

Genserik L.L. Reniers (°1974)

Professor of Safety of Hazardous Materials ~ Hoogleraar Veiligheid van Gevaarlijke Stoffen

**TU Delft – Faculty of Technology, Policy and Management – Safety and Security Science Group – S3G
KULeuven, Campus Brussels – Faculty of Economics and Management – CEDON
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Academic Background

Ph.D. University of Antwerp, Antwerp, Belgium, Applied Economic Sciences, 2006

PGDip Vrije Universiteit Brussel, Brussels, Belgium, Teaching, 1999

PGDip Vrije Universiteit Brussel, Brussels, Belgium, Management, 1998

M.Sc. Vrije Universiteit Brussel, Brussels, Belgium, Chemical Engineering, 1997

Certifications

Course for beginning university lecturers at UA (Getuigschrift Onderwijskundige Professionalisering), 2007-2008

Advanced Course EHS Management at TI-KVIV, 2006-2007

Course for beginning university assistants at UA (Getuigschrift Onderwijskundige Professionalisering), 2001-2002

Doctoral training at UA (Getuigschrift Doctoraatsopleiding), 99172602, 1999-2002

Memberships

International Organization for Industrial Hazard Management (JOIFF), Since 2014, International

American Society of Industrial Security (ASIS), Since 2013, International

European Technology Platform for Industrial Safety (ETPIS), Since 2011, International

Belgian Association of Prevention managers (PreBes), Since 2011, National

European Corporate Security Association (ECSA), Since 2009, International (Inactive)

International Association of Emergency Managers (IAEM), Since 2009, International (Inactive)

Royal Flemish Society of Chemists (KVCV), Since 2007, National (Inactive)

Royal Flemish Society of Engineers (KVIV – now ie-net), Since 2006, National

American Chemical Society (ACS), 2005 - 2012, International (Inactive)

Society for Risk Analysis (SRA), Since 2005, International

Belgian Operations Research Society (Sogesci), Since 2004, National (Inactive)

Society of Engineers of Brussels (V.Ir.Br.), Since 1997, National (Inactive)

Overview of Curriculum Vitae

Work Experience: p. 2

Education: p. 3

Publications: p. 7

Service: p. 18

Honors and awards: p. 23

WORK EXPERIENCE

Academic Experience

February 2015 – Present: Scientific Director of the Leiden-Delft-Erasmus (LDE) Centre for Safety and Security; LDE is an inter-university Centre to stimulate inter-university cooperation, research, and education

Project coordinator of Prevention and Ergonomics studies, KULeuven at Campus Brussels (Campus Brussels) (2014 – 2016).

Team coordinator for the TEAM Prevention, Science and Technology, Hogeschool-Universiteit Brussel (HUB) (2008 - 2011).

Coordinator/co-founder of the Antwerp Research Group on Safety and Security (ARGoSS), University of Antwerp (2006 - Present).

Projects – Industrial Consulting

2010: Technologieverkenning (KMO-portefeuille, Institute for Science and Technology Flanders), Total Risk / Respect / Result Management

Projects – fundamental and applied research

2016: project promotor (2016-2017), Project – pre-study on bow-tie and management indicators for pallet jacks (by order of Procter & Gamble, private funding)

2016: Project participant (2016-2017), Project studying the cross-border information exchange and cooperation between Belgium and the Netherlands (by order of OVV (Onderzoeksraad voor de Veiligheid), public funding)

2016: Project participant (2016-2017), Project studying safety and security in industrial practice (together with RHDHV, and by order of Ministry of I&M, public funding)

2015: Project leader (2015-2016), Project studying safety indicators for OCI-Geleen ammonia plants and transports (by order of OCI, private funding)

2015: Project leader (2015-2016), Project to develop an optimization model for decision-making considering safety assessment in the Belgian railway industry (by order of Infrabel, private funding)

2014: co-promotor (2014 – 2016) of PhD thesis, Design of integrated scheduling and queuing methodologies for developing timetables that aim at optimized people flows and maximizing safety (by order of Impulsfonds KULeuven, public funding)

2014: co-promotor (2014-2018) of PhD thesis, Study of safety culture (measurement, quality, etc.) (by order of Gilbert Van de Putte, private funding)

2014: Project leader (2014-2018), Promotor of 2 PhD theses, Safety of Gas distribution in the Netherlands (by order of Netbeheer Nederland, private funding)

2014: Project leader (2014 – 2015) of Platypus project, investigating the use of BBNs in pro-active risk management of chemical industrial areas (by order of Shell, private funding) - finished

2011: Co-project leader (2011-2012), Project studying an integrated security approach within the port of Antwerp (together with UGent, by order of the Federal Police Antwerp, public funding) - finished

2009: Co-promotor (2009-2012), Project studying the integration of an environment cost model into a spatial explicit water quality model (together with VITO, by order of VI. Inst., public funding) - finished

2008: Co-project leader (2008-2009), Feasibility study: Flanders' strategic Initiative for Sustainable CHemistry (FISCH) (together with Essenscia, by order of the Institute for Science and Technology Flanders, IWT, public funding) - finished

2008: Project participant-executor (2008-2009), Project developing a risk analysis methodology for the transportation of hazardous materials in Flanders (together with UGent and SGS, by order of the Flemish Government, public funding) - finished

2008: Expert advisor, Reviewer/advisor for the Institute of Science and Technology in Flanders - finished

2006: Project Leader (2006-2008), Project studying human factors in the chemical industry (by order of Essenscia Flanders, private funding) - finished

2003: Project Leader (2003-2005), Project aiming at making an inventory and an analysis of all available methodologies, principles of good practice and recommendations for the evaluation from the safety point of view, of minimal personnel capacity of (petro)chemical installations and related industry enduring major accident risks (by order of the Belgian Federal Government, public funding) - finished

EDUCATION

Courses Taught (in alphabetical order)

