CIRSFID

Monica Palmirani
CIRSFID and Faculty of Law
University of Bologna
CIRSFID

- Interdepartmental Research Centre in Legal History, Legal Philosophy and Sociology and Computer Science and Law of the University of Bologna
- Founded in 1986 by Enrico Pattaro
- Very active in European research projects, national research projects, international initiatives
- Very active in the standardisation technical committees like NormeInRete, Akoma Ntoso, CEN Metalex, OASIS
- Two Doctorates (ICT Law and Bioethics) and one Master on ICT Law of the University of Bologna
- Staff of about 70 people: professors, researchers, research associates, Ph.D. students, ICT support staff, administrative support staff
CIRSFID’s activities

Since

- **1989 - Two Doctorates**: ICT Law and Bioethics

  **ICT LAW**
  - European Projects: ALIVE, TRIAS, LEFIS, ALFEBIITE, ESTRELLA, ALIS, LEGAL-IST e SEAL, in coordination with EULISP (*European Legal Informatics Study Programme*)
  - LEFIS – *Legal Framework for the Information Society*
  - Computer Forensics initiatives: EECTF, IISFA

  **Bioethics**
  - Ethics and the legal issues connected with: genetics, nano-medicine, environment

- **2002 - Master’s course** of Legal Informatics and ICT Law at the Bologna University School of Law, in coordination with EULISP

- **2006 – Summer School in Legislative XML** – Ravenna

- **2012 – Summer School in Law and Logic** – Fiesole, EUI, Florence
CIRSFID’s areas of activity

Cirsfid is active in the following areas:

- Philosophy and Sociology of Law
- ICT LAW and Legal Informatics
- Bioethics and Law
- History of Law
Philosophy and Sociology of Law - Relationships

- IVR – Internationale Vereinigung für Rechts- und Sozialphilosophie – Prof. Yasutomo Morigiwa
- Ratio Juris, Basil Blackwell, Oxford
- Membro della IASL – International Association for the Semiotics of Law, Utrecht
- Membro di “Studii de drept romancesc”, Bucarest
- Membro dell’International Sociological Association, Oñati
- André-Jean Arnaud CNRS, Francia
- Droit et Société. Revue internationale de droit et de sociologie juridique (Paris).
- European Association e del Master for the Teaching of Legal Theory, Bruxelles
- A Treatise of Legal Philosophy and General Jurisprudence 12 vols. Springer
- Lund University
- Stockholm University
- Membro di Current Legal Theory – Tilburg University

.subscribe

Philosophy and Sociology of Law - Relationships
Philosophy of Law in America

• International Statutory Interpretation Project, Cornell University

• Member of Center for Semiotic Research in Law Government and Economics, Pennsylvania State University

• Archivios Latinoamericanos de Metodología y Filosofía del Derecho, Universidad de Carabobo, Venezuela

• Anuario de Filosofía Jurídica y Social, Valparaiso, Chile
Computer Science and Law – EU research projects

Department of Computing - Imperial College (London): Professor Marek Sergot

Dep. Of Computer Science – Liverpool University: Professor Trevor Bench-Capon

Katholieke Universiteit Leuven, Belgio – Professor Jos Dumortier

Leibniz Center for Law - University of Amsterdam: Professor Tom van Engers

Faculty of Law, University of Groningen: Professor Hanry Prakken

Università di Saragozza: Professor Fernando Galindo

Fraunhofer, Berlin: Professor Thomas Gordon

Università Autonoma di Barcelona: Professor Pompeu Casanovas

Koblenz University - Professor Maria Wimmer

CNRS CERSA, University of Paris 2: Professor Daniel Bourcier
ICT LAW and Legal Informatics in Europe

- Faculty of Law, University of Groningen: Professor Hanry Prakken
- Leibniz Center for Law - University of Amsterdam: Professor Tom van Engers
- Norwegian Research Center for Computers and Law, University of Oslo: Professor Jonh Bing
- Department of Computing - Imperial College (London): Professor Marek Sergot
- Department of Computer Science – Liverpool University: Professor Trevor Bench-Capon
- Corvinus University of Budapest – Department of Computer Science
- Fraunhofer, Berlin: Professor Thomas Gordon
- Koblenz University: Professor Maria Wimmer
- Katholieke Universiteit Leuven, Belgio: Professor Jos Dumortier
- CNRS CERSA, University of Paris 2: Professor Daniel Bourcier
- Università Autonoma di Barcelona: Professor Pompeu Casanovas
- Università di Saragozza: Professor Fernando Galindo
ICT LAW and Legal Informatics in America

