

# Leopoldo BERTOSI

Professeur

Académie : Transformation

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## Formation

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1988      Doctorat en mathématiques, Pontificia Universidad Catolica, Chili

## Expérience Professionnelle

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### Positions académiques principales

Depuis 2022      Professeur, SKEMA Business School, Canada

## Publications

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### Articles académiques revus

BERTOSI, L. et MILANI, M. (2023). Extending sticky-Datalog via finite-position selection functions: Tractability, algorithms, and optimization. *Enterprise Information Systems*, 114, pp. 102156.

ARENAS, M., BARCELO, P., BERTOSI, L. et MONET, M. (2023). On the Complexity of SHAP-Score-Based Explanations: Tractability via Knowledge Compilation and Non-Approximability Results. *Journal of Machine Learning Research*, 24(63), pp. 1-58.

BERTOSI, L., KIMELFELD, B., LIVSHITS, E. et MONET, M. (2023). The Shapley Value in Database Management. *ACM SIGMOD Record*, 52(2), pp. 6-17.

BERTOSI, L. (2023). Declarative Approaches to Counterfactual Explanations for Classification. *Theory and Practice of Logic Programming*, 23(3), pp. 559-593.

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BERTOSI, L., LIVSHITS, E., KIMELFELD, B. et SEBAG, M. (2021). Query Games in Databases. *ACM SIGMOD Record*, 50(1), pp. 78-85.

BERTOSI, L. (2021). Specifying and Computing Causes for Query Answers in Databases via Database Repairs and Repair Programs. *Knowledge and Information Systems*, 63, pp. 199-231.

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BERTOSI, L. et SALIMI, B. (2017). Causes for Query Answers from Databases: Datalog Abduction, View-Updates, and Integrity Constraints. *International Journal of Approximate Reasoning*, 90, pp. 226-252.

BAHMANI, Z., BERTOSSI, L. et VASILOGLOU, N. (2017). ERBlox: Combining matching dependencies with machine learning for entity resolution. *International Journal of Approximate Reasoning*, 83, pp. 118-141.

BERTOSSI, L. et BRAVO, L. (2017). Consistency and Trust in Peer Data Exchange Systems. *Theory and Practice of Logic Programming*, 17(2), pp. 148-204.

BERTOSSI, L. et SALIMI, B. (2017). From Causes for Database Queries to Repairs and Model- Based Diagnosis and Back. *Theory of Computing Systems*, 61(1), pp. 191-232.

BERTOSSI, L. et LI, L. (2013). Achieving Data Privacy through Secrecy Views and Null- Based Virtual Updates. *IEEE Transactions on Knowledge and Data Engineering*, 25(5), pp. 987-1000.

BERTOSSI, L., RODRÍGUEZ, M.A. et CANIUPÁN, M. (2013). Consistent Query Answering under Spatial Semantic Constraints. *Information Systems*, 38(2), pp. 244-263.

ANDREA RODRÍGUEZ, M., BERTOSSI, L. et CANIUPÁN, M. (2013). Consistent query answering under spatial semantic constraints. *Information Systems*, 38(2), pp. 244-263.

BERTOSSI, L., KOLAH, S. et LAKSHMANAN, L.V.S. (2013). Data Cleaning and Query Answering with Matching Dependencies and Matching Functions. *Theory of Computing Systems*, 52(3), pp. 441-482.

BERTOSSI, L., GARDEZI, J. et KIRINGA, L. (2012). Matching Dependencies: Semantics and Query Answering. *Frontiers of Computer Science*, 6, pp. 2478-292.

BERTOSSI, L., BRAVO, L., FRANCONI, E. et LOPATENKO, A. (2008). The complexity and approximation of fixing numerical attributes in databases under integrity constraints. *Information Systems*, 33(4-5), pp. 407-434.

### **Ouvrages et édition d'ouvrages**

BERTOSSI, L. (2011). *Database Repairing and Consistent Query Answering*. Springer, 105 pages.

BERTOSSI, L., HUNTER, A. et SCHAUB, T. (2005). *Inconsistency Tolerance*. Springer, 300 pages.

### **Chapitres d'ouvrage**

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### **Articles académiques non revus**

BERTOSSI, L. et CANIUPÁN, M. (2010). The Consistency Extractor System: Answer Set Programs for Consistent Query Answering in Databases. *Data & Knowledge Engineering*, 69(6), pp. 545-572.