

C COSE



Empirical-Evolution of Frameworks Supporting Cosimulation Tool-chain Development

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Challenges of CPS Tool-chain Development

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E-mail Meeting





Introduction to Standards Standardization Bodies 150 Constantin be API. cen BSI Test Training Electronics System Design **Standards** Tool Data Data Tool Quality Software Safety Process Information Knowledge Project manager Data Model Maintenance **Mechanical System** IT **Business model** Subsystems

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Motivation







Integrate system architecture, development process and modeling methods



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Formalisms of co-simulation tool-chains







Case A



Our MBSE tool-chain supporting co-simulation

Visualizations

Complexities of tool-chains





Automation of tool-chains



Virsualizations

Workflow of tool-chains



Social networks of tool-chains



Domain specific model representing Tool-chains' structure and workflow



Future work