• Cooperation with:
  – Stanford University, School of Law – Prof. Michael Genesereth
  – College of Computer and Information Science, Northeastern University – Prof. Carole D. Hafner
  – University of Pittsburgh, School of Law – Prof. Kevin D. Ashley
  – Cornell University, Legal Information Institute, Law School – Thomas R. Bruce
  – University of Montevideo, School of Law
Bioethics and BioLaw – Partnerships

King’s College (London) – School of Law and Centre of Medical Law and Ethics: Prof. Penney Lewis

Oxford Uehiro Centre for Practical Ethics – Oxford University: Prof. Julian Savulescu

University of Manchester – School of Law: Prof. John Harris

Observatori de Bioetica, Universitat de Barcelona: Prof.ssa Maria Casado

Stockholm Bioethics Centre - Department of Philosophy: Prof. Torbjörn Tännsjö

Faculty of Law - University of Groningen, the Netherlands: Prof. John Griffiths

Università della Sorbona di Parigi - Centre de Recherche en Epistémologie Appliquée (CREA) of École polytechnique: Prof. Michel Bitbol
Bioethics in Europe

- Oxford Uehiro Centre for Practical Ethics – Oxford University: *Professor Julian Savulescu*
- University of Manchester – School of Law: *Professor John Harris*
- King’s College (London) – School of Law and Centre of Medical Law and Ethics: *Professor Penney Lewis*
- Observatori de Bioetica, Universitat de Barcelona: *Prof.ssa Maria Casado*
- Sorbonne Paris - Centre de Recherche en Epistémologie Appliquée (CREA) of École polytechnique: *Prof. Michel Bitbol*
- Faculty of Law - University of Groningen, the Netherlands: *Professor John Griffiths*
- Stockholm Bioethics Centre - Department of Philosophy: *Professor Torbjörn Tännsjö*
Bioethics in the United States

- Hunter College of The City University of New York - Political Science Department: Prof.ssa Joan Tronto
- Boston College: Prof. Charles Baron
- Harvard School of Public Health and Department of the History of Science: Prof.ssa Sheila Jasanoff
- Stanford Center for Law and the Biosciences - Stanford University: Prof. Hank Greely
History of Law in America

- The Catholic University of America, Washington D.C - Prof. Kenneth Pennington
- Bronx University - Prof. Wolfgang P. Mueller
- Harvard School of Law - Prof. Charles Donahue
- International School of IUS Comune of ERICE
ICT and Law Group

The group includes both lawyers and experts coming from the schools engineering, mathematics, physics, business, philosophy, and information science

- It has taken part in several Italian and European projects since its inception in 1986
- Among the most recent ones are SEAL, ESTRELLA, ALIS, LEGALIST, LEFIS, and TRIAS-TELEMATICA, ALFEBIITE, and ALIVE
- The activities may be considered divided in two sectors:
  - ICT LAW
  - LEGAL INFORMATICS and LEGAL KNOWLEDGE MODELLING
  - ARTIFICIAL INTELLIGENCE & LAW
  - FORENSIC INFORMATICS
This group specialises in the legal issues connected with the development and use of new technologies and with the legal challenges posed by artificial intelligence. Its focus areas have been or are:

1. Intellectual Property Rights in the Information Society
2. Electronic signatures and documents
3. Electronic commerce
4. Privacy and data protection
5. Legal aspects involving intelligent agents and multi-agent systems
6. Expert systems
7. Security and trust in open systems
8. Virtual Organisations
9. Virtual and electronic institutions
This interdisciplinary group studies the application of informatics in law, and works on issues pertaining to organizations such as law firms, courts, and parliaments, focusing in particular on e-Government, ICT architecture, and the related legal issues. Its focus areas have been or are:

**ICT Legal Sources Modelling**
- modelling legal resources with legal XML and Semantic Web
- legal information systems applications using XML technologies & NLP
- e-Legislation, e-Parliament, and e-Participation for modelling the document management flow
- legal ontologies and reasoning
- XML legal knowledge modelling of law and judgment for legal reasoning with non-monotonic and non-deductive logic.

