

Nicolas PRAT

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Département: Systèmes d'Information, Data
Analytics et Opérations
Campus de Cergy

DIPLÔMES

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- | | |
|------|--|
| 1999 | Doctorat d'Informatique
(Université Paris Dauphine-PSL France) |
| 2012 | Habilitation à diriger des recherches
(Université Paris Dauphine-PSL France) |
| 1991 | Mastère Spécialisé en Conception et Gestion des Systèmes d'Information et de
Décision
(ESSEC Business School France) |
| 1990 | MSc en Management
(ESSEC Business School France) |

CERTIFICATS

- | | |
|------|---|
| 2004 | International Teachers Programme (ITP)
(Stockholm School of Economics Suède) |
|------|---|

CARRIÈRE

POSITIONS ACADÉMIQUES PRINCIPALES

- | | |
|-------------------|---|
| 1999 - 2006-08-31 | Professeur assistant (ESSEC Business School France) |
| 2006 - Présent | Professeur associé (ESSEC Business School France) |

AUTRES POSITIONS

- 2014 - 2014-11-30 Chercheur invité (University of Alicante Espagne)
- 2015 - 2015-02-28 Chercheur invité (University of Alicante Espagne)
- 2015 - 2015-08-31 Chercheur invité (MIT Sloan School of Management États-Unis)
- 2007 - 2007-08-31 Chercheur invité (MIT Sloan School of Management États-Unis)
- 2007 - 2010-08-31 Responsable du département Systèmes d'information et de décision (ESSEC Business School France)

AUTRES POSITIONS ACADÉMIQUES

- 2005 - 2013-01-01 Professeur responsable à l'ESSEC du Master Recherche SID (Systèmes d'Information et de Décision), en co-habilitation avec l'Université de Paris 1 et le CNAM (ESSEC Business School France)
- 1995 - 1999-08-31 Chargé de cours (ESSEC Business School France)
- 2012 - Présent Responsable de la filière Systèmes d'Information (ESSEC Business School France)
- 1999 - 1999-06-30 Chargé de cours (École Supérieure des Affaires (ESA) France)
- 2013 - 2017-10-31 Directeur académique du Programme de management spécialisé Management des systèmes d'information (formation permanente) (ESSEC Business School France)
- 2017 - 2019-10-31 Responsable académique du parcours systèmes d'information, Programme Management et Gestion des Organisations (formation permanente) (ESSEC Business School France)
- 2020 - 2022-08-31 Directeur Académique du MSc Transformation Digitale des Sociétés et des Organisations (ESSEC Business School France)
- 2025 - 2026-08-31 Responsable de la filière Digital transformation and digital business Track (ESSEC Business School France)

PUBLICATIONS

ACTES D'UNE CONFÉRENCE

[PRAT, N. et AKOKA, J. \(2002\). From UML to ROLAP Multidimensional Databases Using a Pivot Model. Dans: *18èmes Journées Bases de Données Avancées \(BDA 2002\)*. Evry: INT, pp. 171-195.](#)

[PRAT, N. \(2013\). Goal Formalisation and Classification for Requirements Engineering, Fifteen Years Later. Dans: *Proceedings of 7th IEEE International Conference on Research Challenges in Information Science \(RCIS\)*. Paris: IEEE Xplore, pp. 1-12.](#)

[AKOKA, J., COMYN-WATTIAU, I. et PRAT, N. \(1993\). INFAUDITOR : An Expert System for Information Systems Auditing. Dans: *Artificial Intelligence Technology Applications and Management \(ICC 1993\)*. McGraw-Hill, pp. 402-409.](#)

[PRAT, N. \(2002\). Management des connaissances : un cadre intégrateur pour combiner les approches systèmes d'information, management et intelligence artificielle. Dans: *7ème Colloque de l'AIM \(AIM 2002\)*. Hammamet: Association Tunisienne des Sciences de Gestion \(ATSG\), pp. 1-10.](#)

[PRAT, N. et MADNICK, S. \(2008\). Measuring Data Believability: A Provenance Approach. Dans: *Proceedings of the 41st Hawaii International Conference on System Sciences \(HICSS-41\)*. Waikoloa: Institute of Electrical and Electronics Engineers \(IEEE\), pp. 1-10.](#)

