

Frederick Benaben, Ph.D.

Tenured Full Professor “*Exceptional Class*” – IMT – France

Adjunct and Visiting Professor – Georgia Tech ISyE – USA

*Artificial Intelligence and Immersive Technologies
for Resilient Management in Unstable Environments*

Curriculum Vitae

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Updated: 02.2026

Frederick Benaben, Ph.D.

Birth: **1974 March 9th** (52yo)

Citizenship: **French**

Civil state: **Married with Lysiane since 2005, father of Nino (19), Luz (16) and Lia (12)**

Languages: **French and English**

Living in: **Atlanta, GA, USA**

Tenured Full Professor – Centre Génie Industriel – Institut Mines Telecom – France

Head *DiSCS* group (Digital Systems for Crisis Management and Security)

Visting Professor – Industrial and Systems Engineering – Georgia Tech – USA

Co-Director *SIReN* Lab (Sentient Immersive Response Network)

- **AI** and **VR/AR/XR** for **Industrial Engineering** and **Risk/Crisis Management**
- **€10M** obtained in **funding** over the last **20 years**, including **€6M** in the past **5 years**
- Nearly **40 PhD** Theses and **30 postdoctoral** research projects as advisor
- **50+ journal articles and chapters** and **200+ international conference papers**

<https://www.isye.gatech.edu/users/frederick-benaben>

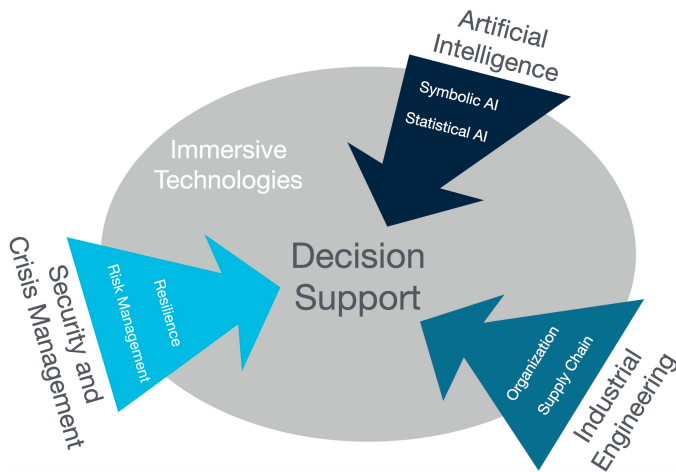
Structure of the Document

RESEARCH INTERESTS	2
EDUCATION AND ACADEMIC QUALIFICATIONS	3
ACADEMIC APPOINTMENTS	3
ACADEMIC RESPONSIBILITIES	4
GRANTS & FUNDING	5
DIRECTING & MENTORING	8
PUBLICATIONS	14
MAIN INVITED TALKS & PRESENTATIONS	34
SELECTED HONORS & AWARDS	38
TEACHING EXPERIENCE	39
SERVICE TO THE PROFESSION	41
COMPLEMENTS AND VOLUNTEERING	43

RESEARCH INTERESTS

Frederick Benaben is an “**Exceptional Class**” **Full Professor** (tenured) at the *Centre Génie Industriel* of the Institut Mines Telecom (IMT Mines Albi) where he heads the *Digital Systems for Security and Crisis Management* team (DiSCS). He is also responsible for the IOMEGA experimentation & demonstration platform ([360° video of IOMEGA](#)). He also leads initiatives about the R-IO Suite software platform and the Physics Of Decision (POD) theory. Since 2022, he is a **Visiting Professor** in the ISyE School of Industrial Engineering at Georgia Tech, where he is co-director of the Sentient Immersive Response Network (SIReN) Lab, a joint initiative between Georgia Tech and Institut Mines Telecom.

Frederick Benaben's research activities focus primarily on **Decision Support** and stand at the crossroads of Artificial Intelligence (symbolic AI and statistical AI), Crisis Management (Risk Management and Resilience), and Industrial Engineering (Supply Chain and Organization management), using Immersive Technologies (Virtual / Augmented and Extended realities).



More specifically, Frederick Benaben has been conducting research for 20 years based on (i) close collaboration with industrial partners (DASSAULT SYSTEMES, SCALIAN, EPSI, AIRBUS, THALES, IMMERSIVE FACTORY), (ii) the systematic development of advanced demonstration prototypes ([POD](#), [HITeC](#), [EGCERSIS](#), [R-IO Suite](#)) and (iii) the scientific and technological interdisciplinarity most appropriate for the emergence of truly innovative solutions (Artificial Intelligence, Immersive Technologies, Model-Driven Engineering, Human Computer Interactions, Knowledge Representation).

Frederick Benaben identifies two research philosophies: Need-Pulled (market-oriented) and Innovation-Pushed (discovery-oriented). These are two different but paired ways of achieving innovation, seen as the ability to push the world toward the next steps of its trajectory. **Applied research** lies at the intersection of both these approaches, schematically drawing from fundamental and interdisciplinary results (i) avenues of solutions to meet society's needs and (ii) inspiration to shape the future of innovation. This is an important idea which greatly explains the **Interdisciplinary** dimension of Frederick Benaben's research. For him, it is then a question of navigating with discernment between **need-pulled** and **innovation-pushed** research in order to leverage the three pillars he considers fundamental to conducting research: **imagination, rigor, and ambition**.

EDUCATION AND ACADEMIC QUALIFICATIONS

- **2013 – National Qualification for Full Professor**, Section 61 (Computer Science and Industrial Engineering), *French University Council (CNU)*
- **2012 – Habilitation à Diriger les Recherches (HDR)**, Industrial Systems, *Toulouse University INPT (France)*
- **2003 – National Qualification for Associate Professor**, Section 27 (Computer Science and Programming), *French University Council (CNU)*
- **2001 – Ph.D. in Computer Science**, *Montpellier University (France)*
- **1998 – M.S. in Automatic Control Systems**, *Montpellier University (France)*
- **1998 – Diplôme d'Ingénieur (equivalent to M.S.) in Computer Science**, Major in *Artificial Intelligence*, *École des Mines d'Alès - EERIE (France)*
- **1992-1995 – Classes Préparatoires aux Grandes Écoles (CPGE)**, Mathematics & Physics, *Lycée Claude Fauriel, Saint Etienne (France)*
- **1992 – French Baccalauréat (Honors)**, Sciences track, *Lycée Claude Lebois Saint Chamond (France)*

ACADEMIC APPOINTMENTS

- **2022-present – Visiting Professor**, Georgia Institute of Technology, ISyE (Industrial and Systems Engineering), *Atlanta, USA*
- **2016-present – Full Professor (Tenured)**, IMT Mines Albi (Exceptional Class 2024, 1st Class 2020, 2nd Class 2017), CGI (Centre Génie Industriel), *Albi, France*
- **2019-present – Adjunct Professor**, Georgia Institute of Technology, ISyE, *Atlanta, USA*
- **2017-2023 – Adjunct Professor**, Beijing JiaoTong University, SEM (School of Economics and Management), *Beijing, China*
- **2018-2019 – Visiting Professor**, Georgia Institute of Technology, ISyE, *Atlanta, USA*
- **2012-2016 – Associate-Professor (Habilitated Tenured)**, IMT Mines Albi, CGI, Albi, France
- **2003-2012 – Associate-Professor (Tenured)**, IMT Mines Albi, CGI, Albi, France
- **2001-2003 – Postdoctoral Research Fellow**, IMT Mines Alès, LGI2P (Laboratoire de Génie Informatique et d'Ingénierie de Production), Nîmes, France
- **1998-2001 – Ph.D. Student (CIFRE Industrial Grant with THALES Optronique)**, IMT Mines Alès, LGI2P, Nîmes, France

ACADEMIC RESPONSIBILITIES

TEAM LEADERSHIP

- **2019-present** – **Co-Director**, **SIReN Lab** (Sentient Immersive Response Network Lab), Associated International Laboratory between **IMT / CGI** and **Georgia Tech / SCL**
- **2024-present** – **Head**, **DiSCS** Research Team (Digital Systems for Crisis management and Security), 20+ research fellows (Professors, Engineers, Postdoctorates, Ph.D. students), **IMT**, Albi, France
- **2018-2024** – **Head**, **SGC** Research Team (Security and Crisis Management), 15+ research fellows (Professors, Engineers, Postdoctorates, Ph.D. students), **IMT**, Albi, France
- **2012-2018** – **Head**, **IO** Research Team (Interoperability of Organizations), 20+ research fellows (Professors, Engineers, Postdoctorates, Ph.D. students), **IMT**, Albi, France

UNDERGRADUATE / GRADUATE STUDIES RESPONSABILITIES

- **2020-present** – **Responsible**, **Cross-Disciplinary Teaching Program on Ecological, Digital and Industrial Transitions 2nd and 3rd year Diplôme d'Ingénieur** (equivalent to M.S.), **IMT**, Albi, France
- **2015-2020** – **Director**, **Information System Major 3rd year Diplôme d'Ingénieur** (equivalent to M.S.), **IMT**, Albi, France
- **2005-2015** – **Responsible**, **Cross-Disciplinary Teaching Program on Information System 1st year Diplôme d'Ingénieur** (equivalent to B.S.), **IMT**, Albi, France

