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EDUCATION

- 1997 HDR, Université de Versailles Saint-Quentin-en-Yvelines, France
- 1990 Doctorat in Computer Systems, Sorbonne Université, France
- 1985 Engineering degree, Institut d'Informatique d'Entreprise (IIE), 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 - 2022 Head program MS MSIR, ESSEC Business School, France
- 2019 - Present Chaired Professor of the Information Strategy & Governance Chair, ESSEC Business School, France

GRANTS AND HONORS

Awards and Honors

- 2016 Best Paper Award, 18 International Conference on Information Systems (ICEIS), pour l'article : Structuring Guidelines for Web Application Designers - A Meta-Model

PUBLICATIONS

Journal Articles

- 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.
- 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.
- 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.
- 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.
- 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.

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

COMYN-WATTIAU, I. and AKOKA, J. (1996). Logistics Information System Auditing Using Expert System Technology. *Expert Systems with Applications*, pp. 463-473.

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.

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AKOKA, J. and COMYN-WATTIAU, I. (2001). *Conception des Bases de Données Relationnelles*. Vuibert, 269 pages.

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*. Cepaduès Éditions.

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

Book chapters

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.

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.

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.

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., BOUZEGHOUB, 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.

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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.

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.

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COMYN-WATTIAU, I., DO TUZN, A. and CHEF, S. (2016). Structuring Guidelines for Meta-Model. In: *18th International Conference on Enterprise Information Systems (ICEIS)*. Institute for Systems and Technologies of Information, Control and Communication (INSTICC).

AKOKA, J., COMYN-WATTIAU, I. and PRAT, N. (2016). The Structure of DSR Knowledge as Reflected by DESRIST: A Citation Analysis. In: *11th International Conference on Design Science Research in Information Systems & Technology (DESRIST 2016)*. St. John: Springer, pp. 177-185.

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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.
- 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.
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- 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.
- 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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- AKOKA, J. and COMYN-WATTIAU, I. (2009). Mobilité et bureaux virtuels - Un modèle d'adoption. In: *Pratiques des SI au service des entreprises - Réalités et perspectives*. Reims Management School.
- 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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- KERSULEC, G., SI-SAID CHERFI, S., COMYN-WATTIAU, I. and AKOKA, J. (2009). Un environnement pour l'évaluation et l'amélioration de la qualité des modèles de systèmes d'information. In: *Actes du XXVIIe Congrès INFORSID*. IRIT Press, pp. 329-344.

- AKOKA, J., COMYN-WATTIAU, I. and SI-SAID CHERFI, S. (2008). Quality of Conceptual Schemas: An Experimental Comparison. In: *Proceedings of the IEEE International Conference on Research Challenges in Information Science*. Institute of Electrical and Electronics Engineers (IEEE), pp. 197-208.
- 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.
- AKOKA, J., BERTI, L., BOUCELMA, O., BOUZGHOUB, M., COMYN-WATTIAU, I. and COSQUER, M. (2007). A Framework for Quality Evaluation in Data Integration Systems. In: *9th International Conference on Enterprise Information Systems Proceedings (ICEIS 2007)²*. Institute for Systems and Technologies of Information, Control and Communication (INSTICC), pp. 170-175.
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- SI-SAID, S., AKOKA, J. and COMYN-WATTIAU, I. (2007). Perceived vs. Measured Quality of Conceptual Schemas: An Experimental Comparison. In: *Proceedings of the 26th International Conference on Conceptual Modeling (ER2007): Tutorials, Posters, Panels and Industrial Contributions at the 26th International Conference on Conceptual Modeling*. CRPIT, pp. 185-190.
- AKOKA, J. and COMYN-WATTIAU, I. (2006). Developing a Framework for Analyzing IS/IT Backsourcing. In: *Proceedings of the 11th International Conference of the Association Information and Management (AIM): Information Systems and Collaboration: State of the Art and Perspectives*. GI-Edition, pp. 330-340.
- SI-SAID CHERFI, S., AKOKA, J. and COMYN-WATTIAU, I. (2006). Use Case Modeling and Refinement: A Quality-based Approach. In: *Conceptual Modeling - ER 2006*. Springer, pp. 84-97.
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- SI SAID, S., AKOKA, J. and COMYN-WATTIAU, I. (2003). A Framework for Conceptual Modeling Quality Evaluation. In: *Proceedings of the 13th International Conference on Software Quality*. ASQ Software Division.
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OTHER RESEARCH ACTIVITIES

Chief Editor

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 Ingenierie des Systemes D'Information
- 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, راجي، Pakistan

Other research activities

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