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Titolo	Optimization of Zonal Electric/Electronic Architectures Using a Coupled Modeling Approach of Package and Wiring Harness // by Jonas Maier
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Nota di contenuto	Vehicle Electric/Electronic Architectures -- Optimization of Electric/Electronic Architectures -- Design of Zonal Electric/Electronic Architectures -- Case Study and Discussion.
Sommario/riassunto	Jonas Maier presents a method for designing decentralized, spatially structured E/E architectures. A coupled approach of package and wiring harness models is used for this purpose. Relevant data can be exchanged between the models by transferring the boundary conditions. The spatial division of the vehicle into zones is optimized by an extended k-means algorithm. Based on this, the connection paths between the components are optimized with regard to various boundary conditions. This results in a complexity reduction of the wiring harness as well as the overall architecture. Content Vehicle Electric/Electronic Architectures Optimization of Electric/Electronic Architectures Design of Zonal Electric/Electronic Architectures Case Study and Discussion Target Groups Lecturers and students of automotive, electrical and mechanical engineering Scientists in the field of E/E architectures, package integration and wiring harness About the Author Jonas Maier is currently a technical project manager and works

on data and power supply systems for railroad control and safety systems. Previously, he was a research assistant at the Institute of Automotive Engineering at the University of Stuttgart, where he conducted research in the field of decentralised electronic architectures focussing on complexity reduction and wiring harness optimisation.

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