- An introduction to Health and Prevention Management (KULeuven) (2007 - 2008) (M&PM, av. 45 stud., 30u)
- ***Capita selecta in health and safety (previously called: Advanced Occupational Health and Safety Management) (KULeuven) (2008 - Present) (M&PM, av. 35 stud., 20u)***
- Chemical Engineering techniques (unit operations) (Karel de Grote University college) (2007 - 2008) (Industrieel ing., 7 stud., 40u)
- Electromagnetics (practical lab sessions at UA) (1999 - 2006) (HIR, av. 130 stud., 4 lab sessions)
- Electronics (exercises + practical lab sessions at UA) (1999 - 2006) (HIR, av. 100 stud., 3 lab sessions)
- Electrotechnics (exercises + practical lab sessions at UA) (1999 - 2006) (HIR, av. 120 stud., 4 lab sessions)
- Engineering Risk Management (OPCW) (August 2015) (engineering students OPCW, av 30 stud., 20u)
- ***Engineering Risk Management & Safety (previously called: Health and Prevention Management) (KULeuven) (2007 - Present) (M&PM, av. 45 stud., 30u)***
- Fire Protection (UAMS) (2003 - 2005) (Master Class, av. 20 stud., 2u)
- ***General Chemistry (UA) (2006 – Present) (HIR, av. 100 stud., 30u)***
- ***Industrial Processes and Products (KULeuven) (2008 - Present) (HIR, av. 20 stud., 20u)***
- Industrial Chemical Processes (UA) (2006 – 2011) (HIR, av. 45 stud., 15u)
- ***Integrated management systems (UA) (2009 - Present) (HIR, av. 30 stud., 40u)***
- Mechanics (exercises at UA) (1999 - 2006) (HIR, av. 160 stud., av. 5 sessions)
- Modern developments in science and technology (KULeuven) (2011 – 2013) (HIR, av. 20 stud., 8u)
- ***Organic chemistry and bio-sciences (UA) (2006 – Present) (HIR, av. 80 stud., 30u)***
- Process technology (UA) (2006 – 2015) (HIR, av. 80 stud., 30u)
- Process safety (Prevent) (2012 – 2015) (Preventie-adviseur, av. 30 stud., 7u)
- Risk analysis exercises (VESTA) (2012 – 2014) (PAVO, av. 10 stud., 4u)
- ***Risk analysis and risk management (TUDelft) (2016 – Present) (av. 20 stud., 20u)***
- Risk analysis and risk management (UA - IMDO) (2011 – 2014) (PAVO, av. 15 stud., 3u)
- Risk Management (ITMMA) (2006 - 2008) (av. 15 stud., 4u)
- Risk management and risk analysis (VESTA) (2011 – 2014) (PAVO, av. 20 stud., 4u)
- Scientific approach to technological incidents (VESTA) (2012 – 2014) (PAVO, av. 10 stud., 4u)
- Security (Prevent) (2013 – 2015) (Preventie-adviseur, av. 30 stud., 2u)
- Security within industrial areas (UAMS) (2007 - 2012) (Master Class, av. 8 stud., 8u)
- Seminar Safety in business environments (UA) (2003 - 2007) (HIR, av. 20 stud., 30u)
- Shipping Management, Maritime Safety and Security (ITMMA) (2008 – 2015) (av. 15 stud., 4u)
- Technological Risk Management (UA, 2-yearly) (2009 - 2015) (HIR, av. 15 stud., 40u)
- Technology and safety in the food industry: part HACCP (UA) (2007 – 2013) (HIR, av. 20 stud., 4u)
- Thermodynamics (UA) (2006 – 2010) (HIR, av. 80 stud., 15u)
- ***Topics in advanced Technology (KULeuven) (2008 - Present) (HIR, av. 15 stud., 20u)***
- ***Security in the process industry (TUDelft) (2015 – Present) (Minor Safety, Security and Justice, av. 80 stud., 2u)***
- ***Process Safety (UTwente) (2015 – Present) (Masterclass Operationeel Risicomanagement, av. 15 stud., 4u)***

Promotor of Prevention theses (only prevention theses having been successfully defended by the student are mentioned)

KULeuven

2016:

- Sensibilisering van de leidinggevenden en in het algemeen het veiligheidsbewustzijn in het logistiek bedrijf Scania te Opglabbeek verhogen (Anneleen Kox)
- Wachttrolorganisatie en noodplanning bij warmtenetten (Simon Hollevoet)

2015:

- Implementatie van de Seveso III – Richtlijn – Toetsing bij DSV Gent (Gerard De Paep)
- Opstellen van een algemene procedure inzake vergrendeling (Matthieu Dekeyser)
- Crisiscommunicatiescan bij discipline 5 Stad Gent (Sara Ameloot)
- De opmaak van een intern noodplan voor de Bourlaschouwburg in Antwerpen (Kim Callebout)
- Optimalisatie van het PBM-beleid bij Eternit (Thomas Doms)
- Explosieveiligheid in de zaaglokalen van Brico (Noor Mousaid)
- Risicobeoordeling Safety Screening in Brussels Airport Company – bepalen van maatregelen en implementatie (Stijn Van der Jeugd)

2014:

- Standaardisatie van het beleid rond werken met derden bij Total Belgium NV – Operating Center Schoten (Arne Laurysen)
- Implementatie van een geïntegreerd veiligheidsbeheer gevaarlijke stoffen in een laboratorium (Monica Bogaert)
- Rifaquarium in de zoo van Antwerpen. Preventieve en organisatorische maatregelen voor werkzaamheden in het rifaquarium (Koen Wierinckx)
- Kosten-baten analyse van een sprinklerinstallatie en een branddetectiesysteem (Bert Campe)
- Optimalisatie van locatie van gevaarlijke producten bij gemeentediensten (Frederik Van Olmen)

2013:

- REACH implementatie bij een downstream gebruiker (David Kint)
- De aanpak van broei-brand in de afvalsector (David Bernaert)

2012:

- Verbeteren van het globale preventiebeleid door middel van een doorgedreven risicoanalyse en het formuleren van preventiemaatregelen bij Galva Power Houthalen (Jan Brouwers)
- Update van de wetgeving die van toepassing is op de gevaarlijke producten (Wannes De Breucker)
- Preaudit voor OHSAS 18001 bij TBAC (Tom Desmaele)
- Actualisatie risicoanalyses met voorstellen tot preventiemaatregelen via kostenbaten analyse (Kelly Seghers)
- Vergelijkende studie van VCA en OHSAS binnen Laborelec (Joren Sevenois)

2011:

- Toepassing van de explosie-veiligheidswetgeving. (Bart Adam)
- Risicoanalyse voor productiepersoneel in een chemisch bedrijf. (Kim Coppieters)
- Algemene noodplanning en crisismangement. (Dana Vranken)

2010:

