

# BRAIN 2019 overview

Click the cells for more details.

	Mon 16		Tue 17		Wed 18		
	RuleML+RR	GCAI	RuleML+RR	Dec.CAMP	GCAI	RuleML+RR	Dec.CAMP
	D1.03	D1.02	D1.03	C2.01	D1.02	D0.01	C2.01
<b>8:00</b>	Registration		Registration			Registration	
<b>9:00</b>	Opening	Opening	Registration			Keynote	
<b>9:30</b>	Keynote		Keynote	Presentations		Gualtieri	
<b>10:00</b>	Mugnier		Dumas				
<b>10:30</b>	Coffee break		Coffee break			Coffee break	
<b>11:00</b>	Session 3L + 1S		Joint session 2L / 1L+1S	Presentations	Session 3L + 1S	6 Rule Challenge papers	Presentations
<b>12:30</b>	Lunch		Lunch			Lunch	
<b>14:00</b>	Session 2L + 1S	Session 3L	Session 4L	Presentations	Session 3L	Dec.CAMP presentations	
<b>15:30</b>	Coffee break		Coffee break			Coffee break	
<b>16:00</b>	Posters		Posters + business meeting	Presentations		Posters	Presentations
<b>17:30</b>							
<b>18:30</b>	Welcome reception 18:30 - 21:00					Social dinner 18:30 - 22:30	

## Notes:

(L) regular papers: 20 min presentation + 5 min discussion

(S) short papers: 12 min presentation + 3 min discussion

Rule Challenge papers: 12 min presentation + 3 min discussion



# BRAIN 2019 schedule

(sessions, keynotes, posters only)

Search

## 16 September

RuleMLRR slot

🕒 16 Sept, 9:00 - 📍 D1.03

Opening session.

*Chair: Marco Montali*

RuleMLRR keynote (Mugnier)

🕒 16 Sept, 9:30 - 📍 D1.03

*Marie-Laure Mugnier*

*Chair: Marco Montali*

Existential Rules: a Study Through Chase Termination, FO-Rewritability and Boundedness (**abstract**).

RuleMLRR session (3L + 1S)

🕒 16 Sept, 11:00 - 📍 D1.03

**Applications and NLP**

*Chair: Marina De Vos*

*Carmine Dodaro, Giuseppe Galatà, Muhammad Kamran Khan, Marco Maratea, Ivan Porro*  
An ASP-based Solution for Operating Room Scheduling with Beds Management

*Marjolein Deryck, Theodoros Mitsikas, Sofia Almpiani, Petros Stefaneas, Panayiotis Frangos, Iakovos Ouranos, Harold Boley, Joost Vennekens*

Aligning, Interoperating, and Co-executing Air Traffic Control Rules Across PSOA RuleML and IDP

*Davide Liga, Monica Palmirani*

(short) Detecting 'Slippery Slope' and other argumentative stances of opposition using Tree Kernels in monologic discourse

*Rahul Krishnamurthy, Michael Hsiao*

EASE: Enabling Hardware Assertion Synthesis from English

RuleMLRR session (2L + 1S)

🕒 16 Sept, 14:00 - 📍 D1.03

### Combined Reasoning

Chair: Marco Maratea

*Fangfang Liu, Jia-Huai You*

Alternating Fixpoint Operator for Hybrid MKNF Knowledge Bases as an Approximator of AFT

*Marina De Vos, Sabrina Kirrane, Julian Padget, Ken Satoh*

ODRL policy modelling and compliance checking

*Marjolein Deryck, Bram Aerts, Joost Vennekens*

(short) Adding Constraint Tables to the DMN Standard: Preliminary Results

## 17 September

GCAI slot

🕒 17 Sept, 9:00 - 📍 D1.02

Opening session.

Chair: Diego Calvanese

GCAI+RuleMLRR keynote (Dumas)

🕒 17 Sept, 9:30 - 📍 D1.02

*Marlon Dumas*

Artificial Intelligence for Business Process Management: Status, Challenges, and Perspectives (**abstract**).

Chair: Marco Montali

DecCAMP session

🕒 17 Sept, 9:00 - 📍 C2.01

DecisionCAMP presentations.  
Refer to the schedule [here](#).

