

Yannick DESCANTES

Senior Researcher

53 years old, French

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EXPERTISE AND MANAGEMENT AT A GLANCE

- 2020 **Expert** for the **European Commission** (H2020, call CE-SC5-07c-2020, circular economy)
- 1999 – 2014 **European and national expert** in aggregates standardization (CEN/TC154)
- 2003 – 2014 **Convener** of CEN/TC154/SC6/TG11 expert group in charge of drafting European standards
- 2009 – 2011 **Coordinating person** of FP7 **European project** “DIRECT-MAT” on road recycling

EDUCATION

- 2007 **Accreditation to supervise research** (French “HdR”, University of Caen, France)
- 1998 **PhD** in Rocks Mechanics (INSA de Lyon, France)
- 1992 **Civil Engineer**, École nationale des travaux publics de l’État (ENTPE)

- Languages** **English:** fluent
 German: basics

POSITIONS

- 1998 – present** **Université Gustave Eiffel** (formerly IFSTTAR, formerly LCPC), Materials and Structures department, Route de Bouaye – CS5004, 44344 BOUGUENAIS CEDEX, France
Senior researcher and Civil engineer, themes: granular matter, aggregates and recycling
. Flow & packing discrete numerical simulation (DEM), test development, image analysis
. 9 PhD students supervised
. Flow & packing discrete numerical simulation (DEM), test development, image analysis
. 19 peer-reviewed articles published, 4 books (co-)authored, 2 patents filed
. Teacher (civil engineering lectures to MSc. and BSc. Students)
. **European and national expert** in aggregates **standardization** (1999-2014)
. **Coordinating person** of FP7 European project “DIRECT-MAT” on road recycling (2009-2011, agreement n°218656, 20 participants, 15 countries, www.direct-mat.eu)
- 1994 - 1998 **Laboratoire des ponts et chaussées** de Lyon, France (now CEREMA)
Project engineer and PhD student

A SELECTION OF PUBLICATIONS

(full list at <https://publons.com/researcher/1914921/yannick-descantes/publications>)

- **Y. Descantes**, A new discrete element modelling approach to simulate the behaviour of dense assemblies of true polyhedra, Powder Technology, 401, 117295 (2022)
- **Y. Descantes**, F. Tricoire and P. Richard, Classical contact detection algorithms for 3D DEM simulations: drawbacks and solutions, Computers and Geotechnics, 114, Elsevier, 19p. (2019)
- H. Maimouni, S. Remond, F. Huchet, P. Richard, V. Thiery and **Y. Descantes**, Quantitative assessment of the saturation degree of model fine recycled concrete aggregates immersed in a filler or cement paste, Construction and Building Materials, 175, pp. 496–507 (2018)
- P. Gentilini, O. Yazoghli-Marzouk, V. Delmotte and **Y. Descantes**, Determination of the water content of fillerised fine aggregates in the saturated surface dry state, Constr. Build. Mat., vol. 98, p. 662-670 (2015)
- F. Thogersen, C. Grégoire, J. Stryk, P. Hornyk, **Y. Descantes**, C. Chazallon, A. Blasl, P. Broere, K. Fifer Bizjak, F. Hellman, M. Arm, Recycling of road materials into new unbound road layers - Main practice in selected European countries, Road materials and pavement design, 14, 2, Taylor & Francis Ltd, pp.438-444, (2013)
- E. Azéma, **Y. Descantes**, N. Roquet, J.N. Roux and F. Chevoir, Discrete simulation of dense flows of polyhedral grains down a rough inclined plane, Phys. Rev. E. 86, 3, (2012)