- Change management en veiligheid: het uitwerken van een instrument om aspecten op vlak van arbeidsveiligheid bij procesveranderingen op te volgen. (Katrien Bos)
- Blootstelling aan chemische agentia. (Diederik Bouckenoghe)
- Gebruik en preventie van chemische producten bij Asco versus nieuwe regelgeving. (Bart De Créé)
- Implementeren van REACH-verplichtingen bij een downstreamgebruiker. (Olivia Van Haverbeke)
- De invloed van REACH op het inventariseren van gevaarlijke stoffen en het aanmaken van een gebruiksvriendelijke inventaris. (Vera Lore)

2008:

- Risicoanalyse van een H₂O₂ installatie. (Jelle Bakelants)
- Interne noodplanning bij Remi Claeys Aluminium NV en Sapa RC Profiles NV. (Ignace Depoovere)
- De Seveso-regelgeving en het Metatechnisch Evaluatiesysteem toegepast in Visko Teepak. (Karen Evens)
- Het beheer van risicoanalyses bij Janssen Pharmaceutica: een globaal benaderingsproces. (Arne Laurijsen)
- Bewerking van plaatstaal in een KMO. Een brandbeveiligingsanalyse. (Emilie Slabbinck)

Prevent

2016:

- Warehouse 21 project: Buffertanks. Integratie binnen het veiligheidsbeleid (Carolien Liekens)
- Interne en externe noodplannen in een nieuwe Seveso-inrichting in een Transfill plant van Air Products in Nederland (Guy De Reuse)

2014:

- Uniforme Lock-Out & Tag-Out @ BASF Antwerpen (Gunther Hendrickx)
- Risicobeheer en noodplanning bij events (Pascale Wienk)
- Het introduceren van de Structured What if Technique (SWIFT) bij Management of Change (Joris Vangompel)

Promotor of Master theses (only theses successfully defended by the student are mentioned)

KULeuven

2011:

- Ontwikkeling van een kosten/baten analyse van veiligheidsmaatregelen aan de hand van de risicomatrix. (David Vantuyghem)
- De link tussen procesveiligheid en –beveiliging: het verleden en de toekomst. (Laura Heuninck)
- Onderzoek naar de condities en kenmerken van een beveiligingscultuur: creatie van een quickscan ter controle van de sterkte van de beveiligingscultuur. (Hans Jaeken)
- Vergelijkende studie van de beveiligingsaanpak tussen Europa en Italië voor transporten van gevaarlijke goederen. (Eline Neels)

2010:

- Impact van zware industriële ongevallen op veranderende wetgeving in de Europese Unie: een kwalitatieve casestudie van het amendement 2003/105/EG van de Seveso II-richtlijn. (Geert Vierendeels)
- Vergelijkende studie tussen veiligheid en beveiliging. (Inge Dupont)

2009:

- ISO 22000 en voedseltraceerbaarheid bij JAVA Groep. Een toepassing op voedselbeveiliging. (Tine Roelants)

UA

2016:

- Impact van management en incentive systemen op procesveiligheid (Lander Desimpel)

2015:

- Ontwikkelen van een tool voor het uitvoeren van kosten-batenanalyses en kosteneffectiviteitsanalyses voor investeringen in de preventie van niet-zware ongevallen in de procesindustrie (Laurens Cnudde and Floris Janssen)

2014:

- Bonusmanagement in relatie tot bedrijfsveiligheid. (Alissa Popova)
- Integratie van sociale media in het crisismanagement van Solvay. (Laura De Cleen)
- Ontwikkelen van een database voor kleine ongevallen. (Julie Meuris)
- Kosten/baten analyse van preventiemaatregelen bij zware ongevallen in een chemisch bedrijf (bij Total). (Katheleyn Van den Driessche)
- Veiligheidscultuur bij Solvic. (Islamov Khoussayn en Abdelillah El-Kouaa)
- Studie van de veiligheidscultuur bij Infrabel. (Yannick Sijssens)

2013:

- De toekomst van waste management in de chemische industrie: actuele beperkingen (wettelijk, technisch en economisch) en de haalbaarheid van mogelijke vernieuwende oplossingen in de huidige economische realiteit? (Anne Wouters)
- De ontwikkeling van een tool voor het uitvoeren van kosten-baten analyses m.b.t. de preventie van zware ongevallen in de (petro)chemische industrie. (Tom Brijs)

2012:

- Ontwikkeling van een "Rings of Protection Analyse" concept voor security maatregelen in de chemische industrie. (Nathalie Leysen)
- Theoretical concept and empirical study of safety stall points. (Evelien De Kinder)
- Ontwikkeling van een raamwerk voor het optimale plannen van Dreigingsanalyses in complexe bedrijfscontexten. (Dioni Herdewel)
- Koppeling tussen niveau van multi-disciplinariteit van het beslissingsorgaan en de efficiëntie van beslissingen in de veiligheidswetenschap. (Stefan Cardoen)

2011:

- Technologische innovatie en veiligheidsaspecten. (Florence Lenders)
- Onderzoek naar het bestaan van safety stall points. (Joris Jaspers)
- Onderzoek naar het gebruik van DSS'en voor risico-inschattingen van transporten van gevaarlijke goederen. (Ken Dieltiens)
- Speltheoretische studie voor het bevorderen van veiligheid in chemische clusters. (Senne Cuypers)
- Vergelijkende studie van de beveiligingsaanpak tussen Europa en de V.S.. (Sophie Iserbiet)
- Modelleren van een managementsysteem voor duurzaamheid. (Stefan Maas)
- Evaluatie van veiligheidstijdschriften: een empirisch onderzoek. (Yannick Anthone)

2010:

- Ontwikkeling van een model voor de optimalisatie van de bedrijfsbeveiligingscultuur in de chemische industrie. (Jan Buytaert)
- Ontwikkeling van een model dat gebruik maakt van indicatoren voor de optimalisatie van een bedrijfsveiligheidscultuur. (Kristof Cremer)
- Analytisch Hiërarchisch Proces: onderzoek naar terrorismebeveiliging en -preventie in de Antwerpse Haven. (Candide De Bruyn)
- Onderzoek en terrorismepreventie in de Gentse Haven. (Serge Quanjard)

2009:

- Kostenimpact van REACH op bedrijven werkzaam in de Belgische voedingssector. (Hanne Geelen)
- Kostenimpact van REACH op bedrijven werkzaam in de Belgische voedingssector. (Emilie Goris)

2007:

