., Cohn, A.G. & De Maeyer, Ph., 2004. A qualitative representation of trajectory pairs, In: Lopez de Manteras, R. and Saitta, L. (Eds.), *Proceedings of the 16th European Conference on Artificial Intelligence (ECAI)*, Valencia, Spain, IOS Press, p.1103-1104. (ISI:000225505100261)

Verbeken, J., De Temmerman, L., Goossens, R., Lavreau, J. & De Maeyer, Ph., 2004, Classification of the vegetation in the Virunga National Park (D.R. Congo) by integrating past mission reports into Landsat-TM and Terra-Aster Sensors, In : Oluic, M. (Ed.), *New Strategies for European Remote Sensing*, Dubrovnik, Croatia. (ISI:000227006901098)

De Maeyer, Ph., De Temmerman, L. Bogaert, P., Vansteenvoort, L. & Goossens, R., 2003, The benefits of remote sensing for conservation and monitoring world heritage sites, *Remote Sensing in Transition: Proceedings of the 23th Earsel Symposium*, Ghent, p.381-385. (ISI:000189495100055).

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(A2) International peer-reviewed journals, not included in the ISI Web of Science

Stal, C., Nuttens, T., Bourgeois, J., Carlier, L., De Maeyer, P. & De Wulf, A., 2011, Accuracy assessment of a LiDAR Digital Terrain Model by using RTK GPS and total station. *EARSeL eProceedings*, Volume 10, Issue 8, pp. 1-8.

Neutens, T., Witlox, F., & De Maeyer, Ph., 2007, Individual accessibility and travel possibilities: A literature review on time geography, *European Journal of Transport and Infrastructure Research*, 7 (4), 335-352.

Vanneuville, W., De Maeyer, Ph., Maeghe, K. and Mostaert, F., 2003, Model the effects of a flood in the Dender catchment based on a risk methodology, *Bulletin of the Society of*

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De Maeyer, Ph., 2000, Base Maps in Belgium, *Belgeo*, (1-4), p.165-172.

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(A3) National or regional journals (peer reviewed)

Schelfout, K., Van der Craats, I.M., Huygens, M. & De Maeyer, P., 2011, Sociale veerkracht bij overstromingen: een Vlaams praktijkvoorbeeld. *Ruimte & Maatschappij*, 3 (1), p. 78-92.

Bats M., De Smedt Ph., Werbrouck I., Zwertvaegher A., Court-Picon M., De Reu J., Serbruyns L., Demiddele Hendrik, Antrop M., Bourgeois J., De Maeyer Ph., Finke P., Van Meirvenne M., Verniers J. & Crombé Ph., 2010. Continued geoarchaeological research at the Moervaart palaeolake area (East Flanders, Belgium): preliminary results. *Notae Praehistoricae*, 30/2010 : 15-21.

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De Reu, J., Bats, M., Bourgeois, J., Antrop, M., Court-Picon, M., De Maeyer, P., De Smedt, P., Finke, P., Van Meirvenne, M., Verniers, J., Werbrouck, I., Zwertvaegher, A. & Crombé, P., 2010, Digitizing, inventorying, reviewing and analyzing the "Bronze Age barrows database" of East and West Flanders (Belgium). *Lunula, Archaeologia protohistorica*, 18, 43-47.

De Reu, J., Bats, M., De Smedt, P., Bourgeois, J., Antrop, M., Court-Picon, M., De Maeyer, P., Finke, P., Van Meirvenne, M., Verniers, J., Werbrouck, I., Zwertvaegher, A. & Crombé, P., 2010, Bronze and Iron Age landscapes in Sandy Flanders (NW-Belgium): a geoarchaeological approach. *Lunula, Archaeologia protohistorica*, 18, 17-22.

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- kwaliteit van kaarten in kranten, *Geo-Info*, 2 (4), p.158-163.
- Brondeel, M., De Maeyer, Ph. en De Wulf, A., 2005, Geomatica-opleidingen in Vlaanderen, *Geo-Info*, 2 (1), p.54-55.
- Bogaert, P., Vanneuville, W., Van de Weghe, N., De Maeyer, Ph. en Maeghe, K., 2004, Zijn enkel mooie plaatjes belangrijk?, *Geo-Info*, 1 (4), p.158-163.
- De Maeyer, Ph. en De Vlieghe, B., 2004, Geografie-opleidingen in Vlaanderen, *Geo-Info*, 1 (4), p.150-151.
- Gamanya, R., De Maeyer, Ph., De Dapper, M. en Brondeel, M., 2004, Urbanisatie van de stad Harare, *Geo-Info*, 1 (9), p.380-383.
- De Maeyer Ph., Pellé, J.-M. et Collard C., 2003, Modèle des coûts de reproduction d'une carte, *Le Monde des Cartes*, (177-178), p.54-59.
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- De Maeyer, Ph., Pellé, J.-M. en Collard, C., 2003, Management van kaartproductie: aspecten van de kostcalculatie, *Kartografisch Tijdschrift*, 24 (4), p.7-10.
- De Wolf, N. en De Maeyer, Ph., 2003, Italiaanse 16de eeuwse samengestelde atlassen, semiologische analyse, *De Aardrijkskunde*, (3-4), p.21-28.
- Van de Weghe, N. en De Maeyer, Ph., 2003, Tijdruimtelijk model als basis van een tijdruimtelijk dataformaat, *Geodesia*, 45 (9), p.324-331.
- Vansteenvoort, L., De Maeyer, Ph. en Lavreau, J., 2003, Cartografie van moeilijk toegankelijke gebieden: Proefblad Kalima, *Kartografisch Tijdschrift*, 24 (2), p.42-43 met kaartbijlage.
- De Maeyer, Ph. en Vansteenvoort, L., 2002, Réalisation de spatiocartes dans des zones d'accès difficiles, *Le Monde des Cartes*, (173-174), p.29-36.
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De Maeyer, Ph., Frappa, M. et Muraour, P., 1981, Présentation d'une méthode de mesure de la vitesse sismique des sédiments superficiels en eau peu profonde et résultats obtenus dans l'Embouchure de la Gironde, *Bull. Inst. Géol. Bassin d'Aquitaine*, 30, p.87-95.

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(A4) National or regional journals

Bogaert, P. en de Maeyer, Ph., 2006, De Impact van Webservices, *AM-FM News*, (33), p.15-17.

De Wolf, N. en De Maeyer, Ph., 2004, De Lafreri atlas van de KOKW onder de loep genomen, *Annalen van de Koninklijke Oudheidkundige Kring van het Land van Waas*, (107), p.169-212.

Bogaert, P. en De Maeyer, Ph., 2003, Webcartografie: cartografie met als medium het World Wide Web, *AM-FM News*, (26), p.4-6.

Van de Weghe, N. en De Maeyer, Ph., 2003, Visualisatie van tijd via GIS, *AM-FM News*, (26), p.19-21.

De Maeyer, Ph., 2001, Cartografische visualisatie bij web en schermcartografie, *AM-FM GIS*, (21), p.6-8.

De Maeyer, Ph., 1981, Morfografische kenmerken van de Banken van de Zuidelijke Bochten van de Noordzee, *Informatieblad Instituut voor Zeewetenschappelijk Onderzoek*, 11, p.14-17.

De Maeyer, Ph., 1980, Etude des vitesses sismiques des sédiments marins en eau peu profonde, *Informatieblad Instituut voor Zeewetenschappelijk Onderzoek*, 10 (2), p.32-33.

(B) (PARTS OF) BOOKS

(B1) Author or co-author of books

De Maeyer, P., De Wulf, A. & Van de Weghe, N., 2011, Basisbegrippen Geomatica, Gent, Academia Press, pp.442, ISBN 978-90-382-1876-2.

De Maeyer, Ph., Tibau, G., Daenekint, D., Merchiers, J., & Paternoster. J., 2011, De Boeck

- Atlas, Uitgeverij De Boeck, pp.180, ISBN 978-90-455-3693-4.
- De Coene, K., De Reu & M., De Maeyer, P., 2011, Liber Floridus 1121, de wereld in een boek, Tielt, uitgeverij Lannoo, pp.191, ISBN 978-90-209-9938-9.
- De Coene, K., De Reu, M. & De Maeyer, P., 2011, Liber Floridus 1121, the world in a book, Tielt, uitgeverij Lannoo, pp.191, ISBN 978-90-209-5927-7.
- De Maeyer, Ph., Tibau, G., Daenekint, D., Merchiers, J., & Paternoster. J., 2009, De kleine De Boeck atlas, Antwerpen, Uitgeverij De Boeck, pp.80, ISBN 978-90-455-3038-3.
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(G) LARGE SHEET MAPS

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