

# Isabelle WATTIAU

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## RESEARCH INTERESTS

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Information Systems, Decision Support Systems, Other research theme, Data and information

## EDUCATION

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| 1997 | HDR, Université de Versailles Saint-Quentin-en-Yvelines, France  |
| 1990 | Doctorat in Computer Systems, Sorbonne Université, France  |
| 1985 | Engineering degree, École Nationale Supérieure d'Informatique pour l'Industrie et l'Entreprise, France |

## EMPLOYMENT

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### Full-time academic positions

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| 1998 - Present | Professor, ESSEC Business School, France           |
| 1994 - 1998    | Associate Professor, ESSEC Business School, France |
| 1988 - 1994    | Assistant Professor, ESSEC Business School, France |

### Other affiliations and appointments

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|-------------|--|
| 2019 - 2026 | Holder of the Data & AI Strategy & Governance Chair, ESSEC Business School, France |
| 2008 - 2026 | Head program MS MSIR, ESSEC Business School, France                                |

## GRANTS AND HONORS

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### Awards and Honors

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| 2016 | Best Paper Award, 18 International Conference on Information Systems (ICEIS), pour l'article : Structuring Guidelines for Web Application Designers - A Meta-Model, Italy       |
| 2015 | Chevalier dans l'ordre des palmes académiques, France   |
| 2010 | Best paper award, Second International Conference on Advances in Databases, Knowledge, and Data Applications, International Academy, Research, and Industry Association, France |

### Journal Articles

- AKOKA, J. and WATTIAU, I. (2025). IS/IT Backsourcing decision making - A design science research approach. *Decision Support Systems*, 189, pp. 114379.
- AKOKA, J. and WATTIAU, I. (2025). La gouvernance des données et de l'information – théorie, perception et pratique. *Archives*, 52(1), pp. 25-41.
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- SANGUPAMBA MWILU, O., PRAT, N. and WATTIAU, I. (2024). A Taxonomy Development Method to Define the Vocabulary for Rule-Based Guidance in Complex Emerging Technologies. *Business and Information Systems Engineering*, 66, pp. 161-180.
- AKOKA, J., WATTIAU, I., PRAT, N. and STOREY, V.C. (2024). Unraveling the foundations and the evolution of conceptual modeling—Intellectual structure, current themes, and trajectories. *Data & Knowledge Engineering*, 154, pp. 102351.
- AKOKA, J. and WATTIAU, I. (2024). Une approche arborescente d'évaluation de la valeur des données. *Revue Ouverte d'Ingénierie des Systèmes d'Information*, 4(2).
- AKOKA, J., WATTIAU, I., PRAT, N. and STOREY, V.C. (2023). Knowledge contributions in design science research: Paths of knowledge types. *Decision Support Systems*, 166, pp. 113898.
- AKOKA, J., WATTIAU, I., LAMASSE, S. and DU MOUZA, C. (2021). Conceptual modeling of prosopographic databases integrating quality dimensions. *Journal of Data Mining & Digital Humanities*, Special Issue on Data Science and Digital Humanities @ EGC 2018.
- WATTIAU, I. (2020). How Covid-19 Positively Impacts Information Governance Democratization. *Strategies in Accounting and Management*, 1(4), pp. 1-2.
- AKOKA, J., WATTIAU, I. and DU MOUZA, C. (2020). Conception de bases de données prosopographiques en histoire - un état de l'art. *Revue Ouverte d'Ingénierie des Systèmes d'Information*, 1(3).
- WATTIAU, I. (2020). Comment l'épidémie de Covid-19 permet de mieux expliquer l'importance de la définition des méta-données ? *Question(s) de Management*.
- SOUAG, A., MASO, R., SALINESI, C. and WATTIAU, I. (2018). Using the AMAN-DA method to generate security requirements: A case study in the maritime domain. *Requirements Engineering*, 23, pp. 557-580.
- AKOKA, J. and WATTIAU, I. (2018). Roundtrip engineering of NoSQL databases. *Enterprise Modelling and Information Systems Architectures - International Journal on Conceptual Modelling*, 13(2018), pp. 281-292.
- BEN FREDJ, F., LAMMARI, N. and WATTIAU, I. (2018). Anonymisation de données par généralisation - méthode avec guidage. *Ingenierie des Systemes D'Information*, 23(1), pp. 63-87.
- AKOKA, J., COMYN-WATTIAU, I. and LAOUFI, N. (2017). Research on Big Data – a Systematic Mapping Study. *Computer Standards & Interfaces*, 54, pp. 105-115.
- SANGUPAMBA MWILU, O., WATTIAU, I. and PRAT, N. (2016). Design Science Research Contribution to Business Intelligence in the Cloud — a Systematic Literature Review. *Future Generation Computer Systems*, 63, pp. 108-122.

