

## PAINS 2018 – Preface

The 1<sup>st</sup> Workshop on Pains in Model-Driven Engineering Practice (PAINS) was co-located with the ACM/IEEE 21th International Conference on Model Driven Engineering Languages and Systems (MODELS 2018) in, Copenhagen, Denmark.

The workshop’s premise was that software engineering research must always be solidly rooted in industrial needs. Such needs must be given a medium to be clearly communicated between industry and research. Otherwise, research becomes untethered while the industry's needs are not met. The objective was thus to bring together people from industry and research to discuss concrete pains, issues and challenges faced in the industrial practice of MDE. With a unique focus on the needs of industrial practitioners, the PAINS workshop aimed to close the gap between industrial requirements in model-driven engineering and academic solutions.

The PAINS workshop started with two keynote presentations. The first was given by Stefan Kriebel from the BMW Group and was titled “Pains in Modeling: SysML-based Deployment in an Engineering Domain”. The second was given by Nikolaus Regnat from Siemens and was titled: “Applying model-based approaches in industry environments: key challenges and issues”. The keynote presentations were followed by 9 flash talks by industrial practitioners:

- Gerald Stieglbauer (AVL), Philip Langer and Stefan Sobernig: “User Experience for DSLs - Aspects in regard to the Introduction of MDE within an Industrial Environment”.
- Jonathan Co (IBM), Richard F. Paige, Peter Thomas and Stephen Hobson: “The Pains of Working with Spreadsheets in Model-Driven Engineering”.
- Arne Nordmann (Bosch GmbH): “Pains in Adopting MDE for Safety in Highly-Automated Driving”.
- Thibaud Thomas and Sutra Iris (Plastic Omnium): “Model Based System Engineering Challenges @ PLASTIC OMNIUM”.
- Garry Craig (Leonardo): “Code Generation Pains”.
- Elena Strabykina and Mattias Mohlin (HCL Technologies): “Simplification and dynamic customization of MDE tools”.
- Vinay Kulkarni and Sreedhar Reddy (TCS Research): “Pains with MDE”.
- Juha-Pekka Tolvanen (MetaCase): “How to provide “experience” to doubters? On introducing MDE into an organization”.
- Levi Lucio (fortiss GmbH): “The PAINS after 15 years of practicing MDE”.

Slides will be available on the workshop web page: <https://sites.google.com/view/pains-2018/>

The second half of the workshop consisted of a “World Café” structured conversation, aimed at eliciting MDE pains from the workshop participants. The notes taken from this conversation will be used to compile a summary of challenges and possible approaches to solutions.

We deeply thank the PAINS 2018 keynote speakers, the flash talk presenters, as well as all workshop participants. We also thank the organization committee of the main MODELS 2018 conference for their trust and support.

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