



KOLLOQUIUM

Institut für Elektrotechnik, Elektronik und Informationstechnik

Hybrid and Fuel Cell Vehicle Technologies and Future Trends

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Cauerstraße 7/9, Hörsaal H6

Diskussionsleitung: Prof. Dr.-Ing. B. Piepenbreier

The automotive companies are developing hybrid and fuel cell vehicles for reducing the emissions and for improving the fuel economy. In this seminar, types of fuel cells and their operation will be explained. Different types of hybrid and fuel cell vehicle strategies and their operation are described. A comparison of architectures of hybrid propulsion systems based on internal combustion engines - battery and hybrids based on fuel cells - battery will be presented. The associated power electronics and control strategies will be explained. The use of fuel cells for on-board power generation in transportation applications will also be presented. The future technology trends, markets, and applications will be discussed.