

CEDAR

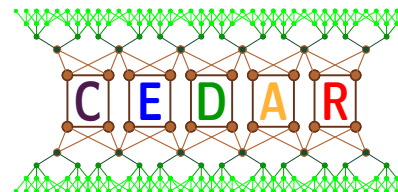
Constraint Event-Driven Automated Reasoning

Project Review Recapitulation

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Outline: what this postamble is about

This is a brief recapitulation to:

- ▶ **share some lessons learned** during the *CEDAR* project
- ▶ **tally the productions** of the *CEDAR* project
- ▶ **submit a request** to today's *CEDAR* review's expert guests

- ▶ **Never**, ever, **trust published results**
... unless you can **duplicate them**
- ▶ **Information & computation** are **no longer disk-bound**
... but **cloud-bound**
- ▶ Extant **standard Semantic Web technology** is
... (un)surprisingly **inadequate** re. **scalability**
- ▶ The W3C SW standards are **Shadokian**:
... why do **simple** when you can do **complicated?**
- ▶ Smart **Distributed File Systems** for RDF processing
... is the **way of the future**
- ▶ Who can best **process Big *Linked Data*** (“Blinked Data”)
... can **control the World**

CEDAR Technical Reports (to date)

- **CTR2** **Classifying and Querying Very Large Taxonomies**, Hassan Aït-Kaci, Samir Amir (May 2013)
- **CTR3** **Fast Taxonomic Reasoning Based on Lattice Operations (System Demonstration)**, Samir Amir, Hassan Aït-Kaci (August 2013)
- **CTR4** **Efficient Encoding of Very Large Partial Orders**, Hassan Aït-Kaci (September 2013)
- **CTR5** **Experiments with Scalable Triplestores**, Hassan Aït-Kaci, Mohand-Saïd Hacid, Rafiqul Haque, Damien Fourure (October 2013)
- **CTR6** **An Effect of Ordered Sorts in Markov Logic Networks (Preliminary Report)**, Yutaka Sasaki (November 2013)

CEDAR Technical Reports (to date—ctd.)

- **CTR7** **CedTMart—A Triplestore for Storing and Querying Blinking Data**, Minwei Chen, Rafiqul Haque, Mohand-Saïd Hacid (July 2014)
- **CTR8** **A Cache Only Memory Architecture for Big Data Applications**, Tanguy Raynaud and Rafiqul Haque (July 2014)
- **CTR9** **The `Cedar.Gdl` Java Library for the Generalized Distributive Law—Design and Implementation**, Kevin Sancho and Hassan Aït-Kaci (July 2014)
- **CTR10** **`Cedar.Gdl` Java Library User Manual**, Kevin Sancho (July 2014)
- **CTR11** **A Set-Complete Construction for Order-Sorted Set-Valued Features**, Hassan Aït-Kaci (October 2014)
- **CTR12** **Design and Implementation of an Efficient Semantic Web Reasoner**, Samir Amir and Hassan Aït-Kaci (October 2014)

CEDAR Technical Reports (to date—ctd.)

- **CTR14** *GALIA*—An OWL-based Generic RDF Instance Generator, Tanguy Raynaud, Rafiqul Haque, Samir Amir, Hassan Aït-kaci, Mohand-Saïd Hacid (November, 2014)
- **CTR15** Development of the CedTMart Query Processor, Minwei Chen, Rafiqul Haque, Mohand-Saïd Hacid (November 2014)

CEDAR Technical Reports (pending)

- **CTR16** *HOOT*—Expressing and Querying Hierarchical Ontologies, Objects, and Types, Hassan Aït-Kaci (December 2014)
- **CTR17** The Design and Implementation of Xadoop, a Disruptor-based Multi-master Hadoop, Mohamed-Ali Hammal, Rafiqul Haque, Hassan Aït-Kaci (December 2014)
- **CTR18** A synthetic survey of prominent distributed file systems, Rafiqul Haque, Hassan Aït-kaci (December 2014)

Software

- **CEDAR** TBox Reasoner and ABox Query Processor
- **CedTMart** Distributed Triplestore Query Manager
- **Cedar.Gdl** “General Distributive Law” Java Library
- **CedCom** Distributed Cache-Only Memory Architecture
- **Xadoop** Disruptor-based Multi-master Hadoop
- **GATA** Triplestore Generator

Publications (to date)

1. **CEDAR: a Fast Taxonomic Reasoner Based on Lattice Operations (System Demonstration)**, Samir Amir and Aït-Kaci, **12th International Semantic Web Conference (ISWC 2013)**, Sydney, Australia (21–25 October 2013)
2. **An Abstract, Reusable, and Extensible Programming Language Design Architecture**, Hassan Aït-Kaci, **In Search of Elegance in the Theory and Practice of Computation**, Edinburgh, UK (28–29 October 2013)
3. **Blinked Data: Concepts, Characteristics, and Challenges**, Rafiqul Haque and Mohand-Saïd Hacid, **IEEE 10th World Congress on Services (SERVICES 2014)**, Anchorage, Alaska, USA (June 27–July 2, 2014)

Publications (to date—ctd.)

4. **CedCOM: A Cache Only Memory Architecture for Big Data Applications**, Tanguy Raynaud, Rafiqul Haque, Hassan Aït-Kaci, **11th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA, 2014)**, Doha, Qatar (November 10–13, 2014)
5. **CEDAR: Efficient Reasoning for the Semantic Web**, Samir Amir, Hassan Aït-Kaci, **10th International Conference on Signal Image Technology & Internet-Based Systems (SITIS 2014)**, Marrakech, Morocco (November 23–27, 2014)

Submitted Publications:

6. **Classifying and Querying Very Large Taxonomies with Bit-Vector Encoding**, Aït-Kaci, Samir Amir (journal submission on June 2014)
7. **Design and Implementation of an Efficient Semantic Web Reasoner**, Samir Amir, Hassan Aït-Kaci (journal submission on October 2014)

What is expected from each of today's expert guest

Since there is no such thing as a “free lunch” (*whatever its quality!*), each of you please use 10 mins to tell us what you think.

You will then be asked to be so kind as to provide a **brief note** giving us some feedback in writing:

- ▶ A short **statement** situating your perspective of interest *w.r.t.* to the *CEDAR* project's theme;
- ▶ Your **positive thoughts** (if any);
- ▶ Your **criticisms** (if any);
- ▶ Your **overall opinion** of the project from your perspective.

This feedback note from you would be most gratefully appreciated by “**yours truly**” as soon as you may find it convenient to provide it.

Thank You For Your Attention !

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