- SOUAG, A., MAZO, R., SALINESI, C. and WATTIAU, I. (2016). Reusable Knowledge in Security Requirements Engineering: A Systematic Mapping Study. *Requirements Engineering*, 21(2), pp. 251-283.
- PRAT, N., WATTIAU, I. and AKOKA, J. (2015). A Taxonomy of Evaluation Methods for Information Systems Artifacts. *Journal of Management Information Systems*, 32(3), pp. 229-267.
- AKOKA, J., WATTIAU, I., DU MOUZA, C., FADILI, H., LAMMARI, N. and METAIS, E. (2014). A Semantic Approach for Semi-Automatic Detection of Sensitive Data. *Information Resources Management Journal*, 27(4), pp. 23-44.
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- WATTIAU, I., SI-SAID CHERFI, S. and AYAD, S. (2013). Improving Business Process Model Quality Using Domain Ontologies. *Journal on Data Semantics*, 2, pp. 75-88.
- PRAT, N., AKOKA, J. and WATTIAU, I. (2012). An MDA Approach to Knowledge Engineering. *Expert Systems with Applications*, 39(12), pp. 10420-10437.
- BERTI-ÉQUILLE, L., WATTIAU, I., COSQUER, M., KEDAD, Z., NUGIER, S. and PERALTA, V. (2011). Assessment and Analysis of Information Quality: A Multidimensional Model and Case Studies. *International Journal of Information Quality*, 2(4), pp. 300-323.
- PRAT, N., WATTIAU, I. and AKOKA, J. (2011). Combining Objects with Rules to Represent Aggregation Knowledge in Data Warehouse and OLAP Systems. *Data and Knowledge Engineering*, 70(8), pp. 732-752.
- WATTIAU, I., AKOKA, J. and BERTI, L. (2010). La qualité des systèmes d'information - vers une vision plus intégrée. *Ingenierie des Systemes D'Information*, 15(6), pp. 9-32.
- AKOKA, J., COMYN-WATTIAU, I. and SI-SAID CHERFI, S. (2009). Etude comparée informaticiens vs. utilisateurs. *Ingenierie des Systemes D'Information*, 14(4), pp. 33-54.
- AKOKA, J. and COMYN-WATTIAU, I. (2009). Vers l'ingénierie des évolutions. *Ingenierie des Systemes D'Information*, 14(6), pp. 9-17.
- WATTIAU, I. and AKOKA, J. (2009). Gérer et reconfigurer les processus. *Economie et Management*, 133.
- LAMMARI, N., COMYN-WATTIAU, I. and AKOKA, J. (2007). Extracting Generalization Hierarchies from Relational Databases - A Reverse Engineering Approach. *Data and Knowledge Engineering*, pp. 568-589.
- PRAT, N., AKOKA, J. and COMYN-WATTIAU, I. (2006). A UML-based Data Warehouse Design Method. *Decision Support Systems*, 42(3), pp. 1449-1473.
- LAMMARI, N., AKOKA, J. and COMYN-WATTIAU, I. (2004). An Ontology-based Approach for Database Evolution. *Gesellschaft für Informatik e.V.* pp. 31-33.
- AKOKA, J. and COMYN-WATTIAU, I. (2001). La rétro-conception des bases de données et des systèmes de fichiers. Un état de l'art. *Ingenierie des Systemes D'Information*, pp. 9-59.
- COMYN-WATTIAU, I. and AKOKA, J. (1999). Relational Database Reverse Engineering. *Ingenierie des Systemes D'Information*, pp. 345-378.
- AKOKA, J., BRIOLAT, D. and COMYN-WATTIAU, I. (1998). La sécurité des réseaux : une approche de détection de malveillances. *Systemes d'Information et Management*, pp. 23-42.