- Een kosten/baten-analyse van de prijs van veiligheid in een onderneming. (Sébastien Busschaert)
- De prijs van 'REACH' vanuit het perspectief van chemische ondernemingen. (Junior Hoorelbeke)
- Studie naar de perceptie van het huidige Belgische arbeidsongevallenbeleid in verschillende industriële sectoren. (Tim Oste)
- De kosten- en batenanalyse voor de veiligheid in chemische bedrijven. Gevalstudie: de correlatie tussen veiligheid en verzekeringskosten in een verfproducerende onderneming. (Véronique Percy)
- Empirisch onderzoek naar de perceptie en de voorbereiding van de Vlaamse chemische industrie op REACH. (Tim Van den Bruel)

- Onderzoek naar de beveiligingsmaatregelen en hun kosten in de chemische procesindustrie. (Thomas Verswyver)

TU Delft

2016:

- Enhancing Critical Infrastructure Resilience Through Stakeholder Dialogue (Janro De Bont) (dit is een thesis uitgevoerd aan de Universiteit Leiden – ik was beoordelaar van de thesis)
- Basisnet Weg(wijzer) voor de Rotterdamse haven. De beschikbare gebruikruimte voor het transport van gevaarlijke stoffen op de Rotterdamse wegen (Refke Gunnewijk) (co-promotor)
- LNG Transportation Chain: an interpreted risk assessment from ship to end user (Naiyanad Songbandid)

2015:

- Safety Assessment of International and Multi-modal Hazardous Materials Transportation (Dimitra Tasoula)
- How interactions between chemical companies are related to process safety in chemical clusters (Maayke Thalen)

2014:

- Checkpoint of the future. An UML based framework for design and analysis (Rik De Graaf)

Promotor and co-promotor of PhD theses

KU Leuven

- Tony Wauters (2014 – Present) (public funding)

UA

- Louisa Shakou (2016 – Present) (public funding)
- Effiong Mkpato (2016 – Present) (private funding)
- Paul Van Lerberghe (2016 – Present) (private funding, in collaboration with UGent)
- Marc Evens (2016 – Present) (private funding, in collaboration with HZS)
- Karen Van Bastelaere (2015 – Present) (public funding, in collaboration with VUB)
- Karolien Van Nunen (2014 – Present) (private funding)
- Marijke De Prins (2007 – 2011) (public funding) (Marijke stopped in 2011 due to personal reasons)

TU Delft

- To be decided (2016 – Present) (private funding)
- Peter Schmidt (2016 – Present) (private funding)
- Sageed Kunhiraman (2015 – Present) (private funding)
- Peter Blokland (2014 – Present) (private funding)
- Guy Van der Schelde (2014 – Present) (private funding)
- Laobing Zhang (2014 – Present) (public funding)
- Michelle Crawford (2013 – Present) (private funding)
- Bart Accou (2013 – Present) (private funding)

Supervisor of internships

KU Leuven

- Floris Goerlandt (Aalto University, Finland) (2015-2016, 1 year)

TU Delft

- Hui Zhang (Nanjing Telecommunication Technology Research Institute, China Electronic System Engineering Corporation (CESEC), China) (2017, 1 year)
- Yu Xuchao (China University of Petroleum, China) (2016-2017, 1 year)
- Donya Fakhrafar (University of Bologna, Italy) (2016, 6 months)
- Amiral Rezazadeh (University of Bologna, Italy) (2016, 8 months)
- Gabriele Landucci (University of Pisa, Italy) (2016, 6 months)
- Jianfeng Zhou (Guangdong University of Technology, China) (2015-2016, 1 year)
- Jie Li (School of Safety and Environmental Engineering, China) (2015, 2 months)
- Valeria Villa (University of Bologna, Italy) (2015, 6 months)
- Jeremie Achille (Chimie-ParisTech, France) (2015, 5 months)
- Francesca Argenti (University of Pisa, Italy) (2014-2015, 6 months)

Development of didactic material

- Developer of DVD-based learning at the practical lab sessions of electrotechnics and electronics at UA.
- Study books & manuals: see 'Intellectual contributions'

PUBLICATIONS (ALL PUBLISHED OR ACCEPTED, NONE ARE 'UNDER REVIEW')

International Refereed Articles (IT journal papers)

