

How to Build a Stream Reasoning Application

D. Dell'Aglio, E. Della Valle,
T. Le-Pham, A. Mileo, and R. Tommasini

<http://streamreasoning.org/events/streamapp2017>

Vienna · Austria
ISWC 2017



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Universität
Zürich UZH



Insight

Conclusions

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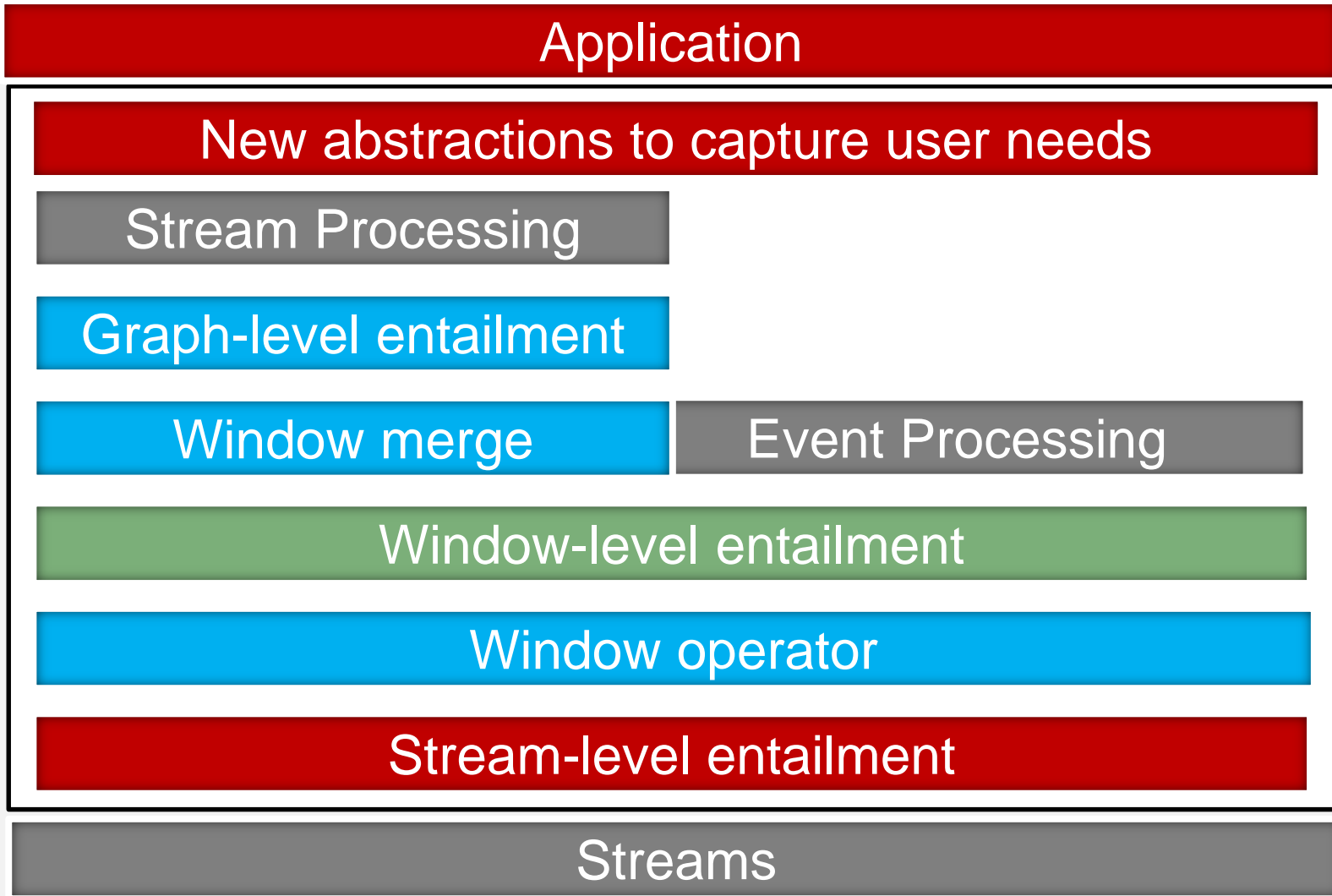


@dandellaglio

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 - These slides are partially based on “How to Build a Stream Reasoning Application 2017” by D. Dell'Aglio, E. Della Valle, T. Le-Pham, A. Mileo, and R. Tommasini available online at <http://streamreasoning.org/events/streamapp2017>
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Requirement	Status
volume	:-(
velocity	:-)
variety	:-
incompleteness	:-(
noise	:-(
reactive answers	:-
fine-grained information access	:-)
complex domain models	:-
high-level languages	:-

Stream Reasoning



■ very well ■ some initial studies ■ still very open

[P05] Riccardo Tommasini and Emanuele Della Valle: *Yasper 1.0: Towards an RSP-QL Engine*

[P06] Qiong Li et al.: *An Adaptive Framework for RDF Stream Reasoning*

[P12] Yehia Abo Sedira et al.: *MobileWave: Publishing RDF Streams From SmartPhones*

[D48] Andrea Mauri et al.: *Stressless RSP Benchmarking With RSPLab*

Doctoral consortium

- Shima Zahmatkesh: *Retrieval of the most relevant facts from data streams joined with slowly evolving dataset published on the Web of Data*
- Qian Liu: *ProvDS: Uncertain Provenance Management over Incomplete Linked Data Streams*

Main conference

- Xiangnan Ren and Olivier Curé: *Strider: A Hybrid Adaptive Distributed RDF Stream Processing Engine*
- Hamid R. Bazoobandi et al.: *Expressive Stream Reasoning with Laser*
- Riccardo Tommasini et al.: *RSPLab, RDF Stream Processing Benchmarking made easy*

Web Stream Reasoning workshop (from 14:00)

- Qianru Zhou et al.: *Lost Silence: An Emergency Response Early Detection Service through Continuous Processing of Telecommunication Data Streams*
- Veronika Thost: *News on Temporal Conjunctive Queries*
- Riccardo Tommasini and Emanuele Della Valle: *Challenges & Opportunities of RSP-QL Implementations*
- Philipp Zehnder and Dominik Riemer: *StreamConnect: Ingesting Historic and Real-Time Data into Unified Streaming Architectures*
- Thomas Eiter et al.: *Detecting Mobility Patterns using Spatial Query Answering over Streams*
- Jean-Paul Calbimonte: *Linked Data Notifications for RDF Streams*

- When: At 19:00 (up to 22:30)
- Where: Vienna City Hall, Lichtenfelsgasse 2, 1010 Vienna
 - U2 (direction Karlsplatz), stop at Rathaus
 - Take the exit Friedrich-Schmidt-Platz
 - Arrived!
- Buffet dinner
- Some remarks:
 - Badge is required to enter
 - Laptop and backpack should be left in the cloakroom
 - Complementary public transport tickets are available at the registration desk
- More at: <https://iswc2017.semanticweb.org/program/social-events/>

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