AKOKA, J. and COMYN-WATTIAU, I. (1997). An Expert System for Financial and Accounting Information System Auditing. *Computer Audit Update*, pp. 8-19.

COMYN-WATTIAU, I. and AKOKA, J. (1997). Expert System for Computer and Management Information Systems Auditing. *Computer Audit Update*, pp. 17-27.

METAIS, E., KEDAD, Z., COMYN-WATTIAU, I. and BOUZEGHOUB, M. (1997). Using Linguistic Knowledge in View Integration : Toward a Third Generation of Tools. *Data and Knowledge Engineering*, pp. 59-78.

AKOKA, J. and COMYN-WATTIAU, I. (1996). A Knowledge-based System for Auditing Computer and Management Information Systems. *Expert Systems with Applications*, pp. 361-375.

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AKOKA, J., BRIOLAT, D. and COMYN-WATTIAU, I. (1996). Un modèle économétrique. *Systèmes d'Information et Management*, pp. 5-28.

COMYN-WATTIAU, I. and AKOKA, J. (1994). Classification automatique de schémas conceptuels : une approche unifiée. *Ingenierie des Systemes D'Information*, pp. 437-475.

AKOKA, J. and COMYN-WATTIAU, I. (1993). PTILOT : un système expert de prévision du taux d'intérêt à long terme. *Revue Sciences de Gestion (Iseor)*, pp. 109-133.

#### Books and book editor

AKOKA, J., LIDDLE, S.W., SONG, I., BERTOLOTTO, M. and COMYN-WATTIAU, I. (2005). *Perspectives in Conceptual Modeling*. Springer, 476 pages.

COMYN-WATTIAU, I., AKOKA, J. and BRIOLAT., D. (2004). *Management avec Excel en pratique*. Vuibert, 252 pages.

COMYN-WATTIAU, I. and AKOKA, J. (2003). *Les bases de données*. PUF, 128 pages.

AKOKA, J. and COMYN-WATTIAU, I. (2002). *L'informatique*. PUF, 128 pages.

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COMYN-WATTIAU, I., DU MOUZA, C. and PRAT, N. [Eds] (2016). *Ingénierie et management des systèmes d'information - Mélanges en l'honneur de Jacky Akoka*. Cépaduès Éditions, 349 pages.

AKOKA, J. and COMYN-WATTIAU, I. [Eds] (2006). *Encyclopédie de l'informatique et des systèmes d'information*. Vuibert, 2000 pages.

#### Book chapters

AKOKA, J., WATTIAU, I. and STOREY, V.C. (2023). Design Science Research: Progression, Schools of Thought and Research Themes. In: Aurna Gerber, Richard Baskerville eds. *Design Science Research for a New Society: Society 5.0*. 1 ed. Cham: Springer Nature Switzerland, pp. 235-249.

KOUADRI, W.M., AKOKA, J., WATTIAU, I. and DU MOUZA, C. (2022). Uncertainty Detection in Historical Databases. In: Paolo Rosso, Valerio Basile, Raquel Martínez, Elisabeth Métais, Farid Meziane eds. *Natural Language Processing and Information Systems*. 1 ed. Springer International Publishing, pp. 73-85.

WATTIAU, I. and AKOKA, J. (2019). Query-Based Reverse Engineering of Graph Databases – From Program to Model. In: Tatjana Welzer, Johann Eder, Vili Podgorelec, Robert Wrembel, Mirjana Ivanović, Johann Gamper, Mikoaj Morzy, Theodoros Tzouramanis, Jérôme Darmont, Aida Kamišalić Latifić eds. *New Trends in Databases and Information Systems*. 1 ed. Springer International Publishing, pp. 188-197.