- Li Jie, Reniers Genserik, Cozzani Valerio, Khan Faisal.- A bibliometric analysis of peer-reviewed publications on domino effects in the process industry. Accepted for publication (2016) in: Journal of Loss Prevention in the Process Industries.
- Van Nunen Karolien, Reniers Genserik, Ponnet Koen.- Measuring and improving safety culture in organisations: An exploration of tools developed and used in Belgium. Accepted for publication (2016) in: Journal of Risk Research.
- Goerlandt Floris, Khakzad Nima, Reniers Genserik.- Validity and validation of safety-related quantitative risk analysis: a review. Accepted for publication (2016) in: Safety Science.
- Nima Khakzad, Gabriele Landucci, Genserik Reniers.- Application of graph theory to cost-effective fire protection of chemical plants during domino effects. Accepted for publication (2016) in: Risk Analysis
- van Staalduinen Mark Adrian, Khan Faisal, Gadag Veeresh, Reniers Genserik.- Functional quantitative security risk analysis (QSRA) to assist in protecting critical process infrastructure, Reliability engineering and system safety - ISSN 0951-8320 - 157(2017), p. 23-34
- Vermuyten Hendrik, Beliën Jeroen, De Boeck Liesje, Reniers Genserik, Wauters Tony.- A review of optimisation models for pedestrian evacuation and design problems, Safety science - ISSN 0925-7535 - 87(2016), p. 167-178
- Zhou Jianfeng, Reniers Genserik, Khakzad Nima.- Application of event sequence diagram to evaluate emergency response actions during fire-induced domino effects, Reliability engineering and system safety - ISSN 0951-8320 - 150(2016), p. 202-209
- Khan Faisal, Hashemi Seyed Javad, Paltrinieri Nicola, Amyotte Paul, Cozzani Valerio, Reniers Genserik.- Dynamic risk management : a contemporary approach to process safety management, Current Opinion in Chemical Engineering - ISSN 2211-3398 - 14(2016), p. 9-17
- Van Nunen Karolien, Reniers Genserik, Ponnet Koen, Cozzani Valerio.- Major accident prevention decision-making : a large-scale survey-based analysis, Safety science - ISSN 0925-7535 - 88(2016), p. 242-250
- Goerlandt Floris, Reniers Genserik.- On the assessment of uncertainty in risk diagrams, Safety science - ISSN 0925-7535 - Amsterdam, Elsevier science bv, 84(2016), p. 67-77
- Zarei Esmaeil, Khakzad Nima, Reniers Genserik, Akbari Reihane.- On the relationship between safety climate and occupational burnout in healthcare organizations, Safety science - ISSN 0925-7535 - 89(2016), p. 1-10
- Zhou Jianfeng, Reniers Genserik.- Petri-net based modeling and queuing analysis for resource-oriented cooperation of emergency response actions, Process safety and environmental protection / Institution of Chemical Engineers [London] - ISSN 0957-5820 - 102(2016), p. 567-576
- Zhou Jianfeng, Reniers Genserik.- Petri-net based simulation analysis for emergency response to multiple simultaneous large-scale fires, Journal of loss prevention in the process industries - ISSN 0950-4230 - 40(2016), p. 554-562
- Talarico Luca, Reniers Genserik.- Risk-informed decision making of safety investments by using the disproportion factor, Process safety and environmental protection / Institution of Chemical Engineers [London] - ISSN 0957-5820 - 100(2016), p. 117-130
- Zhou Jianfeng, Reniers Genserik.- Simulation analysis of the use of emergency resources during the emergency response to a major fire, Journal of loss prevention in the process industries - ISSN 0950-4230 - 44(2016), p. 1-11
- Khakzad Nima, Reniers Genserik, Abbassi Rouzbeh.- Khan Faisal, Vulnerability analysis of process plants subject to domino effects, Reliability engineering and system safety - ISSN 0951-8320 - 154(2016), p. 127-136
- Khakzad Nima, Reniers Genserik.- Application of Bayesian network and multi-criteria decision analysis to risk-based design of chemical plants, Chemical engineering transactions - ISSN 2283-9216 - 48(2016), p. 223-228
- Villa Valeria, Reniers Genserik, Cozzani Valerio.- Application of cost-benefit analysis for the selection of process-industry related security measures, Chemical engineering transactions - ISSN 2283-9216 - 53(2016), p. 103-108
- Argenti Francesca, Landucci Gabriele, Reniers Genserik.- Probabilistic vulnerability assessment of chemical clusters subjected to external acts of interference, Chemical engineering transactions - ISSN 2283-9216 - 48(2016), p. 691-696
- Swuste Paul, Theunissen Jos, Schmitz Peter, Reniers Genserik, Blokland Peter.- Process safety indicators : a review of literature.- Journal of loss prevention in the process industries - ISSN 0950-4230 - Oxford, Elsevier sci ltd, 40(2016), p. 162-173
- Talarico Luca, Reniers Genserik.- Risk-informed decision making of safety investments by using the disproportion factor.- Process safety and environmental protection / Institution of Chemical Engineers [London] - ISSN 0957-5820 - 100(2016), p. 117-130
- Achille Jeremie, Ponnet Koen, Reniers Genserik.- Calculation of an adjusted Disproportion Factor (DF*) which takes the societal acceptability of risks into account. accepted for publication (2015) in: Safety Science
- Khakzad Nima, Reniers Genserik.- Cost-effective allocation of safety measures in chemical plants considering land-use planning.- accepted for publication (2015) in: Safety Science.
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Hoge druk adsorptie van koolwaterstoffen op zeolieten.

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SERVICE

Service to the University

Memberships within universities:

February 2015 – Present: Academic Director of the Leiden-Delft-Erasmus (LDE) Safety and Security Center; LDE is an inter-university Center to stimulate inter-university cooperation, research, and education

2014-2016: Coordinator of Prevention Team within KULeuven, Campus Brussels

2008-2013: Council of Team coordinators of KULeuven, Campus Brussels

2011-2012: Research Commission of UA

2009-2012: Faculty Council of UA

2008-2009: Strategic Commission for Research for UA

2003-2012: Department Committee of UA

Assurance Of Learning - Institutional Service:

2004-2008: Academic ombudsman for commercial engineering students at UA

Member of jury of PhD defenses:

2016: Member of the PhD Jury of the PhD defense of Behrouz Hemmatian (Universidad Polytecnica de Catalunya, Spain), PhD thesis title: 'Contribution to the study of the BLEVE phenomenon'

2016: Member of the PhD Jury of the PhD defense of Gwendolyn Bakx (Delft University of Technology, the Netherlands), PhD thesis title: 'Safety in large-scale socio-technological systems: insights gained from a series of military systems studies'

2016: Member of the PhD Jury of the PhD defense of Francesca Argenti (University of Pisa, Italy), PhD thesis title: 'Domino effect in the process industries: methodologies for the assessment of safety barriers'

2016: Member of the PhD Jury of the PhD defense of Mingxin Zhang (Delft University of Technology, the Netherlands), PhD thesis title: 'Large-scale agent-based social simulation'

2016: Member (Secretary) of the PhD Jury of the PhD defense of Jochen Janssens (University of Antwerp, Belgium), PhD thesis title: 'Design and analysis of models and algorithms for optimization in networks'

2016: Member of the Jury of the PhD defense of Hongyang Yu (University of Tasmania, Australia), PhD thesis title: 'Development of advanced fault diagnosis techniques for complex industrial processes'

2016: Member of the Jury of the PhD defense of Nadia Baati (Ecole Polytechnique Federale de Lausanne, Switzerland), PhD thesis title: 'Predictive models for thermal stability and explosive properties of chemicals from molecular structures'

2016: Member of the Jury of the PhD defense of Ambituuni Ambisizi (Newcastle University, UK), PhD thesis title: 'A risk management framework for downstream petroleum product transportation and distribution in Nigeria'

2016: Member (President) of the Jury of the PhD defense of Indra Vonck (University of Antwerp and VUB, Belgium), PhD thesis title: 'Resilience in seaports: dealing with turbulent environments'

2015: Member of the Jury of the PhD defense of Hongyan Yu (Memorial University of Newfoundland, Canada), preparing a PhD on risk-based process fault detection and diagnosis

2015: Member of the Jury of the PhD defense of Sirirat Somapa (University of Antwerp, Belgium), PhD thesis title: 'An essay on supply chain visibility: from antecedents to business value creation'

2015: Member of the Jury of the PhD defense of Luca Talarico (University of Antwerp, Belgium), PhD thesis title: 'Secure Vehicle Routing: models and algorithms to increase security and reduce costs in the cash-in-transit sector'

2015: Member of the Jury of the PhD defense of Yasmine Benamrane (Mines-ParisTech, France), PhD thesis title: 'La gestion des situations d'urgence à l'interface entre entreprise et décision. Quelle place pour les outils de modélisation des dispersions NRBC-E et leur conséquences?'

