Art is generally characterized by its ability to communicate emotion and by its mimesis, or representation of reality. The methods of some art forms can also be used in science for the sake of representing nature, specifically in forms that enable scientific insights.

Photography is arguably the most common art form used in Fluid Mechanics research. Over the years, many photography techniques have been utilized to depict flow phenomena that the human eye alone cannot fully comprehend.

Now, with the help of Artificial Intelligence, these prints are transformed to reach their full artistic potential, opening new avenues for insights and inspiration. A convolutional neural network is used to paint a picture that combines the content of one image with the style of another. This gallery illustrates the technique with pictures from An Album of Fluid Motion (Van Dyke 1982) in the style of five classic paintings:

"Imagine that Van Gogh, instead of looking to the night sky outside of his window at the Saint-Paul asylum, was able to look at other parts of nature for inspiration, such as a shock wave or flow instability."

Art is generally characterized by its ability to communicate emotion and by its mimesis, or representation of reality. The methods of some art forms can also be used in science for the sake of representing nature, specifically in forms that enable scientific insights.

Photography is arguably the most common art form used in Fluid Mechanics research. Over the years, many photography techniques have been utilized to depict flow phenomena that the human eye alone cannot fully comprehend.

Now, with the help of Artificial Intelligence, these prints are transformed to reach their full artistic potential, opening new avenues for insights and inspiration. A convolutional neural network is used to paint a picture that combines the content of one image with the style of another. This gallery illustrates the technique with pictures from An Album of Fluid Motion (Van Dyke 1982) in the style of five classic paintings:

"By combining the content of a scientific image with the style of a timeless masterpiece, we can get a glimpse into the artist's expression of classical fluid mechanics phenomena."