AKOKA, J. and COMYN-WATTIAU, I. (2017). A Method for Emerging Technology Evaluation. Application to Blockchain and Smart Data Discovery. In: *Conceptual Modeling Perspectives*. 1st ed. Springer, pp. 247-258.

WATTIAU, I., DO TUZN, A. and SI-SAID CHERFI, S. (2017). Guidelines for Web Application Designers - A meta-model, a grammar, and a tool. In: S. Hammoudi, L. Maciaszek, M. Missikoff, O. Camp, J. Cordeiro (Eds.) eds. *Enterprise Information Systems*. 1st ed. Springer, pp. 242-260.

WATTIAU, I., BENFREDJ, F. and LAMMARI, N. (2016). L'anonymisation des données par généralisation - un arbre de décision. In: Isabelle Comyn-Wattiau, Cédric du Mouza, Nicolas Prat eds. *Ingénierie et management des systèmes d'information*. 1st ed. Cépaduès Éditions, pp. 159\_171.

AKOKA, J. and COMYN-WATTIAU, I. (2014). Les systèmes d'information comptables Modélisation et évaluation. In: *Comptabilité, Finance et Politique. De la pratique à la théorie : l'art de la conceptualisation*. 1st ed. Ordre des Experts-Comptables, pp. 297-310.

WATTIAU, I., SI-SAID CHERFI, S. and AKOKA, J. (2012). Qualité des modèles de données. In: Laure Berti-Equille (ed.). *La qualité et la gouvernance des données au service de la performance des entreprises*. 1st ed. Hermès Sciences, Lavoisier, pp. 79-118.

AKOKA, J. and COMYN-WATTIAU, I. (2006). Audit des systèmes d'information. In: *Encyclopédie de l'informatique et des systèmes d'information*. 1st ed. Vuibert, pp. 1534-1545.

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LAMMARI, N., COMYN-WATTIAU, I. and AKOKA, J. (2002). An Extensible Framework for Web Sites Integration. In: *Engineering Information Systems in The Internet Context*. 1st ed. Kluwer Academic Publishers, pp. 303-332.

AKOKA, J. and COMYN-WATTIAU, I. (2000). Auditing Computer and Management Information Systems. In: *Encyclopedia of Library and Information Science*. 1st ed. Dekker M., Inc. pp. 25-45.

COMYN-WATTIAU, I. and BOUZEGHOUB, M. (1991). View Integration by Semantic Unification and Transformation of Data Structures. In: *Entity-Relationship Approach : The Core of Conceptual Modelling*. 1st ed. Elsevier, pp. 381-398.

### Guest editor of a journal special issue

WATTIAU, I., SONG, I.Y., TANAKA, K., SAEKI, M. and YAMAMOTO, S. (2018). Guest editorial – Special issue on conceptual modeling — 35th International Conference on Conceptual Modeling (ER2016). *Data & Knowledge Engineering*, 117, pp. 336-338.

### Conference proceedings editor

AKOKA, J., BRIOLAT, D. and COMYN-WATTIAU, I. (1999). Actes du 4ème colloque de l'AIM. Association for Information Management (AIM), France.

AKOKA, J., BOUZEGHOB, M., COMYN-WATTIAU, I. and METAIS, E. (1999). Lecture Notes in Computer Science. Conceptual Modeling - ER'99. 8th International Conference on Conceptual Modeling. Springer, France.