2014: Member (reserve member) of the Jury of the PhD defense of Marieke Kluin (Delft University of Technology, the Netherlands), PhD thesis title: 'Optic Compliance. Enforcement and compliance in the Dutch chemical industry'

2014: Member (Secretary) of the Jury of the PhD defense of Siyuan Wang (University of Antwerp, Belgium), PhD thesis title: 'A Dual Perspective on the LNG Maritime business: LNG as Shipping Cargo and LNG as a Ship Fuel'

2014: Member of the Jury of the PhD defense of Jeanne Van Buren (Delft University of Technology, the Netherlands), PhD thesis title: 'Principles and management of information process for integrated management of fire safety at Seveso sites'

2012: Member of the Jury of the PhD defense of Nima Khakzad (Memorial University of Newfoundland, Canada), PhD thesis title: 'Dynamic safety analysis using advanced approaches'

2012: Member of the Jury of the PhD defense of U. K. Chakrabarti (Sardar Vallabhbhai National Institute of Technology, India), PhD thesis title: 'Highway hazmat transportation: A comprehensive risk-based route evaluation'

2012: Member of the Jury of the PhD defense of Nicola Paltrinieri (University of Bologna, Italy); PhD thesis title: 'Development of advanced tools and methods for the assessment and management of risk due to atypical major accident scenarios'

Other Institutional Service Activities:

2010 – Present: Course module coordinator of PAVO Advisor Dangerous Substances (organized at the Department of Chemistry of UA)

2008-2015: Course Coordinator: Course coordinator of the course 'Maritime Safety and Security' taught at ITMMA

Service to the Profession

Chairs and coordinators

2016-Present: Co-Chair of the Technical Committee on Occupational Safety within ESRA (European Safety and Reliability Association)

2016-Present: Chair for the Area on Education, Training and Standardization within the European Technology Platform Safety-Security

2012-2016: (co-)Coordinator of the NECTAR cluster 7 on "Transport Security"

Member of evaluation commission

2016: Member of the Jury of the 'Accenture Innovation Awards 2016' (National, the Netherlands).

2015-2016: member of the International Scientific Advisory Board of the CascEff European Project (International)

Sept. 2015: Member of the evaluation commission for the Lectorate of the Lector Transport Safety (Nils Rosmuller) installed by the IFV and TNO in the Netherlands (National)

2015: member of steering committee of project on "De invloed van nieuwe technologieën in het kader van diefstalpreventie en diefstalbestrijding", Vives Hogeschool Kortrijk and Universiteit Antwerpen, Belgium (National)

Academic Conference: Organizer

2019: Loss Prevention International Conference (International) at the TUDelft.

28-29 April 2015: Workshop of the Loss Prevention Working Party (LPWP) (International) at the TUDelft.

2013: Workshop of the Loss Prevention Working Party (LPWP) (International) at the University of Antwerp.

2013: ISBT 2013 International Society of BioTechnology conference (International) at the University of Antwerp.

2013: ICCE 2013 International Congress of Chemistry and Environment (International) at the University of Antwerp.

2012: Workshop for the Energy Infrastructure Security Network (EISN) (International) at the University of Antwerp.

2011: SAFE 2011 International Conference (International) at the University of Antwerp.

2011: Sustainable Chemistry 2011 International Conference (International) at the University of Antwerp.

2010: Loss Prevention International Conference (International) in Bruges.

Academic Conference: President of the Conference

2019: LP 2019 - Loss Prevention International Conference (International) at the TUDelft.

2016: Relevant (National, the Netherlands) in Amersfoort, the Netherlands

2011: SAFE 2011 (International) at the University of Antwerp

2011: Sustainable Chemistry Conference (International) at the University of Antwerp

Stakeholders meeting: organizer

- February 2017: 3rd stakeholders meeting for the Platform for Safety in the Gas Distribution (National) at the TUDelft

- 9 March 2016: 2nd stakeholders meeting for the Platform for Safety in the Gas Distribution (National) at the TUDelft

- 11 February 2015: 1st stakeholders meeting for the Platform for Safety in the Gas Distribution (National) at the TUDelft

Risk Management Course: Organizer

2013: Principles of process safety management Course, ie-net.

2010: Integrated Risk Management (including ISO31000) Course, KVIV.

Academic Conference: Discussant

2002: 16th World Congress on Safety and Health at Work, Vienna, Austria (International).

Academic Conference: Moderator / Facilitator

2017: SAFE 2017 International Conference (International).

2016: ESREL 2016 International Conference (International).

2015: Ravage of the Planet 2015 International Conference (International).

2015: SAFE 2015 International Conference (International).

2013: SAFE 2013 International Conference (International).

2011: SAFE 2011 International Conference (International).

2009: SAFE 2009 International Conference (International).

Academic Conference: Participant

On average 4 conferences per year.

Much/most interesting visited conferences: Loss Prevention (Europe), SAFE (Europe), CISAP (Italy), ESREL (Europe), NECTAR (world), MKOPSC loss prevention conference (USA), Workshop on harsh environments (Canada), EMChie (Europe), Relevant (the Netherlands)

Board Member: Advisory Board

2009: Safety and Security Engineering (SAFE) Conference series, member of the International Scientific Advisory Committee of the SAFE conferences since 2009 (International).

Board Member: PRJ Editorial Review Board

2013: International Journal of Chemistry, Member of Editorial Board since 2013 (International).

2011: Wessex Institute of Technology, International Journal of Sustainable Development and Planning – Board member since 2011 (International).

2009: Wessex Institute of Technology, International Journal of Safety and Security Engineering - Board member since 2009 (International).

2008: Disaster Advances (International Journal), Member of Editorial Board since 2008 (International).

Editor: Receiving Editor

2016-present: editor of the open access journal of the Safety and Security Science group of the TUDelft called "Journal of Integrated Security Science"

2012-present: Elsevier Publishing Company, Journal of Loss Prevention in the Process Industries - Receiving Editor since 2012 (International).

