Decision Camps Memories
2018 Luxembourg

Countries:
2017 London

DMN from Different Perspectives

- OMG RTF’s Perspective
- DM Practitioner’s Perspective
- Vendor’s Perspective
- End User’s Perspective

DMN Standard

Demonstrated DMN Interchange

Decision Modeling
- Trisotech
- SIGNAVIO

Decision Execution, Testing, and Management
- DMN XML
- Drools
- OPENRULES

Interchange Example

Decision Camp

Photo of people smiling and drinking beer.
Constraints and Rules

Brief Constraints Tutorial
Relating Constraints and Rules
Providing Explanations

For a change of pace, this talk will be delivered without PowerPoint
The Decision Optimization cycle

... and that allows business users to execute multiple what-if scenarios

\[
\begin{align*}
\min & \quad c^T x \\
\text{s.t.} & \quad Ax \leq b \\
& \quad x \text{ integer}
\end{align*}
\]

INPUTS
- Demand to be Met
- Resources Available
- Costs, Yields & Recipes
- Operational Constraints & Customer Preferences
- Business Goals

OPTIMIZATION ENGINE(S)

Using one or many

SCHEDULE OR PLAN WITH METRICS

Minimized Costs
Maximized Yields
Best Possible Timing of Activities
Specific Resource Assignments

What used to take days or weeks can now be achieved almost instantly ...
Unified Business-Friendly Language

- A transaction is suspect if the home country of the owner of the credit card is not the country of the transaction.
- If the transaction is in a country other than the home country of the credit card, their history shows more than one transaction in less than 3 months.
- The average amount of transactions in countries other than the home country is more than 500.

Typical solution 1

<table>
<thead>
<tr>
<th>Age in Years</th>
<th>Years of Service</th>
<th>Location Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25 - 40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; 40</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Joint work:
- Chen Cao, Stanford University
- Kyle Richardson, City College University
- Aymen Saheb, SAP
- Vitaly Shpak, SAP (new Teneo!)

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2014 San Jose
- Instance-oriented vs. set-oriented.
- Iterating over objects.
- Finding extreme values.
- Writing efficient rules.
- Other rule engine topics.
- User-defined agent rules.
Dr. Douglas Lenat of Cycorp and the Cyc Project will be one of the keynotes!

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KEYNOTE ADDRESS:

Soar Rules: The Role of Production Rules in a General Cognitive Architecture
John Laird, Ph.D., Professor of Electrical Engineering and Computer Science, University of Michigan

For the full agenda, please click here: http://rulesfest.org/html/agenda.html