GCAI+RuleMLRR session (2L / 1L+1S)

🕒 17 Sept, 11:00 - 📍 D1.02

### Querying in Description Logics

Chair: Stefan Borgwardt

*Despoina Trivela, Giorgos Stoilos, Vasilis Vassalos*

Query Rewriting for DL Ontologies under the ICAR semantics

*Magdalena Ortiz*

Ontology-mediated queries from examples: a glimpse at the DL-Lite case

*Christian Alrabbaa, Patrick Koopmann and Anni-Yasmin Turhan*

Practical Query Rewriting for DL-Lite with Numerical Predicates

*Olivier Rodriguez, Reza Akbarinia, Federico Ulliana*

(short) Querying Key-Value Stores Under Single-Key Constraints: Rewriting and Parallelization

DecCAMP session

🕒 17 Sept, 11:00 - 📍 C2.01

DecisionCAMP presentations.  
Refer to the schedule [here](#).

GCAI session (3L)

🕒 17 Sept, 14:00 - 📍 D1.02

### Time and Dynamics

Chair: TBA

*Dario Della Monica, Angelo Montanari, Aniello Murano and Guido Sciavicco*

Ultimately-periodic interval model checking for temporal dataset evaluation

*Abdullah Khan, Loris Bozzato, Luciano Serafini and Beatrice Lazzerini*

Visual Reasoning on Complex Events in Soccer Videos Using Answer Set Programming

*Aysu Bogatarkan, Volkan Patoglu and Esra Erdem*

A Declarative Method for Dynamic Multi-Agent Path Finding

RuleMLRR session (4L)

🕒 17 Sept, 14:00 - 📍 D1.03

**Description logics and Ontologies***Chair: Madgalena Ortiz**Loris Bozzato, Thomas Eiter, Luciano Serafini*Reasoning on DL-Lite<sub>R</sub> with Defeasibility in ASP*Friedrich Michel, Anni-Yasmin Turhan, Benjamin Zarrieß*

Efficient TBox Reasoning with Value Restrictions--Introducing the Flower Reasoner

*Martin Ledvinka, Petr Kremen*

Formalizing Object-ontological Mapping Using F-logic

*Stefan Borgwardt, Walter Forkel, Alisa Kovtunova*

Finding New Diamonds: Temporal Minimal-World Query Answering over Sparse ABoxes

DecCAMP session

🕒 17 Sept, **14:00** - 📍 C2.01

DecisionCAMP presentations.

Refer to the schedule [here](#).

GCAI+RuleMLRR posters

🕒 17 Sept, **16:00** - 📍 Floor1 + F6

The poster session will be held in the corridor, 1st floor.

The business meeting will be in F6.

DecCAMP session

🕒 17 Sept, **16:00** - 📍 C2.01

DecisionCAMP presentations.

Refer to the schedule [here](#).**18 September**

GCAI+RuleMLRR+DecCAMP keynote (Gualtieri)

🕒 18 Sept, **9:00** - 📍 D0.01*Mike Gualtieri*The Future of Enterprise AI and Digital Decisions (**abstract**).*Chair: Jacob Feldman*

GCAI session (3L + 1S)

🕒 18 Sept, 11:00 - 📍 D1.02

### Description Logics and Ontologies

Chair: Domenico Lembo

*Pietro Galliani, Oliver Kutz, Daniele Porello, Guendalina Righetti and Nicolas Troquard*

On Knowledge Dependence in Weighted Description Logic

*Satyadharna Tirtarasa and Benjamin Zarrieß*

Projection in a Description Logic of Context with Actions

*Mohamed Ben Ellefi, Pierre Drap, Laurent Garcia, Fabien Garreau, Claire Lefèvre, Odile Papini, Igor Stéphan and Eric Würbel*

Query Answering Ontologies With Non-Monotonic Rules: Application to a Qualitative Spatial Reasoning for Archaeology

*Guendalina Righetti, Pietro Galliani, Oliver Kutz, Claudio Masolo, Daniele Porello and Nicolas Troquard*

(short) Weighted Description Logic for Classification Problems

RuleMLRR session

🕒 18 Sept, 11:00 - 📍 D0.01

### Rule Challenge

Chair: François Bry

*Sotiris Moschoyiannis and Vasily Shcherbinin*

Fine tuning run parameter values in rule-based machine learning

*Mark Proctor, Davide Sottara, Stefano Bragaglia and Mohammad Hekmatnejad*

Traits: An Object Oriented Dynamic Type System for reasoning with Unstructured Data in a type safe Environment

