Abstract:
The paper demonstrates various ways Altair HyperMath has been used to enhance custom post-processing efforts at the "Development Driving Dynamics – Test Bed Support" department in BMW. The use cases highlight how HyperMath has taken the role as a supporting tool for Altair HyperGraph by implementing the custom computing needs of the process. Complex tasks like highly customized transfer functions, generation of complex input parameters for test beds or qualitative benchmarks using test and reference data have been up to now accomplished either through the basic custom numerical computing functions offered by the Altair products, or partly to entirely through other commercial tools. The introduction of HyperMath into the process has enhanced the user experience with respect to development and maintenance of numerical code within the Altair product suite and allowed to reduce or totally eliminate dependencies on other commercial tools.

Keywords:
- HyperMath
- Customized Math Functions
- Qualitative Benchmarks
- Automated Reports

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