Editor: Associate Editor

2011: Elsevier Publishing Company, Safety Science - Associate Editor since 2011 (International).

2009-2012: Elsevier Publishing Company, Journal of Loss Prevention in the Process Industries (International).

Editor: Guest Editor

Guest editor of the following Special Issues of high quality Thomson Impact Factor academic journals:

2017: SI of JLPPI on 'Risk Analysis in the Process Industries: State-of-the-art and the Future'

2017: SI of RESS on 'Quantitative security analysis of industrial facilities'

2016: SI of Safety Science on 'Harsh Environments'

2016: SI of JLPPI on 'The Seveso Disaster and its 40-year legacy to Process Safety'

2016: SI of Safety Science on 'Risk Analysis validation and trust in risk management'

2015: SI of RESS on 'domino effects in the process industries: advancing the state-of-the-art'

2014: SI of JLPPI on 'Process Safety Pioneers'

2013: SI of JLPPI on 'Process Safety and globalization'

2013: SI of JLPPI on 'Security in the process industries'

2012: SI of JLPPI on 'Happy 90th birthday, Trevor!'

2009: SI of Disaster Advances on 'Man-made disasters'

Editor: Book Series Editor

2016: editor of a Book Series on "Integrated Security Science", published by De Gruyter, Berlin, Germany.

Invited moderator

2016: Moderator at the KIVI yearly conference on 'responsible safety innovation', Gorinchem, the Netherlands (National), 30 November 2016.

2016: Moderator at the Relevant Conference on External Safety and the new Dutch Law on the surrounding in Amersfoort, the Netherlands, 24 November 2016.

2016: Moderator at the FETSA annual meeting, meeting 'Tank storage and Europe' in Antwerp (International), 9 June 2016

2016: Moderator for 4 sessions at the Loss Prevention 2016 Conference in Freiburg (International), Germany, 5-8 June 2016.

2016: Moderator at the VTI Research Day 2016, 23 May 2016.

2016: Moderator for 2 sessions at the 6th national conference on safety engineering & HSE Management, Iran, 1-3 March 2016

2015: Moderator for 3 sessions at the Ravage of the Planet IV Conference in Opatija, Croatia, 1-3 July 2015.

2015: Moderator at the SAFE 2015 Conference in Opatija, Croatia, 6-8 May 2015.

2013: Moderator at the FETSA annual meeting, meeting 'License to operate' in Antwerp (International), 30 May 2013.

2013: Moderator for 5 sessions at the Loss Prevention 2013 Conference in Florence (International), Italy, 12-15 May 2013.

2011: Moderator for the Seminar 'Efficient Security Policy' at the SECURA Conference in Brussels (National), 24 March 2011.

2008: Moderator of a debate at Olefins market dynamic: analyzing the growth outlook of an accelerating industry, Platts Conference, Brussels, Belgium (International).

Invited Lecture

8 November 2016: Kluwer Webinar, Presentation on Return on Investment, Mechelen, Belgium (National, Belgium).

26 October 2016: Forum Seveso-inrichtingen en deskundigen (LNE Seminar), Presentation on 'Future directions of safety in Flanders' chemical industry: Safety first, second nature', Ghent, Belgium (National – Belgium).

13-14 October 2016: Study travel of Mayors from the Netherlands to the Ruhr area in Germany, with seminar on board of the ship, Presentation on 'Acceptability of risks within the Dutch chemical industry', River Rhine, the Netherlands and Germany.

11 October 2016: Studium Generale of Technical University Eindhoven, Presentation on 'Safety first. Safety and security within the Dutch chemical industry for the next decades.', Eindhoven, the Netherlands (National – the Netherlands).

14 September 2016: High Level meeting for increasing safety in the Dutch chemical industry, Presentation on 'Safety in the chemical industry – from a sustainability viewpoint', The Hague, the Netherlands (National – the Netherlands).

31 May 2016: ATEX Conference, Presentation on 'Process safety and micro-economic aspects of decision-making', 's Hertogenbosch, the Netherlands (National – the Netherlands).

3 December 2015: Prenne conference, Presentation on 'Aanvaardbaarheid van risico's in een succesvolle onderneming', Edegem, Belgium (National – Belgium).

27 November 2015: CTGG Conference, Presentation on 'Security can and must be improved in the Dutch chemical industry', Amsterdam, the Netherlands (National – the Netherlands).

25 November 2015: Lunch debate on counter-terrorism, organized by the students association of the United Nations, Antwerp, Belgium (National - Belgium).

24 November 2015: NIBHV Conference, Presentation on 'From a "risk-based" approach towards a "risk-oriented" approach', Ede, the Netherlands (National, the Netherlands).

7 October 2015: VBE Conferentie , Presentation on 'Performance management in relation to fire safety', Gorinchem, the Netherlands (National – the Netherlands).

30 September 2015: VNCW Conference ("Chemiebeurs VNCW"), Presentation on 'Dealing with risks and uncertainties via performance management science', Dordrecht, the Netherlands (National).

23 September 2015: The use of economics in operational safety, RAMS-group, NTNU, Trondheim, Norway (International).

8 September 2015: Round Table Safety, Presentation on safety: future perspectives, Zeist, the Netherlands (National).

10 July 2015: Summerschool TUDelft, Presentation on Safety in the chemical industry, Delft, the Netherlands (International).

2 June 2015: BRZO Leeractiviteit (SSR), Presentation on Process safety – the fundamentals, Katwijk-aan-zee, the Netherlands (National).

28 May 2015: Arcadis conference on external safety, Presentation on state-of-the-art advancements in Process safety, Rotterdam, the Netherlands (National).

18 May 2015: Research Day VTI, Presentation on risk-oriented decision-making and economics, Delft, the Netherlands (National).

11 February 2015: Platform of Safety in the gas distribution, Presentation on 'Gasveiligheid, wat kan er nog in de maatschappij?', Delft, the Netherlands (International).

22 Jan 2015: CGC Conference (organized by NVVK), Presentation on 'The future of process safety indicators', Antwerpen, Belgium (International).

19 Jan 2015: PhD Day of DSyS, Presentation on DSyS and Safety within TUDelft, Delft, the Netherlands (International).

2014: Veiligheid in de procesindustrie: een overzicht, Presentation at the Stoomplatform, University of Ghent, Ghent, Belgium (National).