## Conference proceedings

- AKOKA, J. and WATTIAU, I. (2024). Risques induits par l'intelligence artificielle - Une approche d'aide à l'identification. In: *42ème Edition du Congrès INFORSID 2024*. Nancy: INFormatique des ORganisations et Systèmes d'Information et de Décision.
- AKOKA, J., WATTIAU, I. and STOREY, V.C. (2023). Design Science Research: Progression, Schools of Thought and Research Themes. In: *18th International Conference on Design Science Research in Information Systems and Technology (DESRIST 2023)*. Pretoria: University of Pretoria.
- AKOKA, J., WATTIAU, I., PRAT, N. and STOREY, V.C. (2023). The journey of conceptual modeling: Paths from the past to present with trajectories for the future. In: *CEUR Workshop Proceedings (CEUR-WS.org)*. CEUR-WS.org, pp. 1-21.
- AKOKA, J. and WATTIAU, I. (2022). Evaluation de la valeur des données - modèle et méthode. In: *40ème Conférence INFORSID*. INFORSID.
- PRAT, N., AKOKA, J., WATTIAU, I. and STOREY, V.C. (2022). A Granular View of Knowledge Development in Design Science Research. In: *The Transdisciplinary Reach of Design Science Research - 17th International Conference on Design Science Research in Information Systems and Technology (DESRIST 2022)*. Springer, pp. 363-375.
- MAMMAR KOUADRI, W., AKOKA, J., WATTIAU, I. and DU MOUZA, C. (2022). Uncertainty Detection in Historical Databases. In: *Natural Language Processing and Information Systems: 27th International Conference on Applications of Natural Language to Information Systems, NLDB 2022, Valencia, Spain, June 15–17, 2022, Proceedings*. Springer, pp. 73-85.
- AKOKA, J., WATTIAU, I., DU MOUZA, C. and PRAT, N. (2021). Mapping Multidimensional Schemas to Property Graph Models. In: *Advances in Conceptual Modeling - ER 2021 Workshop Proceedings - Conceptual Modeling for NoSQL Data Stores (CoMoNoS)*. St John's: Springer, pp. 3-14.
- AKOKA, J., COMYN-WATTIAU, I., DU MOUZA, C. and PRAT, N. (2019). Design science research for the humanities – The case of prosopography. In: *14th International Conference on Design Science Research in Information Systems and Technology (DESRIST 2019)*. Worcester, MA: Springer International Publishing, pp. 239-253.
- AKOKA, J. and WATTIAU, I. (2019). Evaluation of Big Data Governance - Combining a multi-criteria and systems theory. In: *IEEE Congress on Services*. Institute of Electrical and Electronics Engineers (IEEE).
- AKOKA, J., WATTIAU, I., LAMASSE, S. and DU MOUZA, C. (2019). Modeling Historical Social Networks Databases. In: *52nd Hawaii International Conference on System Sciences*.
- HEVNER, A.R., PRAT, N., COMYN-WATTIAU, I. and AKOKA, J. (2018). A Pragmatic Approach for Identifying and Managing Design Science Research Goals and Evaluation Criteria. In: *: AIS SIGPRAG 6th Pre-ICIS Workshop "Practice-based Design and Innovation of Digital Artifacts"*. San Francisco: Association for Information Systems (AIS), pp. 1-15.
- BEN FREDJ, F., LAMMARI, N. and COMYN-WATTIAU, I. (2018). Relational Database Anonymization – A Model-Driven Guiding Approach. In: *Proceedings of the 4th International Conference on Information Systems Security and Privacy ICISSP - Volume 1*, International Conference on Information Systems Security and Privacy, pp. 161-170.
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SANGUPAMBA MWILU, O., PRAT, N. and COMYN-WATTIAU, I. (2014). Business Intelligence and Big Data in the Cloud: Opportunities for Design-Science Researchers. In: *Advances in Conceptual Modeling - Proceedings of ER 2014 Workshops, 2nd International Workshop on Modeling and Management of Big Data (MoBiD 2014)*. Atlanta: Springer, pp. 75-84.

PRAT, N., AKOKA, J. and COMYN-WATTIAU, I. (2012). Transforming Multidimensional Models into OWL-DL Ontologies. In: *6th International Conference on Research Challenges in Information Science (RCIS 2012)*. Valencia: Institute of Electrical and Electronics Engineers (IEEE), pp. 1-12.

WATTIAU, I., VASQUEZ, M., LAMMARI, N. and AKOKA, J. (2012). De l'analyse des risques à l'expression des exigences de sécurité. In: *30ème conférence INFORSID (INFormatique des ORganisations et Systèmes d'Information et de Décision)*. INFORSID.

