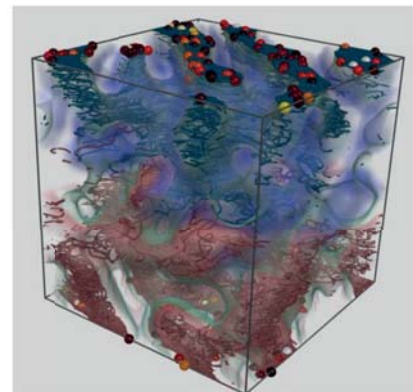
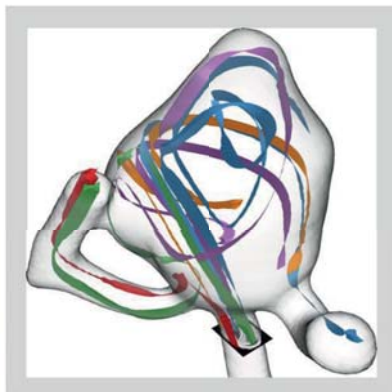
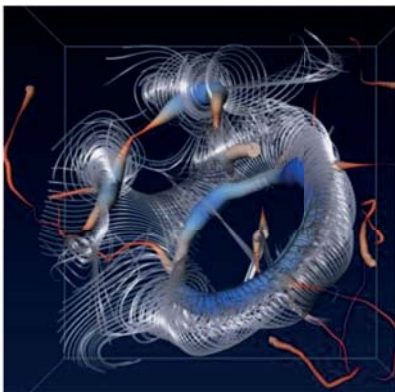


Visualizing line-like features – Cleaning up the mess

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One of the major challenges in scientific visualization is to deal with the huge amount of information contained in scientific data. A typical concept in visualization refers to the notion of dominant or important features as basis for the visualization. However, there is often still a high feature density overwhelming the user and unfortunately there doesn't exist a silver bullet to solve this challenge for all cases. Solutