



Isabelle THOMAS

Short curriculum vitae

MA Geography, 1979, Ph.D. Geography, 1984, Thèse d'agrégation (AES), 2000, U.C.L., Louvain-la-Neuve, Belgium

A full version of the curriculum vitae can be obtained on request

Isabelle Thomas studied geography at the F.N.D.P (Namur) and U.C.L. (Louvain-la-Neuve, Belgium) where she also got her PhD in 1984. Most of her career is academical (National Fund for Scientific Research) at the exception of five years at the Headquarters of the Belgian Gendarmerie for studying the spatial structure of road accidents. In 1989, she got the “Prix Philippe Aydalot 1989 en Science Régionale”. Since 1991, she has a permanent research position at the N.F.S.R. (F.R.S-F.N.R.S.) and is nowadays Research Director at the F.S.R., member of the C.O.R.E. and professor at the Department of Geography of the U.C.L in Louvain-la-Neuve. In 2000, she wrote a new thesis (“thèse d’agrégation”) which was awarded in 2001 by the BMW Scientific Award and led to the publication of a book. Isabelle Thomas is particularly interested in (1) modelling the location of human activities and more particularly the sensitivity of the models to their inputs, but also understanding the spatial structure of human activities and transportation fluxes, and (2) quantitative analysis for spatial data. Topics such as scale, M.A.U.P., autocorrelation, mapping procedures, multivariate modeling etc. are of particular interest. Application domains are mainly periurbanisation, road accident analysis, housing, employment, health, accessibility and socio-economic data, and the studied areas are limited to urban and periurban areas in Europe. Her research has led to over 150 publications (9 books, 25 book chapters, 120 papers in scientific journals) and to more than 180 presentations in conferences. She is and was involved in different international research projects. She is member of the editorial board and referee for several scientific journals in geography and spatial economics.

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Exemples of recent publications (full list on request):

Books

- DIJST M., SCHENKEL W., THOMAS I. (Eds.) (2002) *Governing Cities on the Move. Functional and management perspectives on transformations of European urban infrastructures.* Burlington, Ashgate 301p.
- THOMAS I. (2002). *Transportation Network and the Optimal Location of Human Activities. A numerical geography approach.* Cheltenham, Edward Elgar Publishing Ltd, 293 p.
- VANNESTE D., THOMAS I., GOOSSENS L. (2007) *Woning en Woonomgeving in België.* Brussel, FOD Economie en Statistiek, FOD Wetenschapsbeleid., 201 p.

Chapters of books

- GOFFETTE-NAGOT F., THOMAS I., ZENOU Y. (2000) *Structure urbaine et revenu des ménages*, in *Economie géographique. Les théories à l'épreuve des faits.* Baumont C., Combes P.P., Derycke P.H. et Jayet H. (Eds.) Paris, Economica, pp. 276-302.
- HAMMADOU H., THOMAS I., VAN HOFSTRAETEN D. & VERHETSEL A. (2003), *Distance Decay in activity chains analysis. A Belgian case study*; in DULLAERT W., JOURQUIN B. & POLAK J. (eds), *Across the border. Building upon a quarter century of transport research in the Benelux*, Antwerpen, De Boeck, pp 1-26.
- PEETERS D., THOMAS I. (2007). *Location of Public Services: From Theory to Application*, in Sanders L. *Models in Spatial Analysis*, Iste, Hermes Science and Lavoisier Company, pp. 73-96

Papers

- ARNOLD P., PEETERS D., THOMAS I. (2004) *Modelling a rail/road intermodal transportation system*, *Transportation Research Part E: Logistics and Transportation Review*, 40, 255-270.
- CAVAILHES J., FRANKHAUSER P., PEETERS D., THOMAS I. (2004) *Where Alonso meets Sierpinski: an urban economic model of a fractal metropolitan area.* *Environment and Planning A* , 36:8, 1471-1498.
- DE KEERSMAECKER M.-L., FRANKHAUSER, THOMAS I. (2003) *Using fractal dimensions to characterize intra-urban diversity. The example of Brussels.* *Geographical Analysis*, 35:4, 310-328
- DE KEERSMAECKER M.-L., FRANKHAUSER, THOMAS I. (2004) *Analyse de la réalité fractale périurbaine : l'exemple de Bruxelles.* *L'Espace Géographique* 2004 :3, 219-240.
- DUJARDIN C., THOMAS I., TULKENS H. (2007) *Quelles frontières pour Bruxelles ? Une mise à jour.* *Reflets et perspectives de la vie économique* Tome XLVI –2007/2-3, pp 155-176
- DUJARDIN C., SELOD H., THOMAS I. (2004) *Le chômage dans l'agglomération bruxelloise : une explication par la structure urbaine.* *Revue d'Economie Régionale et Urbaine*, pp. 3-28
- DUJARDIN C., SELOD H., THOMAS I. (2008) *Unemployment and urban structure for young adults. The case of Brussels.* *Urban Studies* (forthcoming)
- FLAHAUT B., LAURENT M., THOMAS I. (2002) *Locating a Community Recycling Centre within a Residential Area: a Belgian Case Study.* *The Professional Geographer*, 54(1), 67-82.
- FLAHAUT B., MOUCHART M., SAN MARTINO E., THOMAS I. (2003) *Identifying Black Zones with a Local Spatial Autocorrelation Index and a Kernel Method.* *Accident Analysis and Prevention*, 35, 991-1004.
- LASSARRE S., THOMAS I. (2005) *Exploring road mortality ratios in Europe: national versus regional realities.* *Journal of the Royal Statistical Society A*, 168:1, 127-144
- LORANT V., THOMAS I., DELIEGE D., TONGLET R. (2001) *Deprivation and Mortality: the implications of spatial autocorrelation for health resources allocation.* *Social Sciences & Medicine*, 53 :12, 1711-1719.
- PEETERS D., THISSE J.-F., THOMAS I. (2000) *High Speed Connections and the Location of Human Activities.* *Environment and Planning A*, 32:12, 2097-2112.

- RIGUELLE F., THOMAS I., VERHETSEL A. (2007) Urban polycentrism : a measurable reality. The case of Brussels. Journal of Economic Geography, 7, 193-215 .
- SERVAIS M., THOMAS I., VAN DYKE H., VERHETSEL A., A. (2004) Polycentrisme urbain : une réalité spatialement mesurable ? Cybergéo , article n°268.
- THISSE J.-F., THOMAS I. (2007) Bruxelles et Wallonie : une lecture de la vie économique urbaine, Reflets et Perspectives de la Vie Economique, XLVI, 2007/1, 75-93.
- THOMAS I., BIERNACKI C., FRANKHAUSER P. The fractal morphology of the built-up landscape. Landscape and Urban Planning (forthcoming)
- THOMAS I., FRANKHAUSER, DE KEERSMAECKER M.-L. (2007), Fractal dimension versus density of the built-up surfaces in the periphery of Brussels. Papers in Regional Science, 86 :2, 287-307.
- THOMAS I., HERMIA J.-P., VANHELSLANDER T., VERHETSEL A. (2003), Accessibility to Freight Transport Networks in Belgium. A geographical approach. Journal of Economic and Social Geography (ex. TESS), 94:4, pp. 424-438.
- THOMAS I., VANNESTE D. (2007) Le prix de l'immobilier en Belgique : Un peu de géographie ! Les Echos du Logement, 2007-1, pp. 17-25.