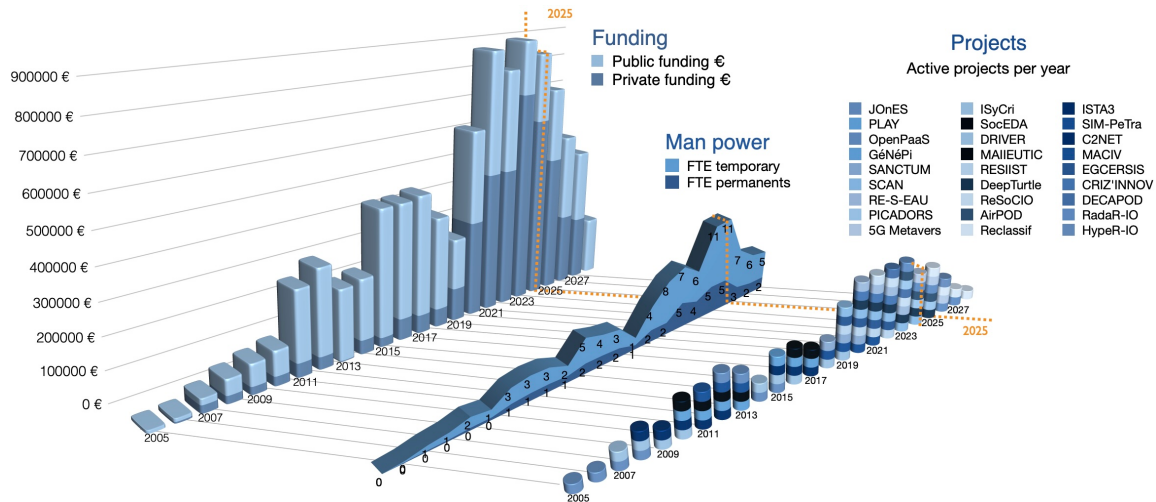
LONG-TERM VISIONARY PROJECT

- **2007-present** – **Pilot**, **R-IO Suite** AI-based research platform for *Data* interpretation, *Information* visualization, *Decision* support and *Action* implementation to improve Resilience and Crisis Management, **IMT**, Albi, France
- **2017-present** – **Pilot**, **POD** (Physics OF Decision) AI and VR-based environment to implement *Descriptive*, *Predictive* and *Prescriptive Business Sentience*, the next generation of *Business Intelligence*, **IMT**, Albi, France
- **2022-present** – **Pilot**, **HiTeC** (Hybrid Immersive Teaching Campus) Use of immersive technologies for teaching and training, the next generation of *Online Teaching*, **Georgia Tech**, Atlanta, USA & **IMT**, Albi, France

INFRASTRUCTURE RESPONSIBILITY

- **2019-present** – **Responsible**, **IOMEGA-VR** Physical platform dedicated to support all research works on Artificial Intelligence and Immersive Technologies, **IMT**, Albi, France
- **2019-present** – **Co-Responsible**, **SIReN Lab** Physical platform dedicated to support all research works on Immersive Technologies (VR), **Georgia Tech**, Atlanta, USA

GRANTS & FUNDING



PRIVATE FUNDINGS (since 2020) – 4.4M€

- **2023-present – RADAR-IO – Industrial Chair**, Using A.I. to improve Radar Diagnostic, **1M€ (200k€/y)** Company **EPSI – P.I.**
- **2020-present – DEEP-TURTLE – Industrial Chair**, Using LLM to improve Business Process Agility, **675k€ (135k€/y)** Companies **ITEROP / DASSAULT Systèmes – P.I.**
- **2019-present – SCAN – Industrial Chair**, Using A.I. and V.R. for Descriptive Analytics in Supply Chain, Albi, **810k€ (150k€/y)** Company **SCALIAN – P.I.**
- **2023-2025 – AIR-POD – Industrial Chair**, Using A.I., V.R. and Simulation for Descriptive and Predictive Analytics in Assembly Lines, **500k€ (165k€/y)** Company **AIRBUS – P.I.**
- **2020-2023 – RE-S-EAU – Industrial Chair**, Model-Based Predictive Maintenance and Risk Management for Crisis Prevention, **600k€ (200k€/y)** Company **VEOLIA eau – co-P.I.**
- **2019-2022 – EGCERSIS – Direct Funding + EU/FEDER**, Future Training in Crisis Management of First Responders and Decision Makers, using V.R., A.I. and Analytics, **450k€ (150k€/y)** Companies **Report One / Immersive Factory – P.I.**

PUBLIC FUNDINGS (since 2020) – 2.1M€

- **2026-2027 – HypeR-IO – CARNOT**, Study of the R-IO Suite platform for extracting a light application demonstrating industrialization potential, **45k€ – P.I.**
- **2024-2028 – 5G METAVERSE – FR/BPI**, Using 5G Networks, Artificial Intelligence and Virtual Reality to create operational Industrial Digital Twins, **650k€ Partners AIRBUS, BOA CONCEPT, IMMERSIVE FACTORY, ORANGE, SHIFT89, IMT – Local P.I.**
- **2025-2028 – RECLASSIF – FR/ANR**, Creating the next Learning Environments for Industry of the Future using Virtual Reality and Artificial Intelligence, **350k€ Partners ARTS ET METIERS, IMT – Local P.I.**

March 2026

- **2023-2025 – PICADORS – EU/FEDER**, Combining Simulation and Artificial Intelligence to exploit heterogeneous data in crisis context, **150k€ Partners** **SDIS62, IMT – Local P.I.**
- **2022-2024 – DECAPOD – FR/MinECOLGY**, Using Artificial Intelligence and Virtual Reality for Decision Making during Ecological Crisis, **140k€ Partners** **CEREMA, IMT – P.I.**
- **2021-2024 – ReSoCio – FR/ANR**, Using Artificial Intelligence for automated interpretation of Unstructured Data from social media, **160k€ Partners** **BRGM, French Ministry of ECOLOGY, PREDICT Services, Université Paris Dauphine, IMT – Local P.I.**
- **2020-2023 – CRIZ'INNOV – FR/Occitanie**, Designing the Crisis Cell of the Future based on Artificial Intelligence, Data Sciences, and Immersive Technologies, **300k€ Partners** **CEA Tech, CEREMA, IRT Université de Toulouse, IMT – Local P.I.**
- **2019-2022 – RESIIST – FR/ANR**, Using Simulation to improve Resilience of Critical Infrastructures, **200k€ Partners** **AXILIENCE, LATTES Ecole des Ponts ParisTech, SNCF, IMT – Contributor**
- **2019-2021 – SANCTUM – FR/CSFRS**, Using Modeling and Artificial Intelligence for Anticipation purposes in Crisis Management, **80k€ Partners** **CEREMA, French Ministry of ECOLOGY, LATTES Ecole des Ponts ParisTech, IMT – Local P.I.**
- **2017-2021 – MACIV – FR/ANR**, Management of Citizens and Volunteers in Crisis Situation using social media and Artificial Intelligence, **210k€ Partners** **French Ministry of INTERIOR, LATTES Ecole des Ponts ParisTech, TELECOM ParisTech, IMT – Local P.I.**

EARLIER FUNDINGS (2005-2020) – 3.1M€

- **2016-2020 – Ph.D Grant – ITEROP**, A business process modeling approach in line with modern information systems, **110k€ Ph.D Student** **Manon Froger – P.I.**
- **2016-2019 – Ph.D Grant – Maple Technology**, A Tool-based approach for a Fast Business Process Modelling and Diagnosis, **110k€ Ph.D Student** **Sina Namakiaraghi – P.I.**
- **2015-2018 – MAIEUTIC – FR/CARNOT**, Modeling and Metamodeling of statical and dynamical dimensions of Critical Infrastructures networks, **110k€ Partners** **ENEDIS, IMT – Contributor.**
- **2015-2018 – C2NET – EU/H2020**, Design of a Cloud-based Manufacturing Platform applied to Supply Chain, **400k€ Partners** **ENEDIS, IMT – Local P.I.**
- **2014-2017 – GeNePi – FR/ANR**, Design of a Smart Digital Crisis Management Platform, **350k€ Partners** **French West Regional Authority, CEREMA, IRT&IDETCOM Université de Toulouse, ITEROP, SDSIE, IMT – P.I.**
- **2014-2020 – DRIVER / DRIVER+ – EU/FP7**, Definition of a Testing and Experimentation Platform for the evaluation of Digital Platform for Crisis Management, **680k€ Main Partners** **THALES, ATOS, TNO, IMT – Local P.I.**
- **2013-2016 – Ph.D Grant – THALES Communications**, Preference-based planning using the Multi-Attribute Utility Theory along with a Choquet integral: application to organizations' interoperability in crisis management, **100k€ Ph.D Student** **Loic Bidoux – P.I.**

