

June -2017

Rainbow Publications

ISSN 977 2394-6903

indexed in International Science index

General Impact Factor: 0.532

PAPER No : RJUNE-06

Spherical concept tire takes

AI on the road

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Abstract :

Good year unveiled a spherical tire concept known as the <u>Eagle 360</u>. Linked to the car using a magnetic levitat suspension system, a set of the tires would allow the vehicle to move in any direction even sideways. The concept a s further with the artificial-intelligence-packin Eagle 360 Urban. The "360 Urban's exterior consists of a sensor-lac rubber "bionic skin." This would allow it to continuously monitor road conditions, *and* adapt its tread accordingly. I new tire would do the latter via electrically-triggered actuators beneath its surface, which pull the individual tre elements in to form "dimples" in wet conditions, or pushes them out to form a smooth tread when the roads are d Using its artificial intelligence system, it could then learn what tread patterns work best in which conditions, and ap that knowledge in the future. The spherical tire is also designed to communicate via the internet with other vehicles t are running the same kind of tires. In this way, it could both transmit and receive data regarding conditions on the re ahead, allowing the tread to change proactively so it's ready for what's coming. Additionally, its "brains" would allow to detect when punctures occur. Should this happen, it could rotate itself so that the punctured section was no lon making contact with the road. Sealant would then flow out from within the tire, sealing the hole. They won't fit on regu cars, so compatible vehicles will have to be manufactured first.

Key Words: Magnetic levitation, artificial intelligence, urban's exterior.