

Daniele Theseider Dupré

Curriculum vitae

PERSONAL DATA

Daniele Theseider Dupré was born in Italy. His surname “Theseider Dupré” has French origin, which is only apparent in the second part.

BIO AND EDUCATION

Daniele Theseider Dupré received the degree in Computer Science *cum laude* from the University of Torino, Italy, in 1988 and the Ph.D. degree in Computer Science from the same university in 1994.

He participated in several projects including:

- "Vehicle Model-Based Diagnosis" (VMBD, 1996-99), in the 4th framework of the European Commission, where model-based diagnosis techniques have been applied to automotive systems.
- "Intelligent Monitoring, Diagnostics and Maintenance System in Flexible Production" (INTELL-DIAG, 2000-2003), in the 5th framework of the European Commission, where model-based diagnosis techniques have been applied to automated production systems. For this project he was the Principal Investigator for Università del Piemonte Orientale.
- "Development and verification of logic-based multiagent systems" (national project, 2003-05), with the goal of modeling and specifying agents and multiagent systems, and including application to controlling complex systems in case of failure.
- "Specification and verification of agent interaction protocols" (national project, 2005-07), including applications for verifying and diagnosing Web Services.
- ICT4LAW (Regione Piemonte, 2009-13), contributing to research on compliance verification of business processes to norms and business rules.
- GINSENG (Compagnia di San Paolo (2013-15), contributing to research on verifying conformance of execution traces to clinical guidelines.

He was program co-chair of the 12th International Workshop on Principles of Diagnosis (2001) and member of the program committee of several international events such as AAAI, ECAI, the Int. Workshop on Principles of Diagnosis, Safeprocess.

He has been member of PhD committees at KU Leuven (Belgium) and Université Rennes 1 (France).

He has been Contact Person, for the Università del Piemonte Orientale, of the European Network of Excellence MONET (Model-Based Systems ad Qualitative Reasoning).

He has been invited speaker at the 2nd International Workshop on Practical Applications of Agents and Multi-Agent Systems (IWPAAMS 2003), Valladolid (Spagna).

He is author of several papers on international journals and conferences, including: Artificial Intelligence Journal, Journal of Artificial Intelligence Research, IEEE Transactions on Data and Knowledge Engineering, Theory and Practice of Logic Programming, Journal of Logic and Computation, ACM Transactions on Interactive Intelligent Systems, ACM Computing Surveys, AI Communications, International Joint Conference on Artificial Intelligence, European Conference on Artificial Intelligence, International Conference on Principles of Knowledge Representation and Reasoning.

UNIVERSITY CAREER

2001-	Associate Professor, Università del Piemonte Orientale
1998-2001	Researcher, Università del Piemonte Orientale
1993-1998	Researcher, Università di Torino

UNIVERSITY POSITIONS

2015-	Member of the Research Committee, DISIT, Università del Piemonte Orientale
2001-	Membro of the Education Committee for CS Courses, Università del Piemonte Orientale

SCIENTIFIC POSITIONS

MAIN FIELDS OF INTEREST

1. Abductive and Diagnostic Reasoning
2. Temporal Reasoning
3. Nonmonotonic Reasoning
4. Semantic Web, Ontology Reasoning
5. Answer Set Programming
6. Modelling and analysis of Business Processes and e-Health processes

CURRENT ISSUES OF RESEARCH

1. Integration of ontology reasoning and Answer Set Programming

Several ways of combining knowledge representation and reasoning (including defeasible reasoning) in description logics and Answer Set Programming.

2. Knowledge Representation and Reasoning for Process Analysis

Defining, studying and experimenting methodologies for using Answer Set Programming, ontology reasoning and their combinations, for process modeling and analysis; in particular, compliance analysis of processes (such as business processes) with norms, and analysis of conformance, including temporal conformance, of execution traces with respect to process models, with specific interest for clinical guidelines.

CURRENT FUNDED PROJECTS

PROGRAMME	FUNDED PROJECT
INDAM – GNCS 2016	Ragionamento Defeasible nelle Logiche Descrittive

TOP FIVE PAPERS

1. L. Console, D. Theseider Dupré, P. Torasso, On the Relationship between Abduction and Deduction. *Journal of Logic and Computation*, Vol. 1, N. 5, Oxford, 1991.
2. V. Brusoni, L. Console, P. Terenziani, D. Theseider Dupré, A spectrum of definitions for temporal model-based diagnosis. *Artificial Intelligence Journal*, Elsevier, Amsterdam. Vol. 102, N.1 1998, pp 39-79.
3. M. Denecker, D. Theseider Dupré, K. Van Belleghem, An Inductive Definitions Approach to Ramifications. *Electronic Transactions on Artificial Intelligence* Vol. 2, 1998, pp. 25-67.
4. L. Giordano, A. Martelli, M. Spiotta, D. Theseider Dupré. Business process verification with constraint temporal answer set programming. *Theory and Practice of Logic Programming* 13(4-5): 641-655, Cambridge, 2013.
5. Matteo Spiotta, Paolo Terenziani, Daniele Theseider Dupré. Temporal Conformance Analysis and Explanation of Clinical Guidelines Execution: An Answer Set Programming Approach. *IEEE Trans. Knowl. Data Eng.* 29(11): 2567-2580 (2017).

AWARDS

1. GULP prize for best master theses on logic programming and its applications, 1989.
2. Best paper prize, 11th International Conference on Expert Systems and their Applications, Avignon, 1991 (with L. Console and L. Portinale).