*Tara Athan, Harold Boley and Rima Chaudhari*

Specifying PSOA RuleML/XML 1.03: MYNG-modularized Schemas for the RNC & XSD  
Validation of XSLT-normalized Data and Knowledge

*Jiří Filip and Tomáš Kliegr*

PyIDS - Implementation of Interpretable Decision Sets Algorithm in Python

*Juergen Angele and Kevin Angele*

OO-logic a Successor of F-logic

*Dörthe Arndt and William Van Woensel*

Towards Supporting Multiple Semantics of Named Graphs Using N3 Rules

DecCAMP session

🕒 18 Sept, 11:00 - 📍 C2.01

DecisionCAMP presentations.  
Refer to the schedule [here](#).

GCAI session (3L)

🕒 18 Sept, 14:00 - 📍 D1.02

### Model Counting and Reasoning

*Sibylle Möhle and Armin Biere*

Combining Conflict-Driven Clause Learning and Chronological Backtracking for Propositional Model Counting

*Ruba Alassaf and Renate A. Schmidt*

DLS-Forgetter: An Implementation of the DLS Forgetting Calculus for First-Order Logic

*Levan Uridia*

Common Knowledge in Epistemic Logic With Hypotheses

RuleMLRR+DecCAMP session

🕒 18 Sept, 14:00 - 📍 C2.01

DecisionCAMP presentations.  
Refer to the schedule [here](#).

DecCAMP session

🕒 18 Sept, 16:00 - 📍 C2.01

DecisionCAMP presentations.  
Refer to the schedule [here](#).

## 19 September

GCAI+RuleMLRR keynote (De Giacomo)

🕒 19 Sept, 9:00 - 📍 D0.01

*Giuseppe De Giacomo*

WhiteMech: White-Box Self-Programming Mechanisms ([abstract](#)).

*Chair: Diego Calvanese*

DecCAMP session

🕒 19 Sept, 9:00 - 📍 C2.01

DecisionCAMP presentations.

Refer to the schedule [here](#).

GCAI+RuleMLRR session (2L / 2S)

🕒 19 Sept, 11:00 - 📍 D0.01

### Machine Learning

Chair: Sotiris Moschoyiannis

*Lukas Hahn, Lutz Roese-Koerner, Peet Cremer, Urs Zimmermann, Ori Maoz and Anton Kummert*

On the Robustness of Active Learning

*Gines Moreno, Jesús Pérez and José Antonio Rianza Valverde*

(short) Fuzzy Logic Programming for Tuning Neural Networks

*João Ribeiro, Francisco Melo and João Dias*

Transfer Learning and Catastrophic Forgetting in Deep Reinforcement Learning

*Federico Bianchi, Matteo Palmonari, Pascal Hitzler, Luciano Serafini*

(short) Complementing Logical Reasoning with Sub-Symbolic Commonsense

DecCAMP session

🕒 19 Sept, 11:00 - 📍 C2.01

DecisionCAMP presentations.

Refer to the schedule [here](#).

GCAI+RuleMLRR session (4 DC papers)

🕒 19 Sept, 14:00 - 📍 D0.01

### Doctoral Consortium

Chair: Mantas Simkus

*Sanja Pavlovic*

Ontology-Enriched Data Management with Partially Complete Data

*Fillipe Resina*

Multiple Revision in Description Logics

*Marjolein Deryck and Joost Vennekens*

Knowledge elicitation within the knowledge base paradigm: disentangling domain knowledge from decision making in industrial applications



*Jiri Zettel*

Anonymization of the University Information System Log Data: a Case Study

DecCAMP session

🕒 19 Sept, **14:00** - 📍 C2.01

DecisionCAMP presentations.

Refer to the schedule [here](#).

GCAI+RuleMLRR poster session

🕒 19 Sept, **16:00** - 📍 Floor1

The poster session will be at 16:00-17:30 in the corridor, 1st floor.

LegalRuleML tutorial and F2F meeting

🕒 19 Sept, **17:00** - 📍 D1.01

**17:00-17:45** LegalRuleML tutorial - 📄 [slides](#)

**17:45-18:30** LegalRuleML F2F meeting

DecCAMP session

🕒 19 Sept, **16:00** - 📍 C2.01

DecisionCAMP presentations.

Refer to the schedule [here](#).

Closing session

🕒 19 Sept, **17:30** - 📍 D0.01

Closing session