March 2026

- **2012-2015 – OpenPAAS – FR/FUI**, Design of an Open Platform for Service Integration, **200k€** Partners **Linagora, Telecom Sud Paris, Université de Nancy, IMT – Local P.I.**
- **2011-2013 – SIM-PeTra – FR/PREDIT**, Design of a Mediation Information System dedicated to manage Transport Crisis, **150k€** Partners **CEREMA, CRICR, IMT – P.I.**
- **2010-2014 – Ph.D Grant – Linagora**, Integration of non-functional requirements to ensure choreography governance of collaborative workflows, **80k€** Ph.D Student **Sarah Zribi – P.I.**
- **2010-2013 – SocEDA – FR/ANR**, Design of a Social-Event Driven Platform for Service Integration, **160k€** Partners **EBM-WebSourcing, INRIA, ORANGE, IMT – Local P.I.**
- **2010-2013 – PLAY – EU/FP7**, Definition of a digital environment for the analysis of events through an Event-Driven Architecture dedicated to generate new complex events, **300k€** Partners **CIM, EBM-WebSourcing, FZI, INRIA, NTUA, ORANGE, IMT – Local P.I.**
- **2009-2012 – Ph.D Grant – EBM Websourcing**, Transforming collaborative business models into MIS deployment elements through semantic reconciliation, **75k€** Ph.D Student **Nicolas Boissel-Dallier – P.I.**
- **2009-2012 – ISTA3 – FR/FUI**, Study and Design of a framework to support interoperability between Tier 3+ suppliers in Airplane Supply Chain, **120k€** Partners **Centrale Lille, CNAM, EBM-WebSourcing, JTT, Sysmeca, Université de Bordeaux, Université de Nantes, IMT – Local P.I.**
- **2007-2010 – ISyCri – FR/ANR**, Design of a Digital Platform for Crisis Management, **110k€** Partners **EBM-WebSourcing, IRT Université de Toulouse, THALES Communications, IMT – P.I.**
- **2006-2009 – Ph.D Grant – EBM Websourcing**, Knowledge-based system for collaborative process specification, **75k€** Ph.D Student **Vatcharaphun Rajsiri – P.I.**
- **2005-2008 – JOnES – FR/ANR**, Design of an Enterprise Service Bus to implement Service-Oriented Architectures of Information Systems, **40k€** Partners **EBM-WebSourcing, France Telecom, INRIA, ODonata, OPENWIDE, SCALAGENT, IMT – Local P.I.**

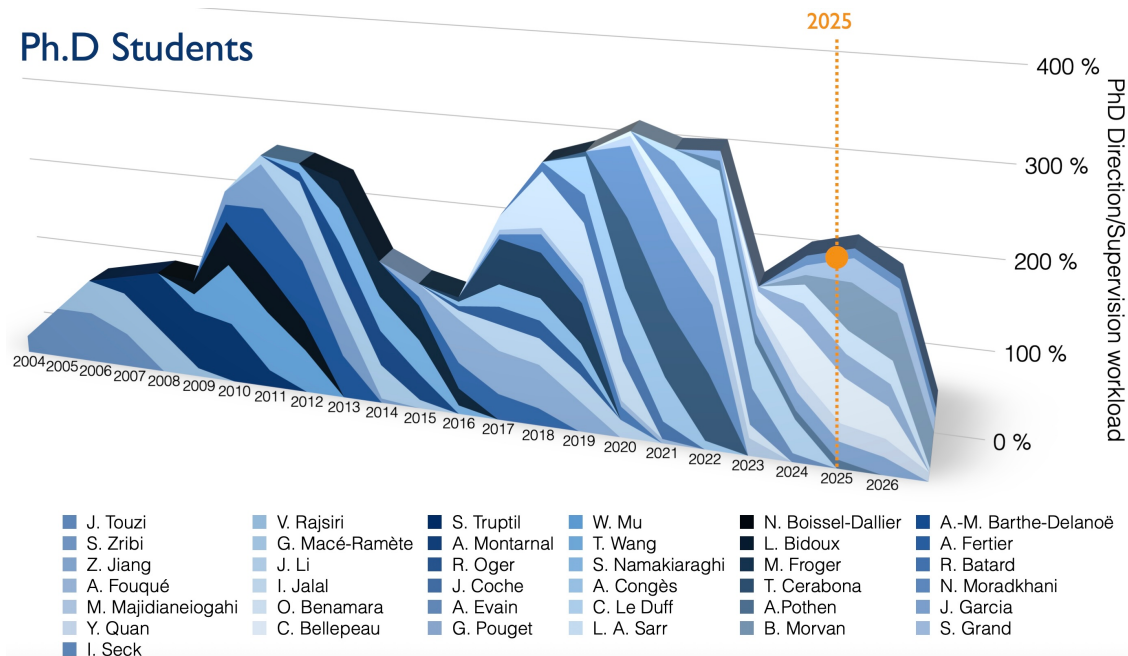
OTHER FUNDINGS AS GEORGIA TECH ADJUNCT PROFESSOR (since 2020)

- **2021-present – MiTek – Industrial project**, Usage of Immersive Technologies and A.I. Tools for risk identification on project portfolio and manufacturing process visualization, **M\$4.5 – WP Leader.**
- **2020-2022 – CISCO / South Shore – Industrial Project**, Smart multi-agent system for agility and sentience of supply chain, **k\$200 – Contributor.**

DIRECTING & MENTORING

DOCTORATES (as Ph.D. Director, Co-Director, Supervisor) – 37

Ph.D Students



Current Ph.D. Students (as Ph.D. Director, Co-Director, Supervisor) – 9

1. **2024-...** – **Papa Idrissa Mawa Seck**, *Design, didactic engineering, and experimentation of an Animated Conversational Agent (ACA) for Digital Learning Environment: Towards a reflective and adaptive approach for enhancing learning processes* **Université Champollion** – Co-director (Director **Michel Galaup** from **Université Champollion**)
2. **2024-...** – **Sebastien Grand**, *Development of a bio-inspired executive AI enabling reasoning adapted to changing contexts and tasks. Application to intrusion characterization using multimodal data* **IMT** – Director
3. **2024-...** – **Benoit Morvan**, *Modeling the risks and opportunities of an industrial complex systems as force fields impacting system performance within the POD conceptual framework (Physics of decision)* **IMT** – Director (Co-Director **Benoit Montreuil** from **Georgia Tech**)
4. **2024-...** – **Lala Aïcha Sarr**, *Study of the integration of artificial intelligence mechanisms to support the modeling and orchestration of business processes in a social network context* **IMT** – Director (Co-Supervisor **Dominik Bork** from **T.U.Wien**)
5. **2023-...** – **Guillaume Pouget**, *Study and definition of an approach for generating massive radar signature data from deformable or indeformable solids by combining SER profiles and configurable trajectories, with a view to exploiting this data for neural network learning* **IMT** – Director
6. **2023-...** – **Camelia Bellepeau**, *Immersive data visualization environment for industrial decision making* **IMT** – Director (Co-Director **Benoit Montreuil** from **Georgia Tech**)

7. **2023-...** – **Yinzhu Quan**, *Leveraging large language models for risk assessment in supply chain networks*. **Georgia Tech – Supervisor** (Director **Benoit Montreuil** from **Georgia Tech**)
8. **2021-...** – **Jorge Garcia-Zamalloa**, *Leveraging Immersive Technologies for Manufacturing Decision-Making* **Georgia Tech – Supervisor** (Director **Benoit Montreuil** from **Georgia Tech**)
9. **2020-...** – **Ashwin S. Pothan**, *Resilient Inventory Management for Supply Chain Networks* **Georgia Tech – Supervisor** (Director **Benoit Montreuil** from **Georgia Tech**)

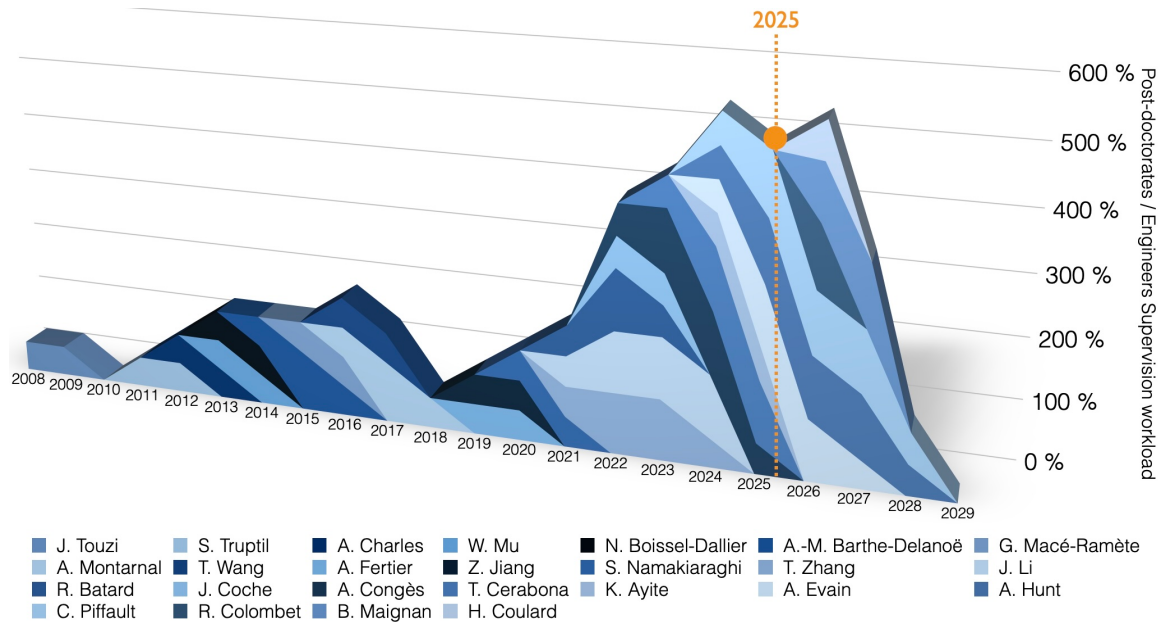
Former Ph.D. Students (as Ph.D. Director, Co-Director, Supervisor) – 28

