

Bio sketch Prof. dr. Martin Dijst

By discipline, Martin Dijst is urban geographer and in 2009 appointed as full professor of Urban Development and Spatial Mobility at Utrecht University, the Netherlands. December 1, 2017, he has been appointed as head of the department Urban Development and Mobility at LISER, Luxemburg. His research is focused on analysing the impact of spatial configurations of land uses and transport infrastructures on activity and travel behaviour and accessibility. Exposures toward residential environments and while being mobile and implications for health and health behaviours is currently one of his main topics. This work includes analysing the meaning of new digitalized sensors and monitoring techniques and self-management methods to stimulate health behaviours. Since 2010 he also studies mobility, housing and health issues in Chinese cities. Since 2014, he is involved in studies on Urban Metabolism. In the White Paper *'Exploring Urban Metabolism; towards an integrative perspective'* (Dijst et al., 2018; published in *Resources, Conservation and Recycling*) a combined natural and social science perspective on urban metabolism has been developed.

Martin Dijst was/is PI of several large research projects such as the EU-Project *SELMA: Spatial Deconcentration of Employment and Quality of Life in European Metropolitan Areas*, the Dutch NWO research program *CESAR: Climate and Environmental change and Sustainable Accessibility of the Randstad* and the FAPESP-ESRC-NWO project *DEPICT: DEsigning and Policy Implementation for encouraging Cycling and walking Trips*.

Since 2013 he was leading the Utrecht University interdisciplinary research program *Healthy Urban Living*. For the first time researchers from a large variety of medical, behavioural and GIS scientific disciplines started to work together to study issues related to healthy urban living. The development of the program is a concerted action of several faculties of Utrecht University (UU) and University Medical Center Utrecht (UMCU) in close collaboration with scientific partner institutes such as RIVM (National Institute for Public Health and the Environment), NIVEL (Netherlands Institute for Health Services Research), TNO (Netherlands Organization of Applied Scientific Research) and PBL (Netherlands Environmental Assessment Agency). The group has also earned substantial credits at the Ministry of Infrastructure and the Environment as well as several municipalities like Utrecht, Eindhoven and Tilburg, and the provinces of Utrecht and Noord-Brabant, resulting in collaborations on healthy urban living research and policy programs. As part of the program a Global and Geo Health Data Center is in development (<https://globalgeohealthdatacenter.com>). In 2016 he initiated the Gravitation proposal *Exposome.nl: exposome and health research consortium Netherlands* (PI Grobbee UMCU).

Key publications

- Dijst, M, Worrell, E, Böcker, L, Brunner, P, Davoudi, S, Geertman, S, Harmsen, R, Helbich, M, Holtslag, A, Lenz, B, Lyons, G, Mokhtarian, P, Newman, P, Perrels, A, Ribeiro, A, Carreón, J, Thomson, G, Urge-Vorsatz, D, Zeyringer, M & Kwan, M. (2018). Exploring urban metabolism—Towards an interdisciplinary perspective. *Resources, Conservation and Recycling*, (pp. -).
- Liu, Y., Dijst, M., Geertman, S. and Cui, C. (2017), Social sustainability in an ageing Chinese society: towards an integrative conceptual framework. *Sustainability*, 9, 658 doi:10.3390/su9040658.

- Strak, M., Janssen, N., Beelen, R., Schmitz, O., Vaartjes, I., Karssenbergh, D., Van den Brink, C., Bots, M., Dijst, M., Brunekreef, B. and Hoek, G. (2017), Diabetes prevalence and long-term exposure to PM_{2.5}, NO₂ and the oxidative potential of particulates in a large national health survey. *Environmental Health Perspectives*. 108, nov., pp. 228-236.
- Dogterom, N., Ettema, D. & Dijst, M. (2017), Tradable credits for managing car travel: a review of empirical research and relevant behavioural approaches. *Transport Reviews*. (pp. 322-343).
- Feng, J., Dijst, M.J., Wissink, B. & Prillwitz, J. (2013). The impacts of household structure on the travel behaviour of seniors and young parents in China. *Journal of Transport Geography*, 30, (pp. 117-126) (10 p.).
- Böcker, L., Dijst, M.J. & Prillwitz, J. (2012). Impact of everyday weather on individual daily travel behaviours in perspective: A literature review. *Transport Reviews: A Transnational Transdisciplinary Journal*, 33 (1), (pp. 71-91) (21 p.).
- MqQuoid, J. & Dijst, M.J. (2012). Bringing emotions to time geography: The case of mobilities of poverty. *Journal of Transport Geography*, 23, (pp. 26-34) (9 p.).
- Alexander, B., Hubers, C.G.T.M., Schwanen, T., Dijst, M.J. & Ettema, D.F. (2011). Anything, anywhere, anytime? Developing measurement instruments to assess the spatial and temporal fragmentation of activities. *Environment and Planning B: Planning and Design*, 38 (4), (pp. 678-705) (28 p.).
- Dijst, M.J., Kwan, M.-P. & Schwanen, T. (2009). Decomposing, transforming and contextualizing (E)-shopping. *Environment and Planning B: Planning and Design*, 36 (2), (pp. 195-203) (9 p.).
- Dijst, M.J., Farag, S. & Schwanen, T. (2008). A comparative study of attitude theory and other theoretical models for in-store and online shopping. *Environment and Planning A*, 40 ((4)), (pp. 831-847) (17 p.).
- Limtanakool, N., Dijst, M.J. & Schwanen, T. (2007). A Theoretical Framework and Methodology for Characterising National Urban Systems on the Basis of Flows of People: Empirical Evidence for France and Germany. *Urban Studies*, 44 (11), (pp. 2123-2145) (23 p.).
- Zandvliet, R.M., Dijst, M.J. & Bertolini, L. (2006). Destination choice and identity of places: a disaggregated analysis for different types of visitor population environment in the Netherlands. *Journal of Transport Geography*, 14, (pp. 451-462) (12 p.).
- Verburg, P.H., Schot, P.P., Dijst, M.J. & Veldkamp, A. (2004). Land use change modelling: current practice and research priorities. *GeoJournal*, 61 (4), (pp. 309-324) (16 p.).
- Krygsman, S.C., Dijst, M.J. & Arentze, T. (2004). Multimodal public transport: an analysis of travel time elements and the interconnectivity ratio. *Transport Policy*, 11, (pp. 265-275) (11 p.).
- Bertolini, L. & Dijst, M.J. (2003). Mobility environments and network cities. *Journal of Urban Design*, 8 (1), (pp. 27-43) (17 p.).
- Dieleman, F.M., Dijst, M.J. & Burghouwt, G. (2002). Urban form and travel behavior: micro-level household attributes and residential context. *Urban Studies*, 39 (3), (pp. 507-527) (21 p.).
- Dijst, M.J. & Vidakovic, V. (2000). Travel time ratio: the key factor of spatial reach. *Transportation*, 27, (pp. 179-200) (22 p.).