Opportunities for Joint International Doctoral Candidates in Law, Science and Technology at the University of Pittsburgh Intelligent Systems Program

Kevin Ashley
Professor of Law and Intelligent Systems
Senior Scientist, Learning Research and Development Center
Intelligent Systems Program (ISP)
University of Pittsburgh (Pitt)

- ISP: PhD degree-granting program in applying artificial intelligence (AI) in:
  - medical diagnosis, legal and ethical reasoning, knowledge representation, machine learning, intelligent tutoring, natural language generation and discourse, planning, case-based reasoning, and problem solving.
  - ISP faculty in schools of Medicine, Business, Law, Education, Information Sciences, and Arts and Sciences.
  - Strong connections to research groups in the Departments of Computer Science at Pitt (and Carnegie Mellon University), Biomedical Informatics, Linguistics, and Psychology, the Learning Research and Development Center (LRDC).

- ISP AI and Law Group research on legal modeling and legal decision-making, argument formation, legal information retrieval and intelligent tutoring systems for legal reasoning.

- Current and former group members have taught and conducted research in both computer science and law programs including the School of Law.
Short Bio: Kevin D. Ashley

Professional:
- Professor of Law, University of Pittsburgh School of Law
- Senior Scientist at the Learning Research and Development Center
- Graduate faculty member of Pitt Intelligent Systems Program
- Adjunct Professor of Computer Science.
- Co-editor in Chief, *Artificial Intelligence and Law*
- Fellow of American Association for Artificial Intelligence
- visiting scientist at the IBM Thomas J. Watson Research Center
- past President of the International Association of Artificial Intelligence and Law.

Education:
- B.A. in philosophy (magna cum laude) from Princeton University in 1973,
- J.D. (cum laude) from Harvard Law School in 1976, and
- Ph.D. in computer science in 1988 from the University of Massachusetts.

Expertise: computational modeling of legal reasoning and cyberspace legal issues

Publications: *AI and Law, Jurimetrics, ICAIL, Jurix, AAAI, ICCBR*

Grants: PI on current NSF grants on modeling legal argument and AI-supported peer review
Opportunities at ISP for LAST-JD Candidates

As Associate Partner, Pitt’s Intelligent Systems Program supports:

1. annual seminar on AI and Law at UNIBO
   -- offered by Prof. Kevin Ashley in cooperation with Prof. Monica Palmirani
   -- Scheduled for 10-14 December 2012

2. PhD theses of LAST-JD graduate students on topics related to AI and Law,
   -- supervised by Ashley

3. internships for qualified Erasmus Mundus graduate student interns
   -- supervised by Ashley
   -- hosted at ISP and the Learning Research and Development Center

4. audit Ashley’s AI and Law Seminar, ISP forums, and courses in law, computer
   and cognitive science.
Ashley supervises LAST-JD PhD theses on:

- **Artificial Intelligence and Law**
  - computer models of legal and ethical reasoning
  - computer models of case-based and analogical reasoning
  - automated extraction of information from law-related texts
  - applying AI and Law techniques to legal information retrieval, and intelligent tutoring systems in law and ethics

- **Substantive Legal Topics as related to AI and Law programs**
  - intellectual property issues
  - product liability
  - cyberspace and law issues
Ashley’s Research Lines for Internships

Current Research Lines:
1. Computational models of arguing from cases about legal rules
   - value judgments, intermediate legal concepts, hypothetical examples
2. Computer-supported argument diagramming and peer review
   - applying AI to support diagramming, peer reviewing and writing
3. Connecting computational models of legal reasoning to legal texts.
   - automating information extraction from statutory texts for comparative analysis

Proposed Research Lines:

- IARPA: Automating Legal Compliance Monitoring: Pilot Project
  - automating information extraction from case texts for prediction

- NSF: Trends, Consensus and Conflict in Information System Legal Regulation
  - automating information extraction from statutory texts for summarization
Thank you!

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Intelligent Systems Program
http://www.isp.pitt.edu/