“model everything” @ MSDL

Language Engineering
Domain-Specific Languages, Model Transformation, (web-based) Visual and Textual Modelling Environments, etc.

Simulation
Co-Simulation, Discrete-event, DEVS, continuous time, acausal, Modelica, etc.

Deployment & Resource-optimized Execution
Platforms (e.g. AUTOSAR, CAN, etc.), Design-Space Exploration, Virtualization, Models@run-time, Efficient execution of model transformations, etc.

Validation, Verification, Testing and Accreditation
Analysis and Verification of Model Transformations, Debugging, Instrumentation, Tracing, etc.
Applications

Foundations

Tools

- **Language Engineering**
  - Domain-Specific Languages, Model Transformation,
    (web-based) Visual and Textual Modelling Environments,
    etc.

- **Simulation**
  - Co-Simulation, Discrete-event, DEVS, continuous time,
    acausal, Modelica, etc.

- **Deployment & Resource-optimized Execution**
  - Platforms (e.g., AUTOSAR, CAN, etc.), Design-Space
    Exploration, Virtualization, Models@run-time, Efficient
    execution of model transformations, etc.

- Validation, Verification, Testing and Analysis
  - Transformations, Debugging, Instrumentation, etc.