2014: Promoting safety & security culture within chemical industry and academia, Presentation at Chemical Weapons Seminar, TUDelft, Delft, the Netherlands (International).

2014: Veiligheid is een 'conditio sine qua non' voor blijvend success, Presentation at the Graduation Ceremony at the TPM faculty of the TUDelft, Delft, the Netherlands (National).

2014: Security in the chemical industry, Presentation at the ASIS Security Management Congres 2014, Nijkerk, the Netherlands (International).

2014: Gasveiligheid, Wat kan er nog in de maatschappij?, Presentation at SoDM, the Hague, the Netherlands (National).

2013: Vormgeven aan de directierol van BRZO-bedrijven, Presentation at the BRZO Masterclass, Briell, the Netherlands (National).

2013: Total Respect Management: from good to great, Presentation to Deltalinqs Masterclass BRZO, Rotterdam, the Netherlands (National).

2013: Performance Management: From Good to Great, Presentation for Infrabel (Belgian railways), Brussels, Belgium (National).

2013: Optimal allocation of safety and security resources, Loss Prevention 2013 conference, Florence, Italy (International).

2012: Risico-management en preventie-investeringen: de moeite waard?, Presentatie voor groep CEO's van betonbedrijven, Bruges, Belgium (National).

2012: Het beheren en beheersen van operationele bezettingen, Info-sessie Seveso bedrijven Oost-Vlaanderen (National).

2012: European Technology Platform for Industrial Safety: 'Challenges for safety and security research', Brussels, Belgium (International).

2009: Invited speaker at the Delta Process Academy, Meeting 'Management Of Change' in the chemical industry (National).

2008: Invited speaker at Platts meeting, Meeting title: 'Olefins market dynamic: analyzing the growth outlook of an accelerating industry' (International).

2007: European Chemical Transportation Association, ECTA conference, Berlin, Germany (International).

2007: International Nash Symposium, Invited lecture title: 'The chemical industry: how to play safe to be secure', University of Antwerp, Antwerp, Belgium (International).

Keynote Address

1 March 2016: New trends in process safety, 6th national conference on safety eng. & HSE mgt, Teheran, Iran (International).

8 December 2015: Safety and Security – Responsibility and Awareness, European Parliament at K4I event organized by LDE, Brussels, Belgium (International).

4 June 2015: Process Safety (PS) Congress, Dordrecht, the Netherlands (National – the Netherlands)

24 March 2015: Yokohama National University, Yokohama, Japan (International).

2014: Relevant Congress of external safety, Amersfoort, the Netherlands (National – the Netherlands)

2014: 2014 PhD Winter School of Nitim Network, The Hague, the Netherlands (International).
2014: 6th international conference on safety and environment in process & power industry, Bologna, Italy (International).
2010: International conference of disaster prevention technology and management (DPTM 2010), Chongqing, China (International).

Member: Committee/Task Force

2016-Present: Member of the Task force on 'Process Safety of the 21st century and beyond', organized by the Mary Kay O'Connor Process Safety Center (MKOPSC).
2011-present: Member of the Working Party of Loss Prevention Conference series (ISAC)
2010: Loss Prevention 2010, Member of the Organizing Committee of Loss Prevention 2010 (international conference) (International).
2010-present: Coordinator NECTAR Transportation Security, Co-organizer of Nectar Transport Security Workshops (International).

Other Professional Service Activities

2015: Independent evaluator of the project on "Beschrijving van de SEVESO-wetgeving in Vlaanderen en de inspectie van SEVESO-bedrijven in de haven van Antwerpen", Deloitte and Laga, Antwerpen, Belgium
2014: Secretary for Workshop by European Commission on Industrial Safety (International).
2008-present: Fellow Member, International Congress of Disaster Management, Fellow Member since 2009 (International).
2007: REACH Seminar, Organizer of the REACH Seminar 'Collaboration in the chemical industry: implementing REACH', Antwerp, Belgium (National).
2005: European Petro Chemical Association (EPCA), Facilitator for two Think Tanks ('skills, talent & training', and 'safety, security, environment, sustainability and compliance'), Brussels, Belgium (International).

Reviewer: regular reviewer for following journals

Journal of Loss Prevention in the Process Industries
Journal of Cleaner Production
Journal of Hazardous Materials
Reliability Engineering and System Safety
Safety Science
Risk Analysis

Service to the Community

President of Platform

2014 – Present: President of the Platform for Gas Distribution Safety in the Netherlands

Member of a Committee

2016 - Present: Member of the Council for development of a hazmat transportation risk analysis methodology for Flanders. LNE, Flemish Government)
2014 – Present: Member of the "Adviesraad Transportveiligheid" (Advisory Council Transport Safety) in the Netherlands
2013: TWOL (Applied Scientific Research Environment), Member of the steering committee of the 'TWOL Transport risk analysis system' for the Flemish Government (2012-2013)
2011: TWOL (Applied Scientific Research Environment), Member of the steering committee of the 'TWOL Transport risk analysis system – Tunnels and other specs' for the Flemish Government (2010-2011)
2010: TWOL (Applied Scientific Research Environment), Member of the steering committee of the 'TWOL Transportation of Hazardous Substances' for the Flemish Government (2010-2011)
2009: TWOL (Applied Scientific Research Environment), Member of the steering committee of the 'TWOL Feasibility Unification Risk calculation program' for the Flemish Government (2009-2010)
2009: Member of the Scientific Council of PRIMO (Public Risk Management Organisation)
2008: TWOL (Applied Scientific Research Environment), Member of the steering committee of the 'TWOL Transportation of hazardous substances' for the Flemish Government (2008-2009)
2008: TWOL (Applied Scientific Research Environment), Member of the steering committee of the 'TWOL Domino effects' for the Flemish Government (2008-2009)
2008: Member of the Environment technology Committee of KVIV (2008 - Present)
2008: Secretary for the Safety Committee of KVIV (2008 - Present)

HONORS AND AWARDS

2014: Winner of 'best researcher' Award within S3G, VTI, TUDelft. Financial contribution: free open access publication

2012: Promotor of the Master thesis by Stefan Maas winning the prestigious Phillippe De Woot Award. Financial contribution: 3000€. Vlerick Management School.

2008: Winner Academic Price 'Prof. Albert Beken'. This Price is awarded once every two years to pioneering doctoral research within the Faculty of Applied Economic Sciences at the University of Antwerp. Financial contribution: 5000€. University of Antwerp.