10. **2021-2025** – **Clara Le Duff**, *Definition of an optimization approach for improving the supply-chain performance by analyzing risks and opportunities* **IMT – Director** (Co-Director **Benoit Montreuil** from **Georgia Tech**)
11. **2021-2024** – **Alexis Evain**, *Study and definition of a tool-based approach for modeling crisis and risk situations dedicated to execution in immersive environments* **IMT – Director** (Co-Director **David Panzoli** from **Université Champollion**, Co-Supervisor **Shane Halse** and **Jess Kropczynski** from **University of Cincinnati**)
12. **2020-2023** – **Oussema Ben Amara**, *Hardware architecture for the evaluation of robustness indicators through massive data collection and interpretation* **IMT – Director** (Co-Director **Ygal Fijalkow** from **Université Champollion**)
13. **2020-2023** – **Mehran Majidian**, *Definition of an approach to modeling and orchestrating business processes, based on incompleteness, flexibility and adaptability* **IMT – Director** (Co-Supervisor **Dominik Bork** from **T.U.Wien**)
14. **2019-2022** – **Nafe Moradkhani**, *Study of a decision support approach in the management of socio-technical systems, based on the physical principles of point and solid mechanics* **IMT – Director** (Co-Director **Benoit Montreuil** from **Georgia Tech**)
15. **2019-2023** – **Thibaut Cerabona**, *Study of a decision support approach in collaborative network management based on the use of virtual reality: application to the supply chain* **IMT – Director** (Co-Director **Benoit Montreuil** from **Georgia Tech**)
16. **2019-2022** – **Aurélié Congès**, *Study and implementation of a Virtual Reality environment dedicated to Crisis Management and Anticipation* **IMT – Director** (Co-Supervisor **Jake Graham** from **Penn State University**)
17. **2018-2021** – **Julien Coche**, *Interpretation of social media data to instantiate concepts and build a situation model in crisis management* **IMT – Director** (Co-Director **Andrea Tapia** from **Penn State University**)
18. **2017-2020** – **Ibrahim Jalal Koura**, *Characterization of organizations and emerging networks to detect and anticipate collaboration opportunities* **IMT – Director** (Co-Director **Juanqiong Gou** from **Beijing JiaoTong University**)
19. **2017-2021** – **Anthony Fouqué**, *A business process modeling approach in line with modern information systems* **IMT – Supervisor** (Director **Matthieu Lauras** from **IMT**, Co-Director **Hamideh Afsarmanesh** from **University of Amsterdam**)

20. **2017-2021** – **Robin Batard**, *Including volunteers, victims, witnesses and citizens in crisis management through social media* **IMT – Director** (Co-Director **Christophe Prieur** from **Telecom ParisTech**, Co-Supervisor **Andrea Tapia** from **Penn State University**)
21. **2016-2019** – **Sina Namakiaraghi**, *A Tool-based approach for a Fast Business Process Modelling and Diagnosis* **IMT – Director**
22. **2016-2020** – **Manon Froger**, *A business process modeling approach in line with modern information systems* **IMT – Director**
23. **2016-2019** – **Raphaël Oger**, *A decision support system for long-term supply chain capacity planning: a model-driven engineering approach* **IMT – Supervisor** (Director **Matthieu Lauras** from **IMT**, Co-Director **Benoît Montreuil** from **Georgia Tech**)
24. **2016-2020** – **Jiayao Li**, *Characterization of enterprise ecosystem for the emergence of collaborative networks* **IMT – Co-Director** (Director **Juanqiong Gou** from **Beijing JiaoTong University**)
25. **2015-2019** – **Zheng Jiang**, *An agile information system dedicated to the management of logistics networks by integrating the IoT contributions* **IMT – Co-Director** (Director **Jacques Lamothe** from **IMT**)
26. **2015-2018** – **Audrey Fertier**, *An agile information system dedicated to the control of horizontal and vertical dimensions of crisis management* **IMT – Director**
27. **2013-2016** – **Loïc Bidoux**, *Preference-based planning using the Multi-Attribute Utility Theory along with a Choquet integral: application to organizations' interoperability in crisis management* **IMT – Director**
28. **2012-2016** – **Tiexin Wang**, *A study to define an automatic model transformation approach based on semantic and syntactic comparisons* **IMT – Director**
29. **2012-2015** – **Aurélie Montarnal**, *Deduction of inter-organizational collaborative business processes within an enterprise social network* **IMT – Co-Director** (Director **Jacques Lamothe** from **IMT**)
30. **2011-2015** – **Guillaume Macé-Ramète**, *Deployment a mediation information system for decision support in situations of road crisis* **IMT – Co-Director** (Director **Jacques Lamothe** from **IMT**)
31. **2010-2014** – **Sarah Zribi**, *Integration of non-functional requirements to ensure choreography governance of collaborative workflows* **IMT – Supervisor** (Director **Hervé Pingaud** from **IMT**)
32. **2010-2013** – **Anne-Marie Barthe**, *Event-Driven approach in charge of the agility of collaborative workflows choreography* **IMT – Supervisor** (Director **Hervé Pingaud** from **IMT**)
33. **2009-2012** – **Nicolas Boissel-Dallier**, *Transforming collaborative business models into MIS deployment elements through semantic reconciliation* **IMT – Supervisor** (Director **Hervé Pingaud** from **IMT**)
34. **2009-2012** – **Wenxin Mu**, *Collaborative situation characterization for business behavior design through ontology-based model transformation* **IMT – Supervisor** (Director **Hervé Pingaud** from **IMT**)

35. **2007-2011** – **Sebastien Truptil**, *Study of the approach of interoperability by mediation in dynamic collaborations* **IMT – Supervisor** (Director **Hervé Pingaud** from **IMT**)
36. **2006-2009** – **Vatcharaphun Rajsiri**, *Knowledge-based system for collaborative process specification* **IMT – Supervisor** (Director **Hervé Pingaud** from **IMT**)
37. **2004-2007** – **Jihed Touzi**, *A Design Approach for Collaborative Information System for enterprise interoperability* **IMT – Supervisor** (Director **Hervé Pingaud** from **IMT**)

POST-DOCTORATES OR RESEARCH ENGINEERING – 33



Current Post-doctorates or Research Engineering – 7

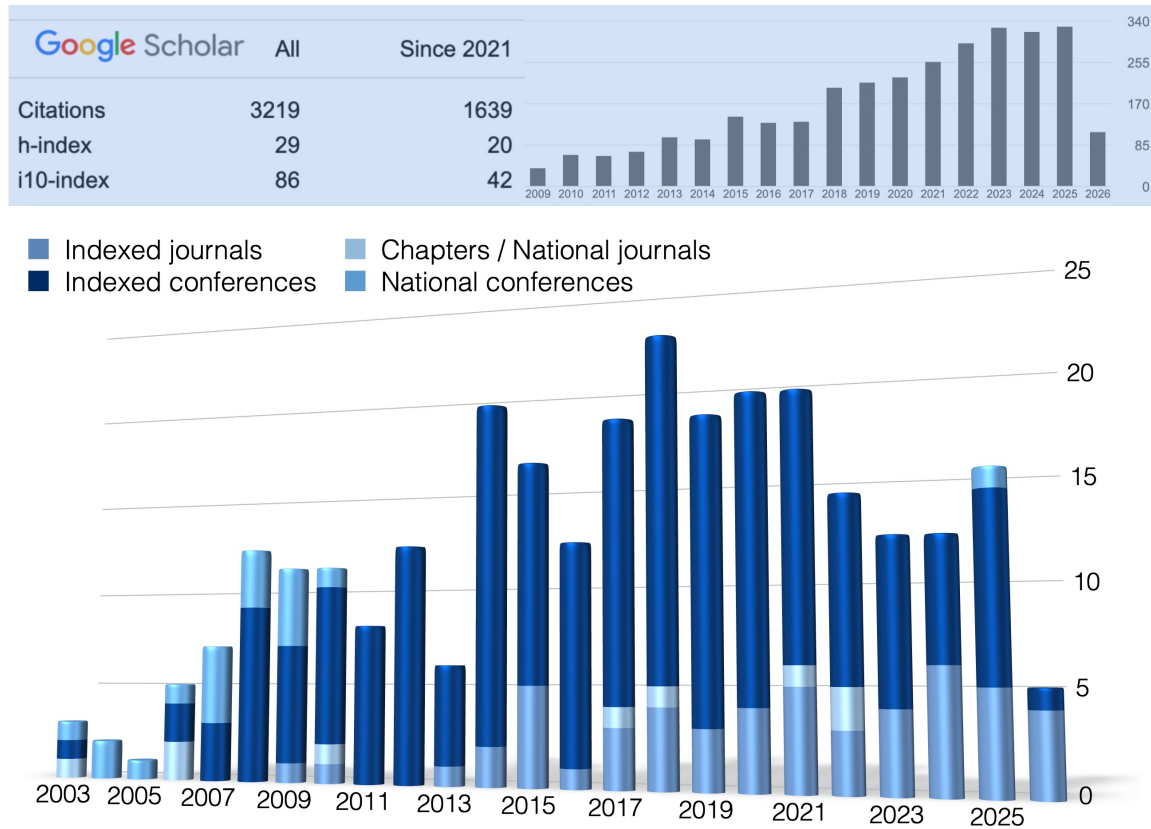
1. **2026-...** – **Hugues Coulard** (Research Engineer, HypeR-IO project funding) on the development of a lightweight version of R-IO Suite.
2. **2026-...** – **Benjamin Maignan** (Research Engineer, MEDEI funding) on the development of web configuration and simulation environment for production and supply chain use-case.
3. **2026-...** – **Romain Colombet** (Research Engineer, 5GMETAVERS project funding) on the implementation of the performance visualization in VR of a Supply Chain use-case.
4. **2025-...** – **Alexis Evain** (post-doctorate, 5GMETAVERS project funding) on the implementation of a VR environment for performance management.
5. **2024-...** – **Charles Piffault** (research engineer, RadaR-IO funding) on the use of machine learning for micro-doppler interpretation.
6. **2024-...** – **Anthony Hunt** (research engineer, 5GMETAVERS project funding) on the integration of LLM into VR environment to support the design of immersive digital twin.

