


# TEMA

## Engineering / Economy



### What can I find in TEMA?

- The database accounts for literature, articles, conference papers and research reports from the field of technology & management.
- Using , you can check whether the result is available as a full text in the THI confined materials. If not, please use the interlibrary loan system.


### How do I access TEMA?

- Go to the library's website:  
<http://www.thi.de/en/service/university-library/information-resources/databases.html>
- Select **Electrical and Mechanical Engineering, Computer Sciences** → TEMA.


### Expert search

- A search history is set-up.
- All search steps can be conducted again individually and linked by using  or .

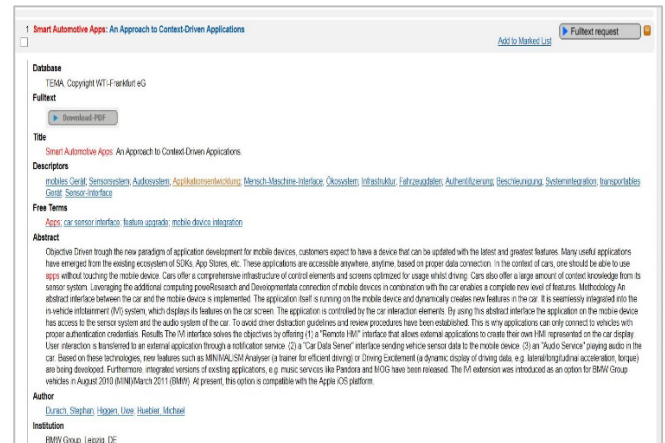
### Thesaurus search

- A thesaurus is a structured collection of terms that you can use to find new search terms on your topic.
- Using the  button, terms from the thesaurus can be included in the search query.

### Tips


- Use the  button for further explanations on using the database.
- Via **Database selection**, you can find other databases, which are supplied by the WTi Frankfurt using the same user interface:

<b>TEMotive</b>	Electromobility
<b>DKF</b>	Automotive engineering
<b>ESTEC</b>	Technologies for the environment and sustainability



1 Smart Automotive Apps: An Approach to Context-Driven Applications

Database: TEMA, Copyright WTi-Frankfurt/IG

Fulltext: 

Title: Smart Automotive Apps: An Approach to Context-Driven Applications

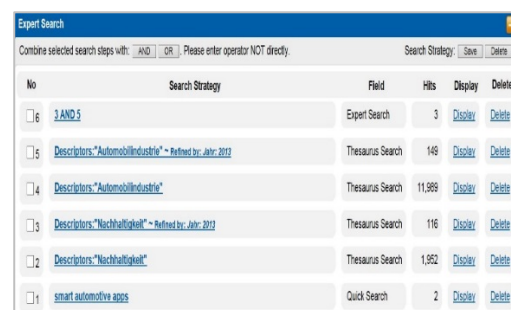
Descriptors: mobilität, Gestik, Sensoren, System, Autonomie, Applikation, Entwicklung, Mensch-Maschine-Interface, Ökonomie, Infrastruktur, Fahrzeugdaten, Authentifizierung, Beschleunigung, Systemintegration, Transportmittel, Smart-Sensor-Interface

Free Terms: [apps](#), [car sensor interface](#), [feature upgrade](#), [mobile device integration](#)

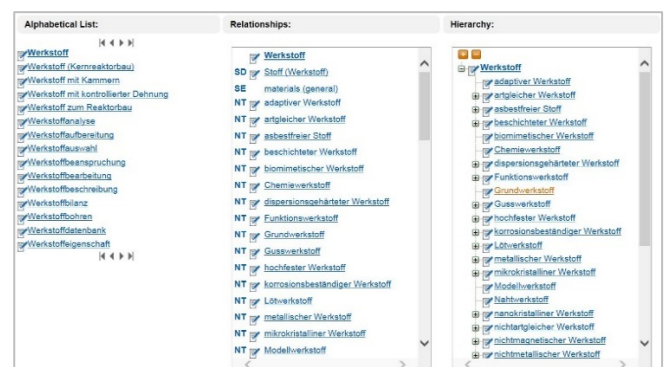
Abstract: Objective Driven through the new paradigm of application development for mobile devices, customers expect to have a device that can be updated with the latest and greatest features. Many useful applications have emerged from the existing ecosystem of SDKs, App Stores, etc. These applications are accessible anywhere, anytime, based on proper data connection. In the context of cars, one should be able to use apps without touching the mobile device. Cars offer a comprehensive infrastructure of control elements and screens optimized for usage whilst driving. Cars also offer a large amount of context knowledge from its sensor system. Leveraging the additional computing possibilities and development data connection of mobile devices in combination with the car creates a complete new level of features. Methodology for abstract interface between the car and the mobile device is implemented. The application itself is running on the mobile device and dynamically creates new features in the car. It is seamlessly integrated into the in-vehicle infotainment (IVI) system, which displays its features on the car screen. The application is controlled by the car interaction elements. By using this abstract interface the application on the mobile device has access to the sensor system and the audio system of the car. To avoid driver distraction guidelines and review procedures have been established. This is why applications can only connect to vehicles with proper authorization conditions. Goals: The IVI interface solves the objectives by offering (1) a "Remote IVI" interface that allows external applications to create their own IVI, represented on the car display. User interaction is translated to an external application through a notification service. (2) a "Car Data Server" interface sending vehicle sensor data to the mobile device. (3) an "Audio Service" playing audio in the car. Based on these technologies, new features such as MINIMALISM Analyser (a helper for efficient driving) or Driving Excitement (a dynamic display of driving data, e.g. lateral/longitudinal acceleration, torque) are being developed. Furthermore, integrated variants of existing applications, (e.g. music services like Pandora and iMOS) have been released. The IVI extension was introduced as an option for BMW Group vehicles in August 2010 (BMW March 2011 (BMW)). At present, the system is compatible with the Apple iOS platform.

