

# DeSemWeb 2017

## Decentralizing the Semantic Web

Proceedings of the Workshop on Decentralizing the Semantic Web 2017  
co-located with 16th International Semantic Web Conference ([ISWC  
2017](#))

Vienna, Austria, October 22, 2017.

Edited by

Ruben Verborgh \*

Tobias Kuhn \*\*

Andrei Sambra \*\*\*

\* Ghent University – imec, Belgium

\*\* VU University Amsterdam, The Netherlands

\*\*\* Massachusetts Institute of Technology, USA

---

## Table of Contents

- [Decentralizing the Semantic Web: Who Will Pay to Realize It?](#)  
*Tobias Grubenmann, Daniele Dell'Aglio, Abraham Bernstein, Dmitry Moor, Sven Seuken*
- [Semantic Web in the Fog of Browsers](#)  
*Pascal Molli, Hala Skaf-Molli*
- [Decentralizing the Persistence and Querying of RDF Datasets Through Browser-Based Technologies \[canonical URL\]](#)

### *Blake Regalia*

- [Storage Balancing in P2P Based Distributed RDF Data Stores](#)  
*Maximiliano Osorio, Carlos Buil-Aranda*
- [Attaching Semantic Metadata to Cryptocurrency Transactions](#)  
*Luis-Daniel Ibañez, Huw Fryer, Elena Simperl*
- [LinkChains: Exploring the Space of Decentralised Trustworthy Linked Data \[canonical URL\]](#)  
*Allan Third, John Domingue*
- [Agreements in a Decentralized Linked Data Based Messaging System \[canonical URL\]](#)  
*Florian Kleedorfer, Heiko Friedrich, Christian Huemer*
- [Agent Server: Semantic Agent for Linked Data \[canonical URL\]](#)  
*Teofilo Chambilla, Claudio Gutierrez*
- [Specifying and Executing Application Behaviour with Condition-Request Rules \[canonical URL\]](#)  
*Andreas Harth, Tobias Käfer*
- [The tripscore Linked Data Client: Calculating Specific Summaries over Large Time Series \[canonical URL\]](#)  
*David Chaves-Fraga, Julian Rojas, Pieter-Jan Vandenberghe, Pieter Colpaert, Oscar Corcho*
- [On a Web of Data Streams \[canonical URL\]](#)  
*Daniele Dell'Aglio, Dahn Le Phuoc, Anh Le-Tuan, Muhammad Intizar Ali, Jean-Paul Calbimonte*
- [Towards VoIS: A Vocabulary of Interlinked Streams](#)  
*Yehia Abo Sedira, Riccardo Tommasini, Emanuele Della Valle*

We offer a [BibTeX file](#) for citing papers of this workshop from LaTeX.

---

2017-09-20: submitted by Ruben Verborgh, metadata incl. bibliographic data published under [Creative Commons CC0](#)  
2017-09-22: published on [CEUR-WS.org](#) | [valid HTML5](#) |