Former Post-doctorates or Research Engineering – 26

7. **2023-2026** – **Thibaut Cerabona** (post-doctorate, HITeC project funding) on the use of Physics Of Decision for Supply Chain Engineering and Management.
8. **2024-2025** – **Paul Komlan Ayite** (research engineer, Deep Turtle funding) on the integration of LLM-based agent in a social media platform for business process design and execution.
9. **2024-2025** – **Alexis Evain** (post-doctorate, DECAPOD/AIR-POD project funding) on the modeling of KPIs and Risks&Opportunities in Virtual Reality for physics of decision.
10. **2023-2025** – **Aurélie Congès** (post-doctorate, PICADORS funding) on the reactive management of critical situations applied to firefighter everyday activities.
11. **2023-2025** – **Jiayao Li** (post-doctorate, PICADORS funding) on the anticipative management of critical situations applied to firefighter everyday activities.
12. **2023-2024** – **Tianyuan Zhang** (post-doctorate, DECAPOD project funding) on the usage of machine learning to enhance physics of decision applied to ecological crisis.
13. **2022-2023** – **Tianyuan Zhang** (post-doctorate, CARNOT project funding) on the joint usage of simulation and machine learning for humanitarian supply chain decision making.
14. **2022-2023** – **Aurélie Congès** (post-doctorate, CRIZ'INNOV project funding) on the use of immersive technologies for risk and crisis management.
15. **2022-2023** – **Robin Batard** (post-doctorate, RE-S-EAU common research lab funding) on the modeling and simulation of risk propagation in water distribution networks.
16. **2022-2023** – **Julien Coche** (post-doctorate, ReSoCio / CRIZ'INNOV projects funding) on the interpretation of social network as relevant information for decision makers in crisis context.
17. **2021-2023** – **Jiayao Li** (post-doctorate, SCAN Chair funding) on the use of the Physics of Decision framework for target definition in complex industrial environments.
18. **2021-2022** – **Robin Batard** (post-doctorate, EGCERSIS common research lab funding) on the dependences between crisis management scenarios in a complex crisis situation.
19. **2021-2022** – **Tianyuan Zhang** (post-doctorate, CRIZ'INNOV project funding) on the automated interpretation of images in crisis contexts to instantiate metamodel concepts.
20. **2020-2021** – **Sina Namakiargahi** (post-doctorate, DEEP TURTLE common research lab funding) on the agile and flexible monitoring of business process orchestration.
21. **2019-2020** – **Zheng Jiang** (post-doctorate, DRIVER+ project funding) on the modeling of crisis management tools to analyze the technological landscape and support innovation.
22. **2019-2020** – **Audrey Fertier** (post-doctorate, SANCTUM project funding) on the usage of Machine Learning for data interpretation and the anticipation using R-IOSuite.
23. **2017-2018** – **Aurélie Montarnal** (post-doctorate, GÉNéPi project funding) on the integration of data from social networks (Twitter) in the modeling approach and tools of R-IOSuite.
24. **2016-2017** – **Aurélie Montarnal** (post-doctorate, DRIVER project funding) on the development of planning tools within the crisis management platform of R-IOSuite.

25. **2016-2017 – Tiexin Wang** (post-doctorate, C2NET project funding) on the development of a data processing platform for supply chain monitoring.
26. **2015-2016 – Guillaume Macé-Ramète** (post-doctorate, GéNéPi project funding) on the implementation of modeling mechanisms for flooding type crisis situations.
27. **2015-2016 – Anne-Marie Barthe-Delanoë** (post-doctorate, DRIVER project funding) on the inclusion of agility within R-IOSuite tools, dedicated to crisis management.
28. **2014-2015 – Anne-Marie Barthe-Delanoë** (post-doctorate, OpenPaaS project funding) on the integration of agility feature within a cloud environment for enterprise social network.
29. **2013-2014 – Nicolas Boissel-Dallier** (post-doctorate, PLAY project funding) on the integration of the R-IOSuite project software components within a web environment.
30. **2013-2014 – Wenxin Mu** (post-doctorate, OpenPaaS and SocEDA projects fundings) on the modeling of collaborative situations from a dedicated metamodel.
31. **2012-2013 – Aurélie Charles** (post-doctorate, PLAY project funding) on "business" aspects of crisis management and on the definition of use-cases (nuclear accident).
32. **2011-2012 – Sébastien Truptil** (post-doctorate, PLAY and SocEDA projects fundings) on the "technical" aspects of crisis management and on Event-Driven Architectures.
33. **2008-2009 – Jihed Touzi** (post-doctorate, ISyCRi project funding) on the deployment of mediation IS on ESB platform.

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4. Namaki-Araghi, S., **Benaben, F.**, Fontanili, F., Lamine, E., Possik, J., Solis, A.O., Karray, H. M., (2026) – MMP: A Hybrid AI Approach for Explainable Diagnosis of Concept Drifts in Patient Pathways – **Intelligent Systems With Applications (ISWA)**, Elsevier, *accepted, to be published*, 2026.
5. Quan, Y., Liu, Z., **Benaben, F.**, Montreuil, B. (2026) – Leveraging Large Language Models to Enhance Multi-Agent Risk Assessment in Supply Chain Networks – **International Journal of Production Research (IJPR)**, Taylor & Francis. *accepted, to be published*, 2026. <https://doi.org/10.1080/00207543.2026.2619562>

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9. Le Duff, C., Lesbguerries, J., Falco, R., Adrot, A., Montreuil, B., **Benaben, F.** (2025) – Toward a Generic Information System for Projects Portfolio management using Physics of Decision (POD) – **Expert Systems with Applications (ESWA)**, Elsevier, *accepted, to be published*, 2025. <https://doi.org/10.1016/j.eswa.2025.126607>
10. Li, J., **Benaben, F.**, Gou, J., Mu, W. (2025) – Modeling Cascading Effects in Collaborative Systems: A Formal Risk Interdependency Framework – **Journal of Modelling in Management (JMM)**, Emerald Publishing, Vol. 20, issue 5, pp. 1711-1737, 2025. <https://doi.org/10.1108/jm2-09-2024-0313>
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30. **Benaben, F.**, Fertier, A., Montarnal, A., Mu, W., Jiang, Z., Truptil, S., Barthe-Delanoë, A.-M., Lauras, M., Mace-Ramete, G., Wang, T., Bidoux, L., Lamothe, J. (2020) – An AI framework and a metamodel for collaborative situations: Application to crisis management contexts – **Journal of Contingencies and Crisis Management (JCCM)**, Wiley, Vol. 28, Issue 3, pp. 291-306, 2020. <https://doi.org/10.1111/1468-5973.12310>
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13. Couget, P., [Benaben, F.](#), Luras, M., Hanachi, C., Chapurlat, V. (2007) – Information Systems interoperability as a way to Partners Integration on a Crisis Context – Proceedings of **ICSSEA'07**. Paris, France.
14. [Benaben, F.](#), Touzi, J., Rajsiri, V., Lorré, J.-P., Pingaud, H. (2007) – L'interopérabilité des SI comme moyen vers l'intégration de l'écosystème industriel – Proceedings of **CIGI'07**. Trois-Rivières, Québec, Canada.
15. [Benaben, F.](#), Touzi, J., Rajsiri, V., and Pingaud, H. (2006) – Conception de système d'information collaboratif – Proceedings of **AIM'06**. Luxembourg, Grand Duché du Luxembourg.
16. Touzi, J., [Benaben, F.](#), and Pingaud, H. (2005) – Une approche de la conception d'un SI d'entreprise par la représentation des processus – Proceedings of **ECI Workshop'05**. Paris, France.
17. [Benaben, F.](#), Gourc, D., Villareal, C., Ravalison, B., Pingaud, H. (2004) – Une méthode d'identification des risques : application à un projet coopératif – Proceedings of **AFIS-AFITEP-AFAV Congress'04**. Paris, France.
18. [Benaben, F.](#), Gourc, D., Villareal, C., Ravalison, B., Pingaud, H. (2004) – RIR : Recensement et Identification des Risques : Identification des risques en conduite de projet – Proceedings of **ICSSEA'04**, vol. 1, Session n°5. Paris, France.
19. Addouche, N., Antoine, C., [Benaben, F.](#) (2003) – Modélisation Orientée Objet et Formalisation d'un Système Industriel pour l'Analyse de la Sûreté de Fonctionnement – Proceedings of **IEEE Canada CCGEI'03**. Montreal, Canada
20. [Benaben, F.](#), Antoine, C., Pignon, J.-P., Magnier, J., Larnac, M. (2000) – Une méthode d'aide à la conception fonctionnelle de systèmes techniques multi-technologies – Proceedings of **ICSSEA'00**. Paris, France.
21. [Benaben, F.](#), Antoine, C., Pignon, J.-P., Magnier, J., Larnac, M. (2000) – Formalisation de modèles pour la vérification de propriétés de systèmes hétérogènes – Proceeding of **AFIS-AFITEP'00**. Toulouse, France.
22. [Benaben, F.](#), Larnac, M., Pignon, J.-P., Magnier, J. (2000) – Intervention des exigences dans un processus d'aide à la conception de système multi-technologique – Nîmes **NTIC'00**. Nîmes, France.

