

## Chameleon capable of orbiting

The satellites manufacturer, Airbus and the satellite operator Eutelsat have introduced the first chameleon satellites. This is capable of being placed in position from the earth. In addition to the radiating frequencies and the footprint named broadcasting area as for example also the alterable degree of longitude persists under the quantum on the equator.

Therefore, the satellite controls specially flexible hardware with itself. With this design satellite industry reacts upon the increasing turbulence of telecommunication markets. The principle is that when the requirement constantly changes, the satellite must alter itself constantly.

*Source: VDI nachrichten, 2 Marz 2018, Nr 9, Seite 3*

## Parking Place for Driverless Automobiles

The British airports estimate for the next four years a big number of driverless automobiles. Already at present the planners are preparing for parking places on the new requirement. The expectation that in the next years the automobiles will roll on the roads without drivers, compel the management of parking places already now to think radically. The parking space requirement as per estimation of the management should come down to 20% to 30% against the present and 20% of the drive in and the departure be saved.

Automobile manufacturer Audi in a project study for its park system of big saving potential suggests that only circular sloping way is required. With high precision driving maneuver the automatic automobiles get increasingly compacted. At the end there is no more getting down of any driver out of the car.

The airport management foresees that driverless automobile during the removal of the occupants automatically asked whether they leave the airport again or want to park. Possibly this is communicated through centrally controlled system with the vehicles. On induction loop line in the floor the control centre registers which parking places in fact are free and the vehicle turn towards that. Through automatic installation the releasing of the existing parking area in future should be optimized. For electronic automobiles also charging station and slide is thought of in floor so that the battery is charged with parking. On the basis of running vehicle movement also the parking fees can be calculated and that could be drawn out from the account of the vehicle owner.

In 2021 the management of British airports expects a bigger number of driverless automobiles. Considerations like these went in therefore already today in some space of time period parking place planning – says Cowan. During free surfaces along with induction slides and the central control only a new painting of the asphalt requires the modernization of parking houses is clearly more expensive.

The cost for the rise on the park house for the driverless cars should however in every case be compensated per car through short space requirement that in the past. Because automatic car also in the homelike garage can turn back and in future only with long driveway at the airport is parked.

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Ref: VDI nachrichten,