Important deadlines:

- Submission (full paper): October 1, 2016
- Notification: December 1, 2016
- Registration: December 15, 2016
- Camera ready: January 15, 2017

Tracks:

**Trends on computation**
- Assertion-based analysis;
- Conditional transformation systems;
- Generalized learned constraints;
- Constraint propagation;
- Stable-unstable semantics;
- Abstract compilation;
- Semantic code browsing;
- Pointer analysis;
- Minimal entailment;
- Infinitary formulas;
- Static profiling of parametric resource usage;
- Rewriting optimization statements;
- Algebraic effect handlers;
- Non-ground rules;
- Resource-based answer set semantics;
- Local domain symmetry;
- Knowledge patterns;
- Knowledge representation;
- Grounded fixpoints;
- Supersafe rules;
- Qualitative spatio-temporal reasoning;
- Reasoning about truthfulness;
- Cause-effect relations;
- Higher-order logics;
- Models expansion;
- Optimal stable models;
- Intelligent instantiations;
- Answer set programming;
- Non-monotonic cause-effect relations;
- Paraconsistency;
- Active integrity constraints

**Logics**
- Reasoning logics;
- Fuzzy logics;
- Semantic logics;
- Temporal logics;
- Emotion logics;
- Ambiant logics;
- Modal logics;
- Description logics;
- Computational tree logic;
- Computational logics and constraints;
- Quantum computational logics;
- Executable computational logics;
- Monadic computational logics;
- Many-valued computational logics;
- Computability logic

**Algebras**
- Computational algebras;
- K-theories, C*-algebras, Index theory;
- Algebraic and topological K-theory;
- Geometric group theory and group C*-algebras;
- Noncommutative geometry and topology;
- Pseudodifferential operators on singular manifolds;
- Topological invariants of non-simply connected manifolds;
- Deformation quantization;
- Lambda calculus;
- Relation algebra;
- Algebras for symbolic computation;
- Constructive algebras

**Advanced computation techniques**
- Machine learning;
- Fuzzy theory/computation/logic;
- (Artificial) neuronal networks;
- Distributed artificial intelligence;
- Genetic algorithms;
- Analytic tableaux;
- Autonomous agent-based techniques;
- Knowledge-based systems and automated reasoning;
- Logical issues in knowledge representation /non-monotonic reasoning/belief;
- Dempster-Shafer theory;
- Concurrent computation and planning;
- Deduction and reasoning

**Specialized programming languages**
- Logic programming;
- Specialized computation languages;
- Real-time computation languages;
- Embedded-computing languages;
- Programming semantics;
- Content-driven programming;
- Multimedia-oriented programming;
- Context-driven programming;
- Service-oriented programming;
- Pattern-oriented programming;
- Regenerative programming;
- Progressive programming;
- Sensing-oriented programming;
- Mobile-ubiquity-oriented computing;
- Compilation issues

**Tools for distributed computation**
- Platforms for distributed computing;
- Specification and verification of programs and systems;
- Techniques for cloud computing;
- On-request resource allocation mechanisms;
- Security and privacy techniques;
- Computational benchmarking metrics, criteria and methodologies;
- Distributed debug and on-fly repairing;
- Inference of schemas, integrity constraints in computational applications;
- Real-world applications, experiments, projects