MANUSCRIPTS IN PREPARATION – 13

1. Bellepeau, C., Romero, V., Cerabona, T., Martin, G., Montreuil, B., [Benaben, F.](#) (under 2nd review) – Trajectory-Based Performance Visualization and Decision Support Using KPI Hierarchies: A Descriptive Contribution of the Physics of Decisions Model – **Enterprise Information Systems (EIS)**, Taylor&Francis.
2. Pouget, G., Montarnal, A., Grand, S., Piffault, C., Mériaux, B., [Benaben, F.](#), (under review) – Application of a Hybrid Method for Intrusion Characterisation and Evaluation of its Generalisation Capability – **IEEE Transactions on Pattern Analysis and Machine Intelligence**, IEEE.
3. Congès, A., Fertier, A., Barthe-Delanoë, A.-M., Salatgé, N., Rebière, S., Delattre, R., [Benaben, F.](#) (under review) – A Digital-Twin Platform to Support Situational Awareness and Decision-Making in a Crisis Response – **Engineering Applications of Artificial Intelligence (EAAI)**, Elsevier.

4. Grand, S., Piffault, C., Pouget, G., Mériaux, B., [Benaben, F.](#), Montarnal, A. **(under review)** – Human Intrusion Detection in Adverse Outdoor Conditions using Deep Learning on Radar Micro-Doppler Signatures – ***Engineering Applications of Artificial Intelligence (EAAI)***, Elsevier.
5. Congès, A., Graham, J., Chabiron, O., Lauras, M., [Benaben, F.](#) **(under review)** – A Maturity Framework for the Evaluation of the Integration of Virtual Environments – ***Interactive Learning Environments (ILE)***, Taylor & Francis.
6. Morvan, B., Moradkhani, N., Romero, V., Martin, G., Montreuil, B., [Benaben, F.](#) **(under review)** – Physics of Decision: A data-driven decision support framework for socio-technical systems, using parametric surrogates to enable real-time “what-if” analysis – ***International Journal of Information Management (IJIM)***, Elsevier.
7. Grand, D., Piffault, C., Pouget, G., Mériaux, B., [Benaben, F.](#), Montarnal, A. **(in preparation)** – Recursive Neural Synchronization for Audio-Visual Binding – ***IEEE Transactions on Pattern Analysis and Machine Intelligence***, IEEE.
8. [Benaben, F.](#), Moradkhani, N., Cerabona, N., Bellepeau, C., Morvan, B., Le Duff, C., Li, J., Romero, V., Martin, G., Lauras, M., Montreuil, B., **(in preparation)** - Physics of Decision: Business Sentience achieved through physics-inspired performance management - ***International Journal of Information Management (IJIM)***, Elsevier.
9. Quan, Y., Liu, Z., [Benaben, F.](#), Montreuil, B. **(in preparation)** – AutoMARS: Automatic and Scalable Multi-Agent Large Language Model Framework for Supply Chain Risk Assessment – ***International Journal of Production Economics (IJPE)***, Elsevier.
10. Barthe-Delanoë, A.-M., Majidian-Eidgahi, M., Bork, D., Mace-Ramete, G., [Benaben, F.](#) **(in preparation)** – An Agility Framework for Business Process Management – ***Journal of Enterprise Information Management (JEIM)***, Emerald.
11. Moradkhani, N., [Benaben, F.](#) **(in preparation)**. Physics of Decision: A vision of the prescriptive Business Sentience – ***International Journal of Production Economics (IJPE)***, Elsevier.
12. Li, J., Zhang, T., [Benaben, F.](#) **(in preparation)**. Supporting decision makers in objective definition: a Physics Of Decision-based constructive approach and a case study on consumer marketing – ***Computers In Industry (CII)***, Elsevier.
13. [Benaben, F.](#) **(manuscript in preparation)**. Physics of Decision: A handbook.

MAIN INVITED TALKS & PRESENTATIONS

2026

- **ISCRAM'26 Keynote Speech** *Combining Artificial Intelligence and Immersive Technologies: the future of Decision Making?* **Amsterdam, Netherlands – 2026 June 3**
- **InterOp VLab JIAE'26 Keynote Speech** *Physics Of Decision (POD): merging artificial intelligences and immersive technologies in a physics-based management theory.* **Tarbes, France – 2026 May 29**
- **Kedge Business School, Invited Seminar** *A vision of the use of immersive technologies in research and teaching activities related to Supply Chain: escaping reality rather than replicating it.* **Bordeaux, France – 2026 January 28**
- **Georgia Tech Allen-Davidson-Coleman XR Makerspace Grand Opening Speech** *A framework for Immersive Technologies in Engineering: An illustrated Perspective* **Atlanta, USA – 2026 January 23**

2025

- **University of Sao Paulo, Industrial Breakfast** *Hybrid Immersive Teaching Campus: Immersive Technologies for Supply Chain.* **Sao Paulo, Brazil – 2025 August 20**
- **University of Sao Paulo, College of Engineering Invited Seminar** *Physics of Decision: Physics-inspired performance management.* **Sao Paulo, Brazil – 2025 August 19**
- **IMT Days** *On the use of AI and VR for post-graduate teaching.* **Paris, France – 2025 May 20**
- **Georgia Tech SCL Lunch and Learn Seminar** *Building Resilience Strategies for Effective Supply Chain Risk Management.* **Online – 2025 March 06**
- **Georgia Tech SCL Lunch and Learn Seminar** *Generative Artificial Intelligence for Supply Chain.* **Online – 2025 January 02**

2024

- **Pennsylvania State University, College of IST Invited Seminar** *Artificial intelligence and immersive technologies.* **State College, USA – 2024 December 05**
- **Pennsylvania State University, College of IST Pedagogical Seminar** *Using immersive technologies for undergraduate and graduate teaching.* **State College, USA – 2024 December 03**
- **PRO-VE'24 Keynote Speech** *Physics of Decision - A physics-inspired theoretical approach for complex systems performance management.* **Albi, France – 2024 October 30**
- **ENSOSP (National Firefighter Officers' College) Invited Speech** *Artificial Intelligence and Crisis Management,* **Aix-en-Provence, France – 2024 September 19**

2023

- **ISCRAM Invited Online Seminar** *Physics Of Decision: Application to Pandemics*. **Online** – **2023 May 28**
- **Cyber CNI Chair Invited Online Seminar** *Immersive crisis management, risk management and decision support*. **Online** – **2023 February 22**
- **Health Day'23 Invited Speech** *Physics Of Decision: Application to Pandemics*. **Castres, France** – **2023 February 17**
- **HICSS Ignite Talk** *Physics Of Decision*. **Maui, USA** – **2023 January 04**

2022

- **IMT Days** *Current status of research in AI for Risk and Crisis Management*. **Paris, France** – **2022 March 31**

2021

- **IFIP IT in DRR Workshop Seminar** *Takeaways from the recent crisis and avenues for the future of crisis management*. **Online** – **2021 April 09**
- **Georgia Tech College SCP Invited Seminar** *Security as a whole: An overview of a Security Management Framework in today's Society*. **Online** – **2021 April 09**

2020

- **European Night of Research Public Keynote Speech** *Virtual Reality, Augmented Reality, Extended Reality in our Reality*. **Online** – **2020 November 27**
- **PRO-VE'20 Invited Speech** *The role of collaborative networks in Pandemic situations*. **Valencia, Spain** – **2020 November 24**
- **French Ministry of Interior Invited Speech** *On the use of Artificial Intelligence and Virtual Reality for Future Crisis Cell*. **Paris, France** – **2020 October 07**
- **SCALIAN Company "Masterclass" Invited Speech** *Using Artificial Intelligence and Virtual Reality for Crisis Management & Decision Support*. **Online** – **2020 June 24**

