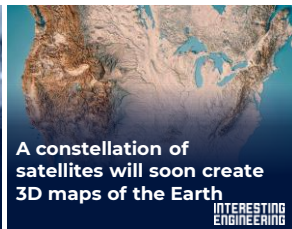


# TFC Weekly Update

05 May 2023

## Latest News

### Global News



### Local & Regional News



# Use of AI to analyze MRI scans leads to potential mind-reading capabilities

**Research published in Nature Neuroscience has shown that by using AI to analyze functional MRI data gathered from brain activity could possibly lead to reconstruction of perceived and imagined speech**

- On May 1<sup>st</sup> 2023, Nature Neuroscience published a research paper detailing the process by which a team was able to decode the gist of perceived and imagined speech using only functional MRI data.
- This is a major breakthrough into research on language decoding based on brain activity, as previous language decoding systems required surgical implants. Making this the first non-invasive method to decode language and read thoughts.
- The research involved study subjects listen to naturally spoken stories inside the functional MRI scanner for 16 hours in order to train the AI-decoder to match brain activity to meaning using a large language model.
- The study subjects were then scanned while listening to a new story or imagine telling a story for the AI-decoder to generate text from.
- While the AI couldn't match the exact words, it was able to detect the gist of the ideas and thoughts.

# Global Stock Market Indices

Indicator		Previous Value (as of 28 April)	Current Value (as of 5 May)
Dow Jones	(Point)	34,098.16	33,674.38 ▼
FTSE 100	(Point)	7,870.57	7,778.38 ▼
Brent Crude Oil Price	(USD)	80.256	75.3 ▼
SSE Composite Index	(Point)	3,323.27	3,334.50 ▲
FANG+ Index <small>(Big Tech Index)</small>	(Point)	6,119.18	6,163.75 ▲
Tadawul	(Point)	11,271.19	11,118.77 ▼
Software & Services (Tadawul)	(Point)	45,468.29	44,872.79 ▼
Telecommunications Services (Tadawul)	(Point)	8,096.33	7,883.47 ▼