

Daniela Tiscornia

Curriculum vitae et studiorum

Daniela Tiscornia holds a degree in law and is Director of Research at the Institute of Legal Information Theory and Techniques (ITTIG) a public research institution of the Italian National Research Council (CNR), devoted to the application of information and communication technology to the areas of law and of legal language. She has been working in the field of legal information processing, legal language analysis and in the application of AI techniques to law. Her current research interests deal with the application of Semantic Web methodologies and tools to the legal domain and the development of ontology-based models of legal knowledge.

She is author of many publications and scientific papers in the field.

Current positions and research activities:

- Scientific coordinator of the ITTIG-CNR Research Programme “*Legal ontologies and Legal Language Processing*”.
- Member of the *Scientific Committee of the Institute of Legal Information Theory and Techniques*
- Member of the Editorial Board of the International Journal *Artificial Intelligence and Law*, Amsterdam, Kluwer
- Member of the Editorial Board of the International Review: *Informatica e Diritto*, Napoli, ESI
- Experts evaluator of Italian National Projects PRIN (Progetti di Ricerca di Interesse Nazionale), funded by the Italian Ministry of University and Research.
- *Scientific coordinator of national and European projects* in the field of eGovernment, e-Participation, eContent, lexical ontologies building, ontology engineering, multilingual information services, business processes modelling:
 - *JurWordNet*(CNR 2000-2004)
 - *Lois* (Lexical Ontologies for Legal Information Sharing, *eContent* 2002-2004)
 - *Dalos* (Drafting Legislation with Ontology-based Support, *eParticipation* 2007-2008)
 - *Logos* (CNR 2007)
 - *ePSInet* (eContent 2002)
 - *Norme in Rete* (Italian Ministry for Technological Innovation 2000-2002)
 - Eurovoc studies: *Mapping multilingual thesauri* (OPOCE Tender 2006)
 - *Mapping ICT Rules and Public Administration Regulations* (promoted by Italian Governmental Authority for Informatics in the Public Sector (CNIPA 2007)
 - *ICT4Law* (Converging Technologies, project of the Regione Piemonte, 2008-2011)

▪ *Conferences organization and scientific initiatives:*

- Local Co-chair of *DEON2010*. Ninth International Workshop on Deontic Logic in Computer Science, EUI, Law Department, San Domenico di Fiesole (Florence), Florence, July 2010
- Member of the Program committee and Session chair of the international Conference *Law via the Internet*, Florence, 2008.
- Co-chair of the Workshop *Approaches to legal ontologies*, Florence 2008. EUI, Law Department, San Domenico di Fiesole (Florence)
- Co-chair of the international Conference, *Jurix 2008*, Florence.
- Member of the Program and organisation committee of the Workshop on *Computable Models of the Law*, 2007
- Member of the Program and organisation committee: *Approaching the Multilanguage Complexity of European Law: Methodologies in Comparison*. EUI, Law Department, San Domenico di Fiesole (Florence), 2006.

▪ *Member of the Conference Committee of:*

- *Legislative XML Workshop*, European University Institute, Fiesole, Florence, 2006-07-08-09
- *LOAIT*, workshop on *Legal Ontologies and Artificial Intelligence Techniques*, in conjunction with ICAIL, International Conference on Artificial Intelligence and Law, 2001, 2003, 2005, 2007, 2009.
- *LOAIT*, workshop on *Legal Ontologies and Artificial Intelligence Techniques*, in conjunction with DEON 2010, European University Institute, Fiesole, Florence, July 2010
- *AICOL 09, AI Approaches to the Complexity of Legal Systems: Multilingual Ontologies, Multiagent Systems, Distributed Networks*, September, 2009 in Beijing, in conjunction with the 24th World Congress of Philosophy of Law and Social Philosophy (XXIV IVR Congress)
- *Jurix 2009 Conference*, Rotterdam, NL
- *II ° AICOL 09*, in conjunction with *Jurix 2009 Conference*, Rotterdam, NL
- *Legal Texts Processing*, workshop in conjunction with the International Conference *Jurix 2008*, Florence, Italy
- *Legal Texts Processing*, workshop in conjunction with the International Conference Linguistic Resources Evaluation, LREC 2008, Marrakesh, and LREC 2010, Malta

Recent Publications

• **Books and chapters in books:**

Daniela Tiscornia, *Il diritto nei modelli dell'intelligenza artificiale*, Bologna, Clueb, 1996, pp.324

Daniela Tiscornia, *Intelligenza artificiale e diritto* in R.Nannucci (ed.) *Lineamenti di Informatica giuridica*, Napoli, Edizioni Scientifiche Italiane, 2002

D. Tiscornia et alii, *A Constructive Framework for Legal Ontologies*, in R Benjamins, J Breuker, P

Casanovas, A Gangemi (eds.): *Legal Ontologies and the Semantic Web*, Springer, 2005.

