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RESEARCH INTERESTS

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

EDUCATION

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

Full-time academic positions

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

2019 - 2030	Holder of the Data & AI Strategy & Governance Chair, ESSEC Business School, France
2008 - 2027	Head program MS MSIR, ESSEC Business School, France

GRANTS AND HONORS

Awards and Honors

2023	ER Fellow
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

PUBLICATIONS

Journal Articles

AKOKA, J. and WATTIAU, I. (2026). La gouvernance des données et de l'information : élaboration d'un cadre conceptuel intégrateur. *Revue Ouverte d'Ingénierie des Systèmes d'Information*, 6(1), pp. 37-56.

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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.

AKOKA, J. and WATTIAU, I. (2014). Business Intelligence. Un état de l'art. *Ingenierie des Systemes D'Information*, 19(5), pp. 943.

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.

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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. *Systèmes d'Information et Management*, pp. 23-42.

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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.

AKOKA, J. and COMYN-WATTIAU, I. (1996). Entity-relationship and Object-oriented Model Automatic Clustering. *Data and Knowledge Engineering*, pp. 87-117.

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Books and book editor

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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.

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WATTIAU, I., MARCEL, P., POLACSEK, T., KARLAPALEM, K., JEAN, S., WANG, H. ... MA, H. [Eds] (2025). *Companion Proceedings of the 44th International Conference on Conceptual Modeling: Industrial Track, ER Forum, 8th SCME, Doctoral Consortium, Tutorials, Project Exhibitions, Posters and Demos Co-located with ER 2025, Poitiers, France, October 20-23, 2025. CEUR Workshop Proceedings 4099, CEUR-WS.org 2025*. CEUR-WS.org.

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 DU MOUZA, C. (2026). Automated Extraction of Conceptual Representations from Research Articles Using Large Language Models. In: Francesca Zerbato, Jelena Zdravkovic, Luise Pufahl, Geert Poels, Marite Kirikova eds. *Intelligent Information Systems*. 1 ed. Cham: Springer Nature Switzerland, pp. 11-19.

AKOKA, J., WATTIAU, I. and STOREY, V.C. (2023). Design Science Research: Progression, Schools of Thought and Research Themes. In: Aurona 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.

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COMYN-WATTIAU, I. and AKOKA, J. (2006). Conception et mise en oeuvre des bases de données. In: *Encyclopédie de l'informatique et des systèmes d'information*. 1st ed. Vuibert, pp. 500-512.

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.

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SANGUPAMBA MWILU, O., PRAT, N. and COMYN-WATTIAU, I. (2015). Taxonomy Development for Complex Emerging Technologies - The Case of Business Intelligence and Analytics on the Cloud. In: *19th Pacific Asia Conference on Information Systems (PACIS 2015) Proceedings*. Singapore: Association for Information Systems (AIS), pp. 1-16.

PRAT, N., COMYN-WATTIAU, I. and AKOKA, J. (2014). Artifact evaluation in information systems design-science research - a holistic view. In: *18th Pacific Asia Conference on Information Systems (PACIS 2014)*. Chengdu: Southwestern University of Finance and Economics (SWUFE), pp. 1-17.

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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).

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WATTIAU, I. (2024). Stratégie data et création de valeur.

Press

WATTIAU, I. (2023). Are French Companies Ready for the Data Revolution? *ESSEC Knowledge*.

OTHER RESEARCH ACTIVITIES

Chief Editor

Since 2020	Revue Ouverte d'Ingénierie des Systèmes d'Information
2017 - 2019	Ingenierie des Systemes 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	Ingenierie des Systemes D'Information
2009 - 2021	Systèmes d'Information et Management

2009 Systèmes d'Information et Management

2008 - 2009 Ingenierie des Systemes D'Information

2005 - 2007 Systèmes d'Information et Management

2001 - 2006 Ingenierie des Systemes 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, راچي، 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