Author: Dürsch, Stephan; Hoppe, Uwe; Raab, Michael

Institution: BMW Group, Leipzig, DE



No	Search Strategy	Field	Hits	Display	Delete
6	3 AND 5	Expert Search	3	<a href="#">Display</a>	<a href="#">Delete</a>
5	Descriptors:"Automobilindustrie" ~ Refined by: Jahr: 2013	Thesaurus Search	149	<a href="#">Display</a>	<a href="#">Delete</a>
4	Descriptors:"Automobilindustrie"	Thesaurus Search	11,989	<a href="#">Display</a>	<a href="#">Delete</a>
3	Descriptors:"Nachhaltigkeit" ~ Refined by: Jahr: 2013	Thesaurus Search	116	<a href="#">Display</a>	<a href="#">Delete</a>
2	Descriptors:"Nachhaltigkeit"	Thesaurus Search	1,952	<a href="#">Display</a>	<a href="#">Delete</a>
1	smart automotive apps	Quick Search	2	<a href="#">Display</a>	<a href="#">Delete</a>



Alphabetical List: [Werkstoff](#) (Kammernbau), [Werkstoff mit Kammern](#), [Werkstoff mit kontrollierter Dehnung](#), [Werkstoff zum Reaktorbau](#), [Werkstoffanalyse](#), [Werkstoffaufbereitung](#), [Werkstoffauswahl](#), [Werkstoffbeanspruchung](#), [Werkstoffbearbeitung](#), [Werkstoffbeschreibung](#), [Werkstoffbilanz](#), [Werkstoffbohrer](#), [Werkstoffdatenbank](#), [Werkstoffeigenschaft](#)

Relationships: [Werkstoff](#), [SD Stoff \(Werkstoff\)](#), [SE materials \(general\)](#), [NT adaptiver Werkstoff](#), [NT artgleicher Werkstoff](#), [NT asbestfreier Stoff](#), [NT beschichteter Werkstoff](#), [NT biomimetischer Werkstoff](#), [NT Chemiewerkstoff](#), [NT dispersionsehaltiger Werkstoff](#), [NT Funktionswerkstoff](#), [NT Grundwerkstoff](#), [NT Gusserwerkstoff](#), [NT hochfester Werkstoff](#), [NT korrosionsbeständiger Werkstoff](#), [NT Lötwerkstoff](#), [NT metallischer Werkstoff](#), [NT mikrokristalliner Werkstoff](#), [NT Modellwerkstoff](#)

Hierarchy: [Werkstoff](#) (adaptive Werkstoff), [artgleicher Werkstoff](#), [asbestfreier Stoff](#), [beschichteter Werkstoff](#), [biomimetischer Werkstoff](#), [Chemiewerkstoff](#), [dispersionsehaltiger Werkstoff](#), [Funktionswerkstoff](#), [Grundwerkstoff](#), [Gusserwerkstoff](#), [hochfester Werkstoff](#), [korrosionsbeständiger Werkstoff](#), [Lötwerkstoff](#), [metallischer Werkstoff](#), [mikrokristalliner Werkstoff](#), [Modellwerkstoff](#), [nanokristalliner Werkstoff](#), [nichtmetallischer Werkstoff](#), [nichtmagnetischer Werkstoff](#)

### Further questions? We are happy to help!

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Saturday 10 am - 2 pm  
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