**e-Government**
**e-Content**: high-resolution images of rare law books from the 10th, 12th, and 13th centuries
Legal Rules Modelling and Legal Reasoning

- Active members in RuleML
  - NICTA cooperation with Brisbane branch
- Editor-in-Chief of AI&LAW
- Member of IAAL
- ICAIL International Conference on ARTIFICIAL INTELLIGENCE and LAW
- Best paper ECAI 2011
- RuleML2012 Challange Winner
- Doctoral Consortium Best paper in RuleML2012
Legal XML and Semantic Web

• **Africa**
  – Guidelines for Legislative Drafting for Pan-African Parliament
  – AKOMA NTOSO Parliament XML standard – United Nations
  – Kenya and South Africa

• **Latin America**
  – Senate of Uruguay for modelling bill lifecycle in XML
  – IABD Interamerican Bank for Development: Legal XML for all the Latin American Parliaments

• **USA**
  – LegalXML – OASIS
    • eCourt filing standard for courts
    • Transformational Government Framework
  – Stanford University – Open Gov Initiative

• **CH** Federal Chancellery of Switzerland for managing the publication of the official collection in XML

• **Official Gazzette of Italy** – XML and Semantic web annotation
eLaw and eJustice

- **ICT4LAW** in cooperation with the University of Turin for developing tools in eLegislation area
- “Fill the Gap” research project for modelling legal document and rules using XML and OWL techniques
- **Akoma Ntos o** and **LegalRuleML** XML standardisation projects in OASIS
- UN/DESA, EU Parliament, Senate of Italy cooperation for developing legal drafting tools in open source platform
- Graph visualization of the legal document
- Consultant in the European project **eCodex** in the eJustice domain
- eJustice projects at the National level with the Court of Cassation, Tribunal of Bologna and Ravenna
eGov and eHealth

- **Digital signature** techniques in the eGov online services
- Consultant of the Government Agency for ICT in the Public Administration Agenda
- **Open data** juridical evaluation: Report for the Emilia Romagna Region
- **Cloud Computing** in the Public Administration: A report for the Municipality of Ravenna
- eHealth project for managing privacy by design in the *Electronic Health Record*
- **Biobank** for medical sector
Legal digital library

- Irnerio project: 165,000 images of the medioeval era on Accursio and Irnerio work
- Mosaico project: Authenticum manuscripts annotated in XML
- Multimedia repository for archiving terrorism judiciary acts semantically annotated
LEFIS
LEgal Framework for the Information Society

- Socrates Thematic Network

- Tuning reference in the topics object of LEFIS: Juridical Thematic Network

- ELFA - European Law Faculties Association: Tuning reference in the subject Law

- 130 Universities and institutions
ICT forensics

- Exam of evidences during enforcement and court trial either from the technical viewpoint and from the legal one

- Topics include: cyber crime; methods to investigate cyber crime, focusing on requirements for collection and reporting of evidence for possible use in criminal cases

- Overview of the forensic relevance of encryption; the examination of digital evidence for clues, and the most effective way to present evidence and conclusions in a court of law; investigative tools and techniques used in computer forensics

- Data acquisition and digital evidence preservation, according to the standards required for presentation in an (Italian) trial

- Investigation on electronic mail; investigative reporting
This interdisciplinary group focuses mainly on ethics and the legal issues connected with:

• **1. Genetics;** recent developments in medical genetics, with a view to offering genetic counselling and working out the scientific, technical, ethical, and legal implications involved in applying technology

• **2. Nanomedicine;** the impact that nanotechnologies have on diagnostic, therapeutic, and regenerative medicine, paying attention to the tools and strategies for risk management and analysis

• **3. Environmental ethics;** ethics concerned with the environment, the human species, and relations among humans and environment
Conclusions

- Twenty-five years of pioneering, application-oriented and systematic activities in ICT Law and Legal informatics

- Wide experience in international research activities, with strong European participation in projects, initiatives and excellence networks

- Trustable and committed researchers