[SI-SAID CHERFI, S. et PRAT, N. \(2003\). Multidimensional Schema Quality: Assessing and Balancing Analyzability and Simplicity. Dans: *International Workshop on Conceptual Modeling Quality \(IWCMQ 2003\) in Conjunction with the 22nd International Conference on Conceptual Modeling \(ER 2003\): Conceptual Modeling for Novel Application Domains*. Chicago: Springer, pp. 140-151.](#)

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

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

[DEMIGHA, S. et PRAT, N. \(2004\). A Cased-based Training System in Radiology-senology. Dans: *International Conference on Information and Communication Technologies: From Theory to Applications. ICTTA'04 Proceedings*. Damascus: Institute of Electrical and Electronics Engineers \(IEEE\), pp. 1-6.](#)

[THIELE, O., KNAPP, H., SCHADER, M. et PRAT, N. \(2006\). A Context-aware Architecture for Mobile Knowledge Management. Dans: *Proceedings of the International Conference on Wireless Information Networks and Systems \(WINSYS 2006\)*. Setúbal: Institute for Systems and Technologies of Information, Control and Communication \(INSTICC\).](#)

[PRAT, N. \(2006\). A Goal-based Approach to Semantic Web Services. Dans: *Proceedings of the 5th French Affiliated AIM Pre-ICIS Workshop: A Management Perspective on Web Services*. Milwaukee: UWM \(University of Wisconsin at Milwaukee\), pp. 26-32.](#)

[HEVNER, A.R., PRAT, N., COMYN-WATTIAU, I. et AKOKA, J. \(2018\). A Pragmatic Approach for Identifying and Managing Design Science Research Goals and Evaluation Criteria. Dans: : AIS SIGPRAG 6th Pre-ICIS Workshop "Practice-based Design and Innovation of Digital Artifacts". San Francisco: Association for Information Systems \(AIS\), pp. 1-15.](#)

[RATSIMANOHATRA, A., PRAT, N. et SCHADER, M. \(2006\). A Topic Maps-based Architecture for Mobile knowledge Management. Dans: *Proceedings of the IADIS International Conference WWW/Internet 2006*. Murcia: IADIS, pp. 266-271.](#)

[PRAT, N. \(1999\). Aide au processus de BPR : Une approche fondée sur le raisonnement par cas. Dans: *4ème Colloque de l'AIM \(AIM 1999\)*. Cergy Pontoise: ESSEC Business School, pp. 211-227.](#)

[PRAT, N. et ZACKLAD, M. \(2006\). Analyse des dépendances entre fragments documentaires pour le management des communautés d'action médiatisées. Dans: *11ème Colloque de l'AIM \(AIM 2006\)*. Luxembourg: Association Information et Management \(AIM\), pp. 1-17.](#)

[PRAT, N. et ZACKLAD, M. \(2006\). Analysing Dependencies between Documentary Fragments for the Management of Mediated Communities of Action. Dans: *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. 386-401.](#)

[PRAT, N. \(2000\). Applying Case-based Reasoning in a Design Environment: Issues and Lessons Learned. Dans: *Machine Learning in Design Workshop \(MLinD 2000\), 6th International Conference on Artificial Intelligence in Design \(AID 2000\)*. Worcester Polytechnic Institute, pp. 33-41.](#)

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

[PRAT, N. \(2001\). Automating Knowledge Indexing and Retrieval in Soft Domains. Dans: *Second European Conference on Knowledge Management \(ECKM 2001\) Proceedings*. MCIL, pp. 475-486.](#)

[PRAT, N. \(2018\). Blockchain Analytics: A Descriptive Review. Dans: *Proceedings of the AIM Pre-ICIS 2018 "Convergence des TI"*. San Francisco: Association Information et Management \(AIM\), pp. 1-10.](#)

[RAMSAMY-PRAT, P. et PRAT, N. \(2002\). Contribution of the Theories of Individual Learning to an Integrated Knowledge Management Framework: Application to IT-supported Knowledge Management. Dans: *3rd European Conference on Knowledge Management \(ECKM 2002\)*. Dublin: MCIL, pp. 563-574.](#)

[AKOKA, J., COMYN-WATTIAU, I. et PRAT, N. \(2001\). Dimension Hierarchies Design from UML Generalizations and Aggregations. Dans: *20th International Conference on Conceptual Modeling \(ER 2001\): Conceptual Modeling-ER 2001*. Berlin: Springer, pp. 442-455.](#)

[PRAT, N. et MADNICK, S. \(2007\). Evaluating and Aggregating Data Believability across Quality Sub-](#)