The Multilanguage Complexity of European Law: Methodologies in Comparison, Proceedings of the Conference "Approaching the Multilanguage Complexity of European Law: Methodologies in Comparison" (European University Institute of Florence, 17th November 2006), Firenze, European Press Academic Publishing, 2007

Tiscornia et alii, *Building semantic resources for legislative drafting: the DALOS Project*, in: P. Casanovas, G. Sartor, R. Rubino, N. Casellas (eds.), *Computable Models of the Law*, (Lecture Notes in Computer Science, 4884), Berlin, Springer, 2008.

E. Francesconi, G. Sartor and D. Tiscornia (eds.), *Legal Knowledge and Information Systems* Proceedings of "JURIX 2008: The Twenty-First Annual Conference", Florence (Italy), 10-13 December 2008, X+219 pp. Amsterdam, IOS Press, 2008

D. Tiscornia, *Il linguaggio giuridico nella prospettiva computazionale*, in, J. Visconti (ed.), *Lingua e diritto: livelli di analisi*, LED, Edizioni Universitarie di Lettera, lingue e diritto, Genova, 2010, in press.

D. Tiscornia and M.T. Sagri, *Innovative approaches to legal information: from terminology to content*, in A. Santosuosso (ed.), *Le Scienze biomediche ed il Diritto*, IBIS, Pavia, 2010

D. Tiscornia, *An ontology-based approach to the multilingual complexity of law*, in M. Paquot and S.b Granger (eds.), *E_lexicography*, Cahiers du Cental v, Publication of the Université catholique de Louvain, Louvain la Neuve, 2010, in press

D. Tiscornia et alii, *When a FrameNet-style knowledge description meets an ontological characterization of Fundamental Legal Concepts*, in (Ajani G., Casanovas P., Pagallo U. and Sartor G. (eds.), *AI Approaches to the Complexity of Legal Systems*, LNAI, Springer, Berlin 2010, in press.

- **Recent articles in Journals and Conference papers:**

Daniela Tiscornia, *Jur-Wordnet, a Source of Metadata for Content Description in Legal Information*, Workshop on "Legal Ontologies & Web based legal information management", in Proceedings of the International Conference of Artificial Intelligence and Law (ICAAIL 2003), Edinburgh, June 24, ACM Press, 2003.

D. Tiscornia et alii, *A Domain Ontology: Italian Crime Ontology*, Workshop on "Legal Ontologies & Web based legal information management", in Proceedings of the International Conference of Artificial Intelligence and Law (ICAAIL 2003), Edinburgh, June 24, ACM, 2003.

D. Tiscornia et alii, *Some ontological tools to support legal regulatory compliance, with a case study*, in Workshop on Regulatory ontologies and the modelling of complaint regulations, WORM CORE 2003, OTM Federate Conference (Catania 2003), Springer LNCS, 2003.

Daniela Tiscornia and Lorian Serroti, *The exploitation of Public Sector Information*, in Atti dell Convegno Eastern Europe e|GOV Day, 11 marzo 2004, Springer Verlag, 2004.

D. Tiscornia et alii, *An Ontology model for Representing "Bundle-of-rights*, International Federated Conference, The 2nd Workshop on Regulatory Ontologies (WORM), Lanarca, Cipro, 2004.

D. Tiscornia et alii, *The LOIS Project*, in: Proceedings della Conferenza Internazionale LERC (Linguistic Resources Evaluation Conference), Genova, 23-27 maggio 2006

D. Tiscornia et alii, *The Structuring of Legal Knowledge in LOIS*, in Journal of Artificial Intelligence and Law, special Issue on Legal Ontologies (Biasiotti, Lehman, Francesconi and Sagri eds), 2006

D. Tiscornia et alii, *A linguistic-ontological support for multilingual legislative drafting: the DALOS Project*, in: P. Casanovas, M.A. Biasiotti, E. Francesconi, M. T. Sagri (eds), Proceedings of

"LOAIT '07 - II Workshop on Legal Ontologies and Artificial Intelligence Techniques", 2007

Daniela Tiscornia, and Manola Cherubini, *An ontology-based model of procedural norms and regulated procedures*, CNR Technical Report, 1/2010, 14 pp, Firenze, Ittig-Cnr, 2010

Daniela Tiscornia et al., *An Approach towards Better Legislation to Improve Law Accessibility and Understanding* in: Proceedings of the IX International Conference "Law via the Internet", Florence (Italy), 30-31 October 2008 Firenze, European Press Academic Publishing, 2009

Daniela Tiscornia et al, *Towards a FrameNet Resource for the Legal Domain*, in: N. Casellas, E. Francesconi, R. Hoekstra, S. Montemagni (a cura di), Proceedings of the "LOAIT 2009 - 3rd Workshop on Legal Ontologies and Artificial Intelligence Techniques" joint with "2nd Workshop on Semantic Processing of Legal Text" (Barcelona, 8th June 2009) Barcelona, Huygens Editorial, 2009

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