2019

- **French Ministry of Ecology Invited Speech** *Physics Of Decision applied to Climate change*. **Paris, France** – **2019 November 22**
- **Twente University Invited Seminar** *An AI Framework Used in Crisis Management and Decision Making*. **Twente, The Netherlands** – **2019 July 03**
- **Georgia Tech SCL Invited Seminar** *An AI Framework Used in Crisis Management and Decision Making*. **Atlanta, USA** – **2019 April 23**
- **Virginia Tech Invited Speech** *Connecting Industrial Engineering and Artificial Intelligence to support (collaborations of) organizations*. **Blacksburg, USA** – **2019 February 14**

2018

- **Virginia Tech Invited Seminar** *Principles of Disaster Resilience and Risk Management - Disaster Organization*. **Blacksburg, USA – 2018 November 13**
- **InterOp-VLab Invited Speech** *Model-based Artificial Intelligence for Interoperability of Organizations in highly instable contexts*. **Tarbes, France – 2018 November 05**
- **Pennsylvania State University, College of IST Invited Speech** *Artificial Intelligence for Decision Support in Crisis Management*. **State College, USA – 2018 October 10**
- **MOSIM'18 Keynote Speech** *A big data framework for data interpretation, information exploitation and knowledge management: Application to crisis management*. **Toulouse, France – 2018 June 27**
- **French Ministry of Interior Invited Speech** *Why Artificial Intelligence will help Decision-Makers focus on activities that require their Humanity*. **Paris, France – 2018 June 14**
- **Universidad Técnica Federico Santa María Invited Speech** *Information Systems and Crisis Management: How to reconcile the two worlds?* **Valparaiso, Chile – 2018 April 03**

2017

- **European Night of Research Public Keynote Speech** *Crisis Management*. **Albi, France – 2017 September 29**
- **MODELSWARD'17 Keynote Speech** *Model-Driven Engineering for Crisis Management*. **Porto, Portugal – 2017 February 20**

2016

- **Beijing JiaoTong University, School of Economics and Management Invited Speech** *Artificial Intelligence for the Coordination of Actors in Crisis Management*. **Beijing, China – 2016 December 01**
- **Pennsylvania State University, College of IST Invited Speech** *Interoperability of Organizations: Application to Crisis Management*. **State College, USA – 2016 November 03**
- **French Ministry of Ecology Invited Speech** *Decision Levels of Crisis Management*. **Paris, France – 2016 October 24**
- **European Night of Research Public Keynote Speech** *Vertical Intelligence and Horizontal Intelligence: Shark and Man to explain Artificial Intelligence*. **Albi, France – 2016 September 30**
- **Beijing JiaoTong University, School of Economics and Management Invited Speech** *Interoperability of Organizations: Application to supply chain*. **Beijing, China – 2016 April 26**

2015

- **Frontier International Conference Invited Speech** *Crisis Management through a Service-Oriented Mediation System*. **Sendai, Japan – 2015 December 02**

March 2026

- **BPMuy'15 Keynote Speech** *From collaborative willing to collaboration*. **Montevideo, Uruguay** – **2015 November 03**
- **European Night of Research Public Keynote Speech** *Big Data*. **Albi, France** – **2015 September 25**

2014

- **Beijing JiaoTong University, University Anniversary Invited Speech** *Artificial Intelligence for the Coordination of Actors in Crisis Management*. **Beijing, China** – **2014 October 25**

2013

- **SYLOB Company Christmas Event Invited Speech** *Design of Mediation Information Systems*. **Albi, France** – **2013 December 13**
- **BOSH Company Invited Speech** *Mediation Information System for better Business Process Management*. **Rodez, France** – **2013 May 23**
- **IMT Golden Nuggets Conference** *New Technologies... Towards a (more) Collaborative World* **Albi, France** – **2013 April 11**

2012

- **EDOC 3M4SE'12 Keynote Speech** *A model-driven approach for Mediation Information System Engineering: Helping organizations to seize Collaboration Opportunities*. **Beijing, China** – **2012 September 10**
- **CNRS GDR I3 (Computer Science and Artificial Intelligence) Invited Keynote Speech** *A model-driven engineering approach of Artificial Intelligence to support organizational collaboration*. **Giens, France** – **2012 May 10**
- **CNRS GDR MACS (Industrial Engineering) Invited Keynote Speech** *An AI-based mediation Information System supporting exchanges between actors in collaborative situations...SIM, IDM, BPM, SOA, ESB, EDA... what else?... Albi, France* – **2012 March 29**

2011

- **DEXA OntoFlow'11 Keynote Speech** *Ontology-based workflow deduction for information system design in collaborative context*. **Toulouse, France** – **2011 September 01**

SELECTED HONORS & AWARDS

ACADEMIC DISTINCTIONS

- **2024** – Appointed “*Exceptional Class*” Professor (highest grade in French Professorship)
- **2020** – Appointed “*First Class*” Professor
- **2017** – Appointed “*Second Class*” Professor

PAPER AWARDS

- **2025** – **Best Paper Award** for Moradkhani, N., Klibi, W., Benaben, F., “Context Matters: Optimizing Crisis Response Through Contextual Stochastic Decision-Making”, *Proceedings of ISCRAM’25*, Halifax, Canada
- **2018** – **Best Paper Award** for Kropczynski, J., Grace, R., Coche, J., Obeysekare, E., Benaben, F., Halse, S., Montarnal, A., Tapia, A., “Identifying Actionable Information on Social Media for Emergency Dispatch”, *Proceedings of ISCRAM Asia Pacific’18*, Wellington, New-Zealand
- **2016** – **Best Paper Award (Mini-track)** for Benaben, F., Lauras, M., Truptil, S., Salatgé, N., “A Metamodel for Knowledge Management in Crisis Management”, *Proceedings of 49th HICSS’16*, Hawaii, USA
- **2013** – **Best Paper Award** for Barthe-Delanoë A.-M., Lauras, M., Truptil, S., Benaben, F., Pingaud, H. “A Platform for Event-Driven Agility of Processes: A Delivery Context Use-Case”, *Proceedings of Pro-VE’13*, Springer, IFIP, Volume 408, pp. 681-690. Dresden, Germany
- **2010** – **Best Paper Award** for Benaben, F., Mu, W., Truptil, S., Lorré, J.-P., Pingaud, H., “Information Systems design for emerging ecosystems: A model-driven approach diving into abstraction layers”, *Proceedings of IEEE-DEST’10*, Springer-Verlag. Dubai, UAE
- **2006** – **Best Paper Award** for Touzi, J., Benaben, F., Pingaud, H., “Collaborative information system design: from process model to information system model”, *Proceedings of INCOM’06*, Volume 1, pp. 615-620. St Etienne, France

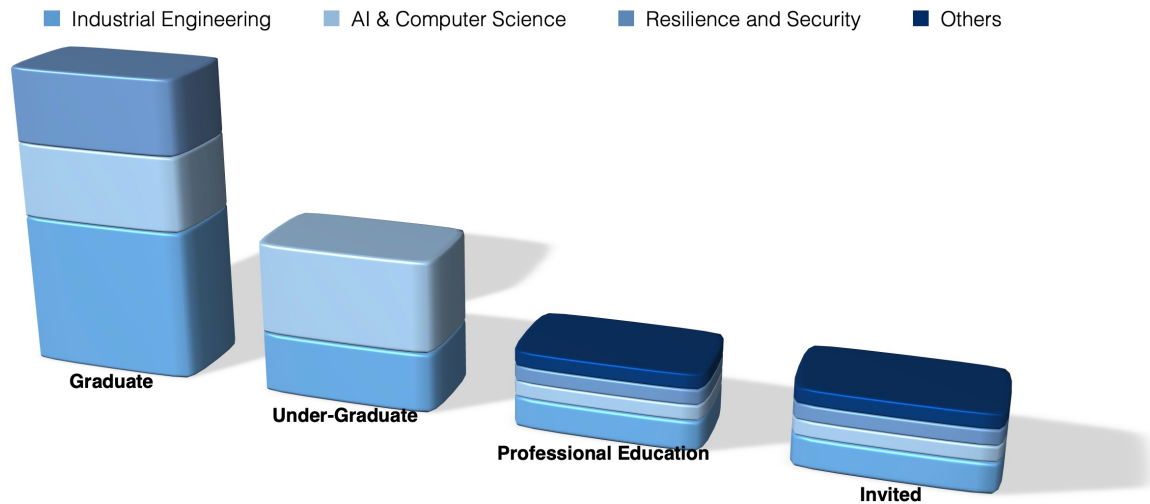
INNOVATION & TECHNOLOGY AWARDS

- **2025** – “Enterprise & Productivity Solution” Award of the 27th [LAVAL VIRTUAL](#) European XR (VR & AR) Event – **POD** Project
- **2023** – **Bronze Medal** [IT’Night](#) French Trophy (Tech Event) – **POD** Project
- **2022** – “Industrial” Award of the 24th [LAVAL VIRTUAL](#) European XR (VR & AR) Event – **EGCERSIS** Project
- **2019** – **Semi-finalist of the IBM** [Call4Code](#) competition (among 5,000+ competitors worldwide) – **R-IO Suite** Crisis Management Platform

COMMUNITY AWARDS

- **2019** – **ISCRAM association’s distinguished service award**, prize given once a year to one of the ISCRAM association members for their work in the service of the community.

