

Call for Contributions for

Submission:

1. **Inform the Chair:** with the Title of your Contribution

2. **Submission URL:**

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=ADVCOMP+2018+Special>

Please select Track Preference as **CLawLS**

Special track

CLawLS: Computational Law and Legal Systems

Chair and Organizer

PhD Candidate, Cleyton Mário de Oliveira Rodrigues, Federal University of Pernambuco, Brazil
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along with

ADVCOMP 2018, The Twelfth International Conference on Advanced Engineering Computing and Applications in Sciences <http://www.iaria.org/conferences2018/ADVCOMP18.html>

November 18 - 22, 2018 - Athens, Greece

Computational Law is an interdisciplinary line of research that covers both the use of strategies for the representation of normative knowledge and the possibilities for the creation of automatic systems of reasoning. Although acquiring, manipulating and managing legal knowledge is a highly costly task given the enormous quantity and heterogeneity of these normative documents, the advent of legal computing is justified both by the need for systems that assist lawyers and judges in decision making as well as the need to automate the indexing and organization of legal cases in each legal area. There is also a need to democratize access to legal documents, the ability to compare different legal systems, even from different countries, as well as the very natural evolution of norms. The line of research that emerged from the intersection of the use of techniques, tools, and methodologies of the Artificial Intelligence (AI) in the legal field is also known as AI & Law.

AI & Law has provided a breakthrough in researches involving case-based reasoning, rule-based reasoning, information retrieval and, more recently, conceptual models for knowledge representation and reasoning, known as Legal Ontologies. In special, AI & Law has focused on tackling with the challenges surrounding the development of legal ontologies to assign meaning to legal provisions. Likewise, conceptual models have been widely used by legal practitioners, scholars, and the law people in a palette of situations, such as to simulate legal actions, for semantic search and indexing, and to keep up to date with the continual change of laws and regulations.

This track invites researchers to a special issue involving the management of legal knowledge and legal systems, addressing novel applications, theories, technologies, methods, systems, and tools.

The topics of interest include, but are not limited to:

- Semantic Web and Legal Ontologies
- Legal Conceptual Models
- Formal Models of Legal Reasoning
- Automated Information Extraction from Legal Documents
- Legal Expert Systems
- Application of AI to the Legal Domain
- Normative Systems and Non-monotonic Logics
- Argumentation Scheme and Case-Based Reasoning
- Data mining and Machine Learning for Legal Information Retrieval
- Big Data Applied to the Legal Domain

- Ethical Issues of AI and Law
- Knowledge Acquisition Techniques for the Legal Domain

Important Datelines

Inform the Chair: As soon as you decided to contribute

Submission; ~~August 1~~ **October 5**

Notification: ~~September 1~~ **October 20**

Registration: ~~September 15~~ **October 30**

Camera-ready: ~~September 25~~ **October 30**

Note: These deadlines are somewhat flexible, providing arrangements are made ahead of time with the chair.

Contribution Types

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaia.org]
- Presentations: slide only [slide-deck posted on www.iaia.org]
- Demos: two pages [posted on www.iaia.org]

Paper Format

- See: <http://www.iaia.org/format.html> [both LaTeX and .doc templates]
- Before submission, please check and comply with the editorial rules: <http://www.iaia.org/editorialrules.html>
- More information on camera ready preparations will be posted after the paper notifications are sent out.

Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iaiajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

Paper Submission

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Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at <http://www.iaia.org/registration.html>

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