Developers Workshop (SemDev): Summary

Ruben Taelman[1], Jindřich Mynarz[2] and Jerven Bolleman[3]

[1]*IDLab, Ghent University – imec, Ghent, Belgium*
[2]*MSD Czech Republic, Prague, Czech Republic*
[3]*Swiss-Prot Group, SIB Swiss Institute of Bioinformatics, Geneva, Switzerland*

Abstract

This is a summary of the Developers Workshop (SemDev) co-located with the 21st International Conference on Semantic Systems (SEMANTiCS).

Summary

In theory, the interplay between academia and industry is bidirectional. Industry informs academics about real-world problems that require novel solutions. Academics can then design novel algorithms as solutions, which they evaluate based on software prototypes. These research outcomes can then be picked up by industry, and become implemented in commercial products and services.

In practise, this interplay unfortunately does not flow as smooth as theorized. First, problems in industry do not always become apparent to the research community. This can cause real-world problems to not get picked up by researchers, or researchers coming up with solutions for which no real problem exists. Second, the research outcomes that academics consider finished may still not be practical enough to be useful in industry. Moving from a research prototype towards a technical-ready implementation can still require non-trivial problems to be solved, which can require additional research.

As such, there is a need for a common ground where academics and companies can discuss real-world problems, and gaps between research prototypes and technical-ready products. This workshop aims to fill this need, and is therefore relevant for researchers and industrial partners.

In this edition, we received ten submissions, from which four were accepted as software talks, and five were accepted as software demos. Each submission underwent a fully open peer-review process with at least three reviews per paper using the OpenReview platform.

The website of the workshop is: https://semantics2025.semdev.org/

Program Committee

- Pieter Colpaert, IDLab, Ghent University – imec, Ghent, Belgium
- Jose Emilio Labra Gayo, University of Oviedo, Spain
- Thi Hoang Thi PHAM, Université de Nantes, France
- Olaf Hartig, Linköping University, Sweden
- Thomas Pellissier Tanon, Helsing, Germany
- Hala Skaf-Molli, Université de Nantes, France
- Brice Nédelec, Université de Nantes, France
- Jackson Morgan, SetMeld, United States of America
- Fabien L. Gandon, INRIA, France
- Bryan-Elliott Tam, IDLab, Ghent University – imec, Ghent, Belgium
- Thomas Bergwinkl, TopQuadrant, United States of America
- Laurens Rietveld, Triply, Netherlands

- Jonni Hanski, IDLab, Ghent University – imec, Ghent, Belgium
- Karel Klíma, Charles University Prague, Czech Republic