Presentation of
ITTIG-CNR

Institute of Legal Information Theory and Techniques
(ITTIG – CNR) Florence, Italy

Bologna, October 15th, 2012
ITTTIG-CNR
Institute of Legal Information Theory and Techniques

- Born in 1968. Located in Florence
- It belongs to the Italian National Research Council

MISSION:
Research and development of technologies in the field of ICT applied to legal information and services for the Public Administration

Staff:
- Jurists/legal documentalists
- Information scientists
- Technical support
- Administrative staff
Areas of Interest

- Legal Information Management
- ICT for legal information  
  (legislation, case law, legal doctrine)
- Legal Knowledge Modelling (Ontologies in the legal domain)
- AI techniques for legal reasoning and information extraction
- E-learning in the field of law
- Law and e-government policies
- History of legal language and lexicography
Some Projects

Topics
- e-Justice
- e-Participation
- Legal Semantic Web
- Multilingual ontologies
- Surveillance and Privacy
- Consular Assistance
- Immigrants legislation
• Improve cross-border access of citizens and businesses to legal procedures
• Improve interoperability between legal authorities within the EU
• Provide an easier (digital) way to exchange legal information between EU-countries.
Semantic Web in the Legal Domain and e-Government

• URI and XML standards for Legislation and Case-law
  - NormeInRete, CEN MetaLex
  - Standard for legal document identification (URN:LEX)

• Metadata and Knowledge Representation
  - Semantic models and Legal Ontologies

• Legal Knowledge Extraction
  - Machine Learning
  - Natural Language Processing

• Main collaborations
  - Italian Parliament
  - Italian Ministry of Justice
  - Swiss Federal Chancellery
  - Courts
Tools for Legislative XML and Open Data

xmLegesEditor
(GPL license)

Structure managers

xmLegesMarker
(automatic XML conversion)

xmLegesLinker
(automatic hyperlinks)

Semantic managers

xmLegesClassifier
(Provision automatic classification)
(Machine Learning techniques)

xmLegesExtractor
(Provision argument extraction) (NLP)
Legal Language and Legal Ontologies

• Ontologies for the Legal Knowledge and Language
• Automatic knowledge extraction from legal texts
• Lexicon for legacy legal documentation
Access to legal literature: DOGI - Dottrina Giuridica database

- Bibliographic database of abstracts of articles in Italian legal periodicals (produced by ITTIG-CNR since 1970).

- **Content:**
  - Bibliographic citations,
  - **abstract** and/or summary (list of chapters),
  - classification (highly structured),
  - normative and jurisprudential references to the full text of legal sources

- **Analysis of:** Scientific contribution, summaries of cases, commentaries to statutes, conference papers, book review

- **Sources:** 250 Italian legal periodicals from 1970

- **Update:** Bimonthly
DOGI Search Modalities

- Searching by metadata
- Browse
  - List of indexed periodicals
  - Classification

From November 2004 the DoGi database is distributed by

**ITTIG**: free of charge (limit in the number of retrieved documents)

**Infoleges**: on charge
Ferrari Simone

Appunti sull'attenuante della "collaborazione" nei reati di narcotraffico
(Nota a Cass. sez. IV pen. 15 marzo 2001)
Giurisprudenza italiana, 2003, fasc. 7 (luglio), pag. 1457-1458
(Bibliografia: a pie' di pagina o nel corpo del testo)
PEN.9.35. STUPEFACENTI

La norma di cui all'art. 73 comma 7 d.p.r. 309/1990 introduce la circostanza attenuante del ravvedimento post delittuoso, prevedendo la drastica riduzione di pena dalla metà ai due terzi per la collaborazione prestata dall'agente nell'attività di repressione del traffico di droga. Conformemente al significato letterale e alla "ratio" di prevenzione del danno sociale connesso alla diffusione della droga, sulla prevista riduzione premiale della norma si è pronunciata la Corte di Cassazione nel senso che la riduzione della pena deve essere conseguenza di un'utille collaborazione, che dal reato già consumato tragga occasione per rivelazioni idonee in concreto ad evitare altri delitti. Pertanto, ai fini dell'applicazione dell'attenuante della "collaborazione", si richiede che l'imputato fornisca agli inquirenti notizie utili per sradicare l'organizzazione di traffico e spaccio di sostanze stupefacenti, non essendo sufficiente una condotta che si esaurisca nella confessione di fatti e dicircostanze marginali.
Cass. sez. IV pen. 15 marzo 2001
art. 73 comma 7 d.p.r. 9 ottobre 1990, n. 309 «--- [recupera atto via NiR]"
• Tools for improving the democratic participation of citizens in the law-making process
  - Multilingual ontology for legal drafting
  - Editor for implementing XML standards
  - Multilingual legislation tagging
• Automated recognition of individuals and/or pre-determined traits or risk factors/criteria as basis of smart surveillance systems.

• Review the actual effectiveness of surveillance systems and procedures used in Europe in preventing / reducing crime
Legislation and Administrative Procedures for Immigrants

- URI and XML for legislation
- Multiversion documents
Computer Law and Policies for e-Government

• Analysis of the Legal framework about e-Government

• Observatory on rules for Agriculture and Food
Free Access to Law Movement

- ITTIG adheres to the Free Access to Law Movement
- Promotes the principles on Free Access to Law
- Promotes Open Standards and Open Access to legal materials
- Coordinates the Observatory on Free Access to Law in Europe (EuroLII)
Some Figures

- Research Staff
  - 18 Researchers
  - 3 Post-doctoral and Research Assistants
  - 13 units of research supportive staff

Legal and IT background

ITTIG-CNR Spin-off
Collaborations

• Universities
  – Turin, Genova, Bologna, Florence, Rome, Perugia...
  – European University Institute
  – Amsterdam, Barcellona, Leiden, Praga, Evora, Londra, Sheffield, Budapest, Vienna…, Montreal, New York…

• Institutions
  – Italian Parliament, DigitPA (ex-CNIPA), Italian Ministry of Justice, Italian Prime Minister Office, OPOCE, European Commission, Tuscany Region, several Municipalities

• Tuscany Internet Area Network
• Member of the Legal Information Institutes community
• Member of the AI & Law community
• Partner of the CEN MetaLex working group on *Open XML Interchange Format for Legal and Legislative Resources*
ICAIL 2013

International Conference on Artificial Intelligence and Law
Rome, 10-14 June 2013
http://icail2013.ittig.cnr.it

• Mentoring Program for junior authors

Request Deadline: **November 12th, 2012**
send notice to Jack.G.Conrad@ThomsonReuters.com

Mentoring Program Paper Deadline: **November 19th, 2012**