PRAT, N., AKOKA, J. and COMYN-WATTIAU, I. (2011). Mapping CommonKADS Knowledge Models into PRR. In: *Proceedings of 23rd International Conference on Software Engineering and Knowledge Engineering (SEKE 2011)*. Miami: Knowledge Systems Institute Graduate School, pp. 143-148.

MEHMOOD, K., SI-SAID CHERFI, S., COMYN-WATTIAU, I. and AKOKA, J. (2011). A Pattern-oriented Methodology for Conceptual Modeling Evaluation and Improvement. In: *Proceedings of the 5th International Conference on Research Challenges in Information Science (RCIS)*. Institute of Electrical and Electronics Engineers (IEEE).

- SI-SAID CHERFI, S., AKOKA, J. and COMYN-WATTIAU, I. (2011). Federating Information System Quality Frameworks Using a Common Ontology. In: *Proceedings of the 16th International Conference on Information Quality*. School of Computer and Information Science.
- WATTIAU, I., LAMMARI, N., BUCUMI, J.S. and AKOKA, J. (2011). A conceptual meta-model for secured information systems. In: *SESS '11: Proceedings of the 7th International Workshop on Software Engineering for Secure Systems*. Association for Computing Machinery (ACM), pp. 22-28.
- PRAT, N., COMYN-WATTIAU, I. and AKOKA, J. (2010). Representation of Aggregation Knowledge in OLAP Systems. In: *18th European Conference on Information Systems (ECIS 2010)*. Pretoria: University of Pretoria, pp. 1-12.
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- WATTIAU, I., DU MOUZA, C., METAIS, E., LAMMARI, N., AKOKA, J., AUBONNET, T. ... SI-SAID CHERFI, S. (2010). Towards an Automatic Detection of Sensitive Information in a Database. In: *The Second International Conference on Advances in Databases, Knowledge, and Data Applications, DBKDA 2010*. IEEE Computer Society.
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- MEHMOOD, K., SI-SAID CHERFI, S. and COMYN-WATTIAU, I. (2009). Data Quality Through Conceptual Model Quality - Reconciling Researchers and Practitioners Through A Customizable Quality Model. In: *Proceedings of the 14th International Conference on Information Quality*. Hasso Plattner Institute.
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- COMYN-WATTIAU, I., PERALTA, V., GOASDOUE-THION, V., KEDAD, Z., BERTI-EQUILLE, Z. and NUGIER, S. (2009). Multidimensional Management and Analysis of Quality Measures for CRM Applications in an Electricity Company. In: *Proceedings of the 14th International Conference on Information Quality*. Hasso Plattner Institute.
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- SI-SAID CHERFI, S., COMYN-WATTIAU, I. and AKOKA, J. (2008). Quality Patterns for Conceptual Modelling. In: *Conceptual Modeling - ER 2008*. Springer, pp. 142-153.
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### Press

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## OTHER RESEARCH ACTIVITIES

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### Chief Editor

Since 2020 Revue Ouverte d'Ingénierie des Systèmes d'Information

2017 - 2019 Ingénierie des Systèmes D'Information

### Editorial Board Membership

2019 - 2020 Management et Data Science

2019 - 2020 Open Journal of Information System

2019 - 2020 Journal of British Blockchain Association

2018 - 2020 Systèmes d'Information et Management

2017 - 2019 Ingénierie des Systèmes D'Information

2009 - 2021 Systèmes d'Information et Management

2009 Systèmes d'Information et Management

2008 - 2009 Ingénierie des Systèmes D'Information

2005 - 2007 Systèmes d'Information et Management

2001 - 2006 Ingénierie des Systèmes D'Information

### PhD Supervision

2010 Kashif MEHMOOD (ESSEC Business School), Thesis director, First Placement: Manager(IS) dans Marine Systems Limited (R&D Center) and Assistant Professor(Management - Iqra University Karachi, Defence View Housing Society, راجي، Pakistan

### Other research activities

- 2020 - 2022 Chair of the Steering Committee of the International Conference on Conceptual Modeling
- 2018 - 2020 Vice-Chair of ER Steering Committee