TEACHING EXPERIENCE



GRADUATE COURSES

- **Performance Management of Complex Systems (IMMERSIVE)** Using AI to perform Descriptive and Predictive Analytics (application to supply chain) – **Ph.D. Georgia Tech / IMT – 2024-present**
- **Resilience, Risk Management and Crisis Management of Systems** Merging AI and Model Engineering for Decision Making in unstable context – **M.S. IMT – 2015-present**
- **Model-Driven Engineering** Using Abstract Frameworks and Reference Languages to design, analyze and formalize Complex Systems – **M.S. IMT – 2013-present**
- **Modern Supply Chain Fundamentals (IMMERSIVE)** Principles of Data / Demand / Risk / Performance-driven for Supply Chain – **Ph.D. Georgia Tech / IMT – 2024-present**

UNDER-GRADUATE COURSES

- **Prospective Story** Using Engineering skills and Knowledge to imagine one credible future for a specific social domain – **2nd year IMT – 2022-present**
- **Business Process Management** Covering Abstraction Layers and Granularity Levels of Business Process Modeling – **1st year IMT – 2008-present**
- **UML Modeling** Static and Dynamic Object-Oriented Modeling of Complex Systems – **1st year IMT – 2001-present**
- **Basics of Data Analysis** Using Principal Component Analysis and Correspondence Factor Analysis for sensemaking of data sets – **1st year IMT – 2008-2018**
- **Project Management** Planning and Supervision of Projects using WBS, RBS, PBS – **1st year IMT – 2003-2012**
- **Algorithms and Development** Basic and Advanced Principles of Algorithmics, and Implementation with C and Java – **1st year IMT – 2001-2012**

PROFESSIONAL EDUCATION COURSES

- **Generative Artificial Intelligence for Supply Chain Management** *Building GenAI-based agents for Supply Chain Management* – **Georgia Tech PE (3 days)** – 2025-present
- **Fundamentals of Modern Supply Chain** (**IMMERSIVE**) *Basics of Supply Chain Management using Gamification* – **Georgia Tech PE (3 days)** – 2025-present
- **Resilience and Risk Management for Supply Chain** *Best Practices and a Formal Approach for Risk modeling and Resilience leveraging for Supply Chain* – **Georgia Tech PE (3 days)** – 2025-present
- **From Performance Management to Business Intelligence** *An Overview of the Concepts and Business Intelligence Tools for Performance Management* – **Georgia Tech PE (2 days)** – 2025-present
- **Leadership and Team Management** *Principles of Team building, unifying project, and competition sport analogy* – **ENSOSP Firefighter Officers (2 days)** – 2010-2018

INVITED SHORT COURSES

- **Principles of Crisis Management** *Big Picture of the main Concepts of Crisis Management including Prevention, Preparation, Response and Recovery* – **Firefighter Officers ENSOSP / Ph.D. Virginia Tech (2 days)** – 2012-2022
- **SOA/EDA Information System Design** *Presentation of Service-Oriented and Event-Driven Architectures of Information Systems* – **M.S. ISAE Supaero / M.S. Health&IT Engineering School / M.S. Université de Toulouse / M.S. & Ph.D. Universidad de la República Montevideo (3 days)** – 2005-2015
- **Public technical or scientific Presentation** *Rules and Best Practices for Public Presentation* – **M.S. IMT / Ph.D. IMT / Faculties IMT (1/2 day)** – 2020-present
- **Business Process Management** *Organization analyze and improvement through the design of a business process cartography* – **M.S. Toulouse Business School (3 days)** – 2010-2016
- **Performance Management for Decision Making** *Basics of Key Performance Indicators calculation, visualization, and aggregation* – **M.S. Toulouse Business School / M.S. EMLyon Business School / M.S. IMT Business School (3 days)** – 2020-present

RESPONSIBILITIES

- **Leader HITeC Program** *Hybrid Immersive Teaching Campus* – **Joint program IMT / Georgia Tech on Immersive Technologies for Supply Chain Teaching** – 2022-...
- **Director GSI Major Information System Engineering** – **M.S. Program IMT** – 2015-2020
- **Responsible Transitions** *Including Energy / Industry / Digital Transitions in Engineering Teaching* – **M.S. Program IMT** – 2020-...
- **Responsible ICT** *Including Information Systems in Engineering Teaching* – **M.S. Program IMT** – 2005-2015

SERVICE TO THE PROFESSION

MAIN CONTRIBUTIONS TO CONFERENCES

- **2026 – Pre-Conference co-Chair**, International Physical Internet Conference (100+ attendees) – IPIC’26, Bordeaux, France.
- **2025 – Organization Chair**, French Days for Immersive Technologies (50+ attendees) – JF.XR’25, Albi, France.
- **2024 – Organization Chair**, International Physical Internet Conference (100+ attendees) – IPIC’24, Savannah, USA.
- **2020 – Doctorial Colloquium Chair**, International Conference on Information Systems for Crisis Response And Management (20 Ph.D. students) – ISCRAM’20, Virginia Tech, USA.
- **2018-... – MiniTrack Primary Chair**, *DIRECT MiniTrack (Disaster Information, Resilience for Emergency and Crisis Technologies)*, Hawaiian International Conference on System Science (Top 3 Minitrack among a hundred MiniTracks) – HICSS
- **2017 – General Conference Chair**, International Conference on Information Systems for Crisis Response And Management (250+ attendees) – ISCRAM’17, Albi, France.
- **2015 – General Conference Chair**, International Working Conference on Virtual Enterprise (100+ attendees) – PRO-VE’15, Albi, France.
- **2014 – General Conference Chair**, International Conference on Interoperability for Enterprise Systems and Applications (150+ attendees) – I-ESA’14, Albi, France.
- **2012-2018 – Workshop Chair**, *I-CRIMA Workshop (Interoperability in Crisis Management)*, International Conference on Interoperability for Enterprise Systems and Applications (15 contributors) – I-ESA
- **2009-2012 – Workshop Chair**, *SOA4CriM Workshop (Service-Oriented Architecture for Crisis Management)*, International Conference on Information Systems for Crisis Response And Management (10 contributors) – ISCRAM

MAIN PARTICIPATIONS IN SCIENTIFIC COMMUNITIES

- **2016-2020 – Member, ISCRAM Board of Directors**, Information Systems for Crisis Response And Management International Association (500+ members)
- **2017-2018 – President, ISCRAM Board of Directors**, Information Systems for Crisis Response And Management International Association (500+ members)
- **2020-... – Member, IFIP 5.15 WG**, Information Technology in Disaster Risk reduction
- **2015-... – Member, IFIP 5.5 WG**, Cooperation infrastructure for Virtual Enterprise
- **2010-... – Member, PGSO Board**, French Pole of the International Virtual Laboratory on Interoperability, I-VLab (50+ members for PGSO and 300+ members for I-VLab)
- **2010-2018 – Chair, Thematic Group**, Interoperability in Crisis Management from I-VLab (300+ members)

MAIN CONTRIBUTIONS TO EVALUATION PROCESSES

- **Evaluators of Academic Research Centers**, France, Norway, Sweden
- **Project Proposal Expert Reviewers**, for European, French, and Swiss Research Agencies
- **Member of Ph.D. / Habilitation Committees**, France, USA, Canada, Netherlands, Italy, Germany, Tunisia, etc.
- **Reviewer for Q1 International Scientific Journals**, DSS, EAAI, CII, IJPR, IJCIM, JIII, etc.
- **Reviewer for International Conferences**, HICSS, ISCRAM, Pro-VE, Coop-IS, CAISE, etc.

SCIENTIFIC SUPPORT AND MENTORING

- **HIDDEN FIGURES Startup**, AI and VR based performance visualization tool (to be created in 2026)
- **DITCH BRIDGE Startup**, AI-based hyper-vision platform for event and critical site management (created in 2026)
- **HOPTEO Startup**, AI-based academic pathway finder for High School students (created in 2019)
- **DRONE FOR FUTURE Startup**, AI and VR based Suite of Tools for Digital Twin (created in 2018)
- **ITEROP Startup**, Agile Business Process Management (created in 2013 and acquired by DASSAULT Systèmes in 2021)

COMPLEMENTS AND VOLUNTEERING

- **Soccer Coach, 1 season, 2023-2024**, *Johnson Ferry Soccer* – **U10 Girls Upward, USA**
- **Soccer Coach, 1 season, 2018-2019**, *Johnson Ferry Soccer* – **U12 Boys Upward, USA**
- **Volley-Ball Coach, 14 seasons, 2003-2017**, from *1st Regional Division* to *3rd National League* and to *2nd National League* – **Men Albi, France**
- **Volley-Ball Player, 3 seasons 2003-2006**, *3rd National League* – **Men Albi, France**
- **Volley-Ball Coach, 2 seasons, 2003-2005**, *1st Regional Division* – **U12 Girls Albi, France**
- **Volley-Ball Player, 7 seasons, 1996-2003**, *3rd National League* – **Men Nîmes, France**
- **Volley-Ball Coach, 2 seasons, 1998-2000**, *3rd National League* – **Women Nîmes, France**
- **Volley-Ball Coach, 2 seasons, 1996-1998**, *1st Regional Division* – **U15 Boys Nîmes, France**
- **Black Belt in Judo**
- **Finisher of a dozen of half-marathons**