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A narrative of landmarks in computational fluid dynamics (CFD) is presented to highlight the cornerstone achievements. Illuminating accomplishments starting from the very beginning of the coherent development until the most recent progress will be elucidated over the span over more than

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six decades.

Landmarks and new frontiers of computational fluid dynamics

Computational fluid dynamics (or CFD) is a branch of fluid mechanics. Different types of numerical techniques and data structures used to examine various problems. Fluid flow (liquid or gas) can be described by the

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conservation laws for mass, momentum, and energy, which are governed by partial differential equations. In order to solve this problem computationally, it is necessary to replace ...

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The arriving of concurrent, high performance super computational technology provides an extraordinary opportunity for CFD to create many new science frontiers. The first and the straightforward opportunities are to address the most challenged and the least understood fluid dynamics phenomena such as the bifurcation,

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hysteresis, and turbulence.

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Landmarks and new frontiers of computational fluid dynamics

These new anatomical models represented the computational domain for the computational fluid dynamics (CFD) study; simulations of the hemodynamics within the LA and LAA were performed in order to

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evaluate the interplay of the LAA shape on the blood flow characteristics in AF condition. CFD simulations were carried out for five cardiac cycles.

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computational fluid dynamics (CFD) in combination with 4D flow MRI [7–10]. CFD simulations are computed by solving the continuity equation and Navier-Stokes equation within the region of interest.

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Computational fluid dynamics has

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Background: Although wall shear stress (WSS) and pressure play

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important roles in plaque vulnerability, characteristics of the two indices in intracranial atherosclerosis (ICAS) have not been fully investigated yet. This study aimed to elucidate this issue by means of establishing a non-invasive computational fluid dynamics method with time-of-flight magnetic resonance angiography (TOF-MRA) of ...

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