[dimensions and Data Lineage. Dans: *Proceedings of the 17th International Workshop on Information Technologies and Systems \(WITS 2007\)*. Montreal: Financial Management Association \(FMA\), pp. 170-176.](#)

[AKOKA, J., COMYN-WATTIAU, I., PRAT, N. et STOREY, V.C. \(2017\). Evaluating Knowledge Types in Design Science Research: An Integrated Framework. Dans: *Designing the Digital Transformation. 12th International Conference on Design Science Research in Information Systems and Technology \(DESRIST 2017\) Proceedings*. Karlsruhe: Springer International Publishing, pp. 201-217.](#)

[PRAT, N. \(2010\). Evaluating the impact of different case-based teaching approaches on students' implication and learning - an empirical study in an IS/IT management course. Dans: *15ème Colloque de l'AIM \(AIM 2010\)*. La Rochelle: Association Information et Management \(AIM\), pp. 1-11.](#)

[THIELE, O., KNAPP, H., SCHADER, M. et PRAT, N. \(2007\). MOBILEAUDIT - A Tool for Contextual Knowledge Management. Dans: *Proceedings of the Winsys 2007 Conference: International Conference on Wireless Information Networks and Systems*. Barcelona: Institute for Systems and Technologies of Information, Control and Communication \(INSTICC\), pp. 232-237.](#)

[PRAT, N., MEGDICHE, I. et AKOKA, J. \(2012\). Multidimensional Models Meet the Semantic Web: Defining and Reasoning on OWL-DL Ontologies for OLAP. Dans: *15th International Workshop on Data Warehousing and OLAP \(DOLAP 2012\)*. Maui, Hawaii: Association for Computing Machinery \(ACM\), pp. 17-24.](#)

[PRAT, N. et SI-SAID CHERFI, S. \(2003\). Multidimensional Schemas Quality Assessment. Dans: *Information Systems for a Connected Society \(CAISE'03 Workshops\)*. Klagenfurt/Velden: University of Maribor Press \(Slovenia\), pp. 341-352.](#)

[SANGUPAMBA MWILU, O., PRAT, N. et COMYN-WATTIAU, I. \(2014\). Business Intelligence and Big Data in the Cloud: Opportunities for Design-Science Researchers. Dans: *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.](#)

[AKOKA, J., COMYN-WATTIAU, I. et PRAT, N. \(2017\). A four V's design approach of NoSQL graph databases. Dans: *Advances in Conceptual Modeling - Proceedings of ER 2017 Workshops, 6th International Workshop on Modeling and Management of Big Data \(MoBiD 2017\)*. Valencia: Springer, pp. 58-68.](#)

[PRAT, N., COMYN-WATTIAU, I. et AKOKA, J. \(2010\). Representation of Aggregation Knowledge in OLAP Systems. Dans: *18th European Conference on Information Systems \(ECIS 2010\)*. Pretoria: University of Pretoria, pp. 1-12.](#)

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

[AKOKA, J., COMYN-WATTIAU, I. et PRAT, N. \(2016\). The Structure of DSR Knowledge as](#)

[Reflected by DESRIST: A Citation Analysis. Dans: *11th International Conference on Design Science Research in Information Systems & Technology \(DESRIST 2016\)*. St. John: Springer, pp. 177-185.](#)

[PRAT, N. \(1997\). Goal formalisation and classification for requirements engineering. Dans: *Proc. of the 3rd International Workshop on Requirements Engineering : Foundations of Software Quality \(REFSQ'97\)*. Barcelona: Presses universitaires Namur.](#)

[AKOKA, J., COMYN-WATTIAU, I., DU MOUZA, C. et PRAT, N. \(2019\). Design science research for the humanities – The case of prosopography. Dans: *14th International Conference on Design Science Research in Information Systems and Technology \(DESRIST 2019\)*. Worcester, MA: Springer International Publishing, pp. 239-253.](#)

[PRAT, N. \(2021\). What Are They Talking about? Relation Extraction from News to Identify Research Directions in Emerging Technologies. Dans: *54th Hawaii International Conference on System Sciences \(HICSS-54\)*. Online: IEEE Computer Society, pp. 5449-5458.](#)

[AKOKA, J., WATTIAU, I., DU MOUZA, C. et PRAT, N. \(2021\). Mapping Multidimensional Schemas to Property Graph Models. Dans: *Advances in Conceptual Modeling - ER 2021 Workshop Proceedings - Conceptual Modeling for NoSQL Data Stores \(CoMoNoS\)*. St John's: Springer, pp. 3-14.](#)

[PRAT, N., AKOKA, J., WATTIAU, I. et STOREY, V.C. \(2022\). A Granular View of Knowledge Development in Design Science Research. Dans: *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.](#)

[AKOKA, J., WATTIAU, I., PRAT, N. et STOREY, V.C. \(2023\). The journey of conceptual modeling: Paths from the past to present with trajectories for the future. Dans: *CEUR Workshop Proceedings \(CEUR-WS.org\)*. CEUR-WS.org, pp. 1-21.](#)

[PRAT, N. \(2023\). The Impact of Generative AI on Business Intelligence. Dans: *International Conference on Information Systems \(ICIS 2023\) Rising like a Phoenix: Emerging from the Pandemic and Reshaping Human Endeavors with Digital Technologies*. Hyderabad: Association for Information Systems \(AIS\).](#)

[PRAT, N. et OLOGEANU-TADDEI, R. \(2024\). An Ontology of Environmental Sustainability for Design Science Research Artifacts. Dans: *Proceedings of SIGGreen Pre-ICIS Workshop, 45th International Conference on Information Systems \(ICIS\)*. Bangkok: Association for Information Systems \(AIS\).](#)

[PRAT, N., LALOR, J.P. et ABBASI, A. \(2025\). GALEA – Leveraging Generative Agents in Artifact Evaluation. Dans: *Local Solutions for Global Challenges \(DESRIST 2025\)*. Cham: Springer Nature Switzerland, pp. 83-98.](#)

ARTICLES OU VIDÉOS DE VULGARISATION

[PRAT, N. \(2018\). Intelligence artificielle : 3 raisons de vous y intéresser. *Courrier Cadres*.](#)

[PRAT, N. \(2018\). Aprovechar la revolución de la IA en la analítica de datos. *Mundo Empresarial*.](#)

[PRAT, N. \(2018\). Fonctionnement, transactions, enjeux: tout ce qu'il faut savoir sur la blockchain, vidéo ESSEC-Challenges. *Challenges*.](#)

CHAPITRES

[PRAT, N. \(2011\). A Hierarchical Model for Knowledge Management. Dans: SCHWARTZ D. \(ed.\). *Encyclopedia of Knowledge Management*. 2 ed. Idea Group Reference, pp. 376-388.](#)

[PRAT, N. \(2006\). A Hierarchical Model for Knowledge Management. Dans: SCHWARTZ D. \(ed.\). *Encyclopedia of Knowledge Management*. 1st ed. Idea Group Reference, pp. 211-220.](#)

[PRAT, N. \(2014\). Management des systèmes d'information. Dans: DUFOUR B. \(ed.\). *MBA. L'essentiel du management par les meilleurs professeurs*. 3 ed. Eyrolles, pp. 321 – 341.](#)

[PRAT, N. \(2000\). STEP PC: A Generic Tool for Design Knowledge Capture and Reuse. Dans: ROY R. \(ed.\). *Industrial Knowledge Management: A Micro-level Approach*. 1st ed. Springer, pp. 317-334.](#)

[ZAMFIROIU, M. et PRAT, N. \(2001\). Traçabilité du processus de conception des systèmes d'information. Dans: CAUVET C., ROSENTHAL-SABROUX C. eds. *Ingénierie des systèmes d'information*. 1st ed. Hermès Sciences, Lavoisier, pp. 245-276.](#)

[PRAT, N. \(2016\). Modeling and Preparing Data in Self-Service Business Intelligence. Dans: COMYN-WATTIAU I., DU MOUZA C., PRAT N. eds. *Ingénierie et management des systèmes d'information - Mélanges en l'honneur de Jacky Akoka*. 1st ed. Cépaduès Éditions, pp. 5-18.](#)

DIRECTION D'OUVRAGE

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

ARTICLES

[PRAT, N. \(2012\). Teaching Information Systems with Cases: An Exploratory Study. *Journal of Computer Information Systems*, 52\(3\), pp. 71-81.](#)

[SANGUPAMBA MWILU, O., WATTIAU, I. et 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.](#)

[AKOKA, J. et PRAT, N. \(1997\). Modélisation logique des données dans les systèmes multidimensionnels d'aide à la décision: la méthode MAP. *Journal of Decision Systems*, 6\(2\), pp. 95-115.](#)

[PRAT, N., WATTIAU, I. et AKOKA, J. \(2015\). A Taxonomy of Evaluation Methods for Information Systems Artifacts. *Journal of Management Information Systems*, 32\(3\), pp. 229-267.](#)

[PRAT, N., AKOKA, J. et COMYN-WATTIAU, I. \(2006\). A UML-based Data Warehouse Design Method. *Decision Support Systems*, 42\(3\), pp. 1449-1473.](#)

[PRAT, N., AKOKA, J. et WATTIAU, I. \(2012\). An MDA Approach to Knowledge Engineering. *Expert Systems with Applications*, 39\(12\), pp. 10420-10437.](#)

[PRAT, N., WATTIAU, I. et 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.](#)

[PRAT, N. \(2019\). Augmented analytics. *Business and Information Systems Engineering*, 61\(3\), pp. 375-380.](#)

[AKOKA, J., WATTIAU, I., PRAT, N. et STOREY, V.C. \(2023\). Knowledge contributions in design science research: Paths of knowledge types. *Decision Support Systems*, 166, pp. 113898.](#)

[SANGUPAMBA MWILU, O., PRAT, N. et 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. et 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., WATTIAU, I., PRAT, N. et STOREY, V.C. \(2025\). Data and knowledge engineering: Insights from forty years of publication. *Data and Knowledge Engineering*, 160\(102492\).](#)

[KRISHNAN, R., LALOR, J.P., PRAT, N. et ABBASI, A. \(2025\). From Policy to Practice: Research Directions for Trustworthy and Responsible Artificial Intelligence “By Design”. *IEEE Intelligent Systems*, 40\(5\), pp. 45-51.](#)

HDR

[PRAT, N. \(2012\). Contribution to the design of Management support systems, Accreditation to supervise research, University of Paris-Dauphine. Paris: France.](#)

DOCUMENTS DE TRAVAIL

[PRAT, N. \(1996\). *Using machine learning techniques to improve information systems development methods.*](#)

[PRAT, N., COMYN-WATTIAU, I. et AKOKA, J. \(2009\). *Combining Objects with Rules to Represent Aggregation Knowledge in Data Warehouse and OLAP Systems.* DR-09014, ESSEC Business School.](#)

[AKOKA, J., COMYN-WATTIAU, I. et PRAT, N. \(2001\). *From UML to ROLAP Multidimensional Databases Using a Pivot Model.* DR-01021, ESSEC Business School.](#)

COMMUNICATIONS DANS UNE CONFÉRENCE

[AKOKA, J., WATTIAU, I., PRAT, N. et STOREY, V.C. \(2024\). *La modélisation conceptuelle - Passé, présent et futur.* Dans: *42ème Edition du Congrès INFORSID 2024.* Nancy: INFormatique des ORganisations et Systèmes d'Information et de Décision. Nancy.](#)

ACTIVITÉS DE RECHERCHE

Organisation d'une conférence ou d'un séminaire

2008 - 2008: Local arrangements chair, 18th Workshop on Information Technologies and Systems (WITS 2008), Paris (France)

Participation au comité scientifique d'une conférence ou reviewer pour une conférence

2005 - 2005: Membre de comités de programme - International Workshop on Quality of Information Systems (QoIS2005) in conjunction with the 24th International Conference on Conceptual Modeling (ER2005), Klagenfurt, (Autriche)

2004 - 2004: 3è Colloque Pre-ICIS de l'AIM (Association Information et Management), Washington D.C (États-Unis)

2004 - 2004: Membre de comités de programme, 9è colloque de l'AIM, INT, Evry, (France)

2003 - 2003: Membre du comité de programme : Decision Systems Engineering Workshop (DSE'03) in conjunction with the 15th Conference on Advanced Information Systems Engineering (CAiSE'03),Klagenfurt/Velden (Autriche)

2002 - 2002: Membre du comité de programme, 1er Colloque Pre-ICIS de l'AIM, Barcelone (Espagne)

Membre d'un comité de lecture

2013 - Présent: Membre du comité de lecture - Journal of Database Management

2022 - Présent: Membre du comité de lecture - Systèmes d'Information et management

ACTIVITÉS PROFESSIONNELLES

Consulting

2003 - 2003:

Expert auprès du Réseau National de recherche et d'innovation en Technologies Logicielles (RNTL), créé par les Ministères de l'Industrie et de la Recherche.