

# CURRICULUM VITAE

## Gilles MOREL

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Born : January 16th 1964 in Charlieu (France)



## PROFESSIONAL EXPERIENCE

### Current position at the University of Technology of Compiègne<sup>1</sup> (France)

- Since 2013: Director of the Urban System Engineering department
- Since 2008: Member of the research team AVENUES. In charge of the research topic : « Environmental vulnerability and urban planning »

### Previous position at the French ministry of sustainable development

- 2002 – 2008: in charge of research projects on risk and crisis management (see international experience below) – In charge of the development and distribution of the OSIRIS platform for collectivities
- 1995 – 2002: research activity on knowledge and software engineering applied to flood management – Consultant for the ministry of Environment
- 1989 – 1995: in charge of the development of expert-systems in civil engineering (acoustics, dikes design, geotechnics)

## DIPLOMA and EXAMINATIONS

- Administrator of the European Commission (2006)
- PhD in computer science of the University of Technology of Compiègne (UTC), with congratulations of the jury (2002).
- State Civil Engineer – Ecole Nationale des Travaux Publics de l'Etat (1988).

## COMPETENCES and SPECIALITIES

- Management of multidisciplinary innovative projects for urban and territory issues
- Preparation and management of European and international projects (research and innovative pedagogy)
- Risk and crisis management (flood, natural risk, technological risk, multi-risk)
- Knowledge management, software engineering, decision support tools.

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<sup>1</sup> UTC is one the three main member of the Sorbonne Universités group (French COMUE)

## **RESEARCH ACTIVITY**

- Since 2012: management of research projects in the topics of the “port of the future”, air pollution in urban areas, and multimodal mobility in metropolis.
- 2000 – 2012: preparation, participation and management of national and European projects on risk, crisis management and climate change (French ANR, EU FP ...)
- Organisation of international workshops on risk management, mass evacuation

## **TEACHING ACTIVITY at UTC and Sorbonne Universités (SU)**

- In charge of the lecture « Components of technical urban systems » (SU01)
- In charge of the development of international students projects for UTC and SU
- In charge of student projects in the field knowledge management (IA03)

## **INTERNATIONAL EXPERIENCE**

- Since 2016 : in charge of the international curriculum project “Ingénieur 3I” (industry, innovation, intercultural) with Brazil (UTFPR) and other partners on the five continents
- Since 2011 : cooperation with Brazil (Federal University of Rio de Janeiro) in the fields of “port of the future” and “smart and sustainable cities” – Invited Professor at UFRJ
- Asia (2003–2007): project director of the ISLAND project (program EuropAid / ASIA-IT&C) for ISTED, with Vietnam, Cambodia and Lao PDR.
- Europe (since 2000): participation in the EU projects OSIRIS (FP5 – IST), THESEUS (FP7 – environment) and AMICE (InterregIVB). Contribution in numerous project preparation for EU programs (environment, security, ICT).
- Morocco (95): animation of a seminar in artificial intelligence at the Casablanca civil engineering school.
- Germany (89-90): development of an expert-system in acoustics at the University of Karlsruhe.
- Canada (87-89): internship in acoustics at the University of Sherbrooke and in geotechnics at the Laval University (Québec).
- Communication in numerous international conferences since 1994 (see annex 1)

## **LANGUAGES**

- French and English : spoken, written – fluent.
- Portuguese, German : basic

## **SOCIAL AND SPORTS ACTIVITIES**

- International competitor in sportive dance (latin & standard) – ranked in World Dance Council (WDC) over 40 (between rank 20 and 30)

## List of recent publications (2009 – 2016)

### Articles in international reviews (ACL)

Pierre Navarath Ratsombath, Gilles Morel, Hipolito Martell-Flores et Maxime Berton, « Modélisation de la pollution particulaire liée au trafic routier à l'échelle de la rue et étude des leviers d'atténuation », *Cybergeog : European Journal of Geography* [En ligne], Environnement, Nature, Paysage, document 802, mis en ligne le 06 janvier 2017, consulté le 05 janvier 2017. URL : <http://cybergeog.revues.org/27882>

Xiaojuan Jia, Gilles Morel, Hipolito Martell-Flores, François Hissel, Jean-Louis Batoz, "Fuzzy logic based decision support for mass evacuations of cities prone to coastal or river floods", in *Environmental Modelling & Software*, Volume 85, November 2016, Pages 1-10, ISSN 1364-8152.

Hissel F., Morel G., Pescaroli G., Graaf H., Felts D., Pietrantonio L., "Early warning and mass evacuation", In *Coastal Engineering* (2014) : Special issue. ISSN: 0378-3889

Morel G., Rodrigues Lima F., Hissel F. Martell-Flores H., "Tools for an integrated, systems approach to sustainable port city planning", in *URBE, Revista Brasileira de Gestao Urbana (Brazilian Journal of Urban Management)*, vol.5, n°2, p. 39-49, juillet-décembre 2013.

Morel G., Hissel F., Aunay S., Demotier S., "OSIRIS-Multirisques : une méthode et un outil d'aide à la décision pour les communes soumises aux risques majeurs", *Revue européenne en ligne Cybergéo* ([www.cybergeog.eu](http://www.cybergeog.eu)), rubrique cartographie, juillet 2009, 14p.

### Communications with proceedings in international conferences

Rodrigues Lima F., Morel G., Martell-Flores H., "Plataforma colaborativa para o desenvolvimento sustentavel de cidades portuarias", In proceedings of III Simposio de pos graduação em engenharia urbana (SIMPGEU 2012), Maringa-PR, Brazil, 2012.

Rodrigues Lima F., Morel G., Moraes E.P., "Poros e cidades: proposta para uma plataforma colaborativa no ambito da engenharia urbana", In : 14 Encontro Nacional de Tecnologia do Ambiente Construido (ENTAC 2012), Juiz de Fora, Brazil, 29-31 octobre 2012.

Morel G., N'Diaye F., Prévot G., "Adaptation strategy to climate change and decision support: a cost-benefit approach for coastal cities prone to submersion", In: 11th Urban Environment Symposium - Urban Futures for a Sustainable World (UES 2012), Karlsruhe, Germany, 16-19 September 2012.

Jia X.J., Morel G., Hissel F., Martell-Flores H., "Fuzzy Logic Based Decision Support for Mass Evacuation of Coastal Cities Prone to Submersion in the Context of Climate Change", In proceedings of 2<sup>nd</sup> International Conference on Evacuation Modeling and Management (ICEM 2012), Northwestern University, Evanston, USA, August 2012.

Hissel F., Morel G., Taliercio G., "The benefits of crowdsourcing information for international disaster response - Deploying the AMICE platform on the Meuse river basin", Actes du symposium "International Wasserbau Symposium Aachen" (IWASA 2012), 15 pages, Aachen, Germany, 12-13 janvier 2012.

Morel G., Hissel F., Jia X.J., "Support for Preventive Mass Evacuation Planning in Urban Areas", in Proceedings of the "IET International Conference on Smart and Sustainable City" (ICSSC2011), pages 159-165, Shanghai, July 6-8, 2011.

Morel G., Hissel F., "The impact of flooding on transport networks and optimization of action plans in a decision support tool", Proceedings of Second International Conference on Flood Recovery Innovation and Response (FRIAR 2010), p 215-226, Milan, mai 2010, ISBN 978-1-84564-444-4.

### Communications with proceedings in national (French) conferences

P Sergent, G Prévot, G Mattarolo, M Luck, J Brossard, D T Nguyen, G Morel, N.-F Mar, M Benoit, F Ropert, N Guillou, F Bouttes, X Kergadallan, J.-J Trichet, J.-R Delisle, J.-M Menon, P Mallet, N Voyneau, M Lam, G Le Banner, "Projet SAO POLO Adaptation des structures côtières au changement climatique", In proceeding of: Dignes Maritimes et Fluviales de Protection contre les Submersions - 2ème colloque national, Aix en Provence, France.

Morel G., Hissel F., Jia X.J., Bouchrit F., “Aide à la gestion des évacuations de masse en cas d’inondation ou de submersion majeure”, Actes du colloque Géorisques 2011, Montpellier, 25-26 janvier 2011.

Morel G., Hissel F., 2010 – “OSIRIS-Inondation : un outil d’aide à la réalisation du Plan Communal de Sauvegarde et de gestion de crise inondation” – Actes du colloque SHF « risques d’inondation en Ile de France, 100 ans après les crues de 1910 », p 215-220, 24-25 mars 2010, Paris, ISBN 2-906831-82-4

Morel G., Hissel F., Aunay S., Demotier S., “OSIRIS-Multirisques : une méthode et un outil d’aide à la décision pour les communes soumises aux risques majeurs”, Actes des 5ème rencontres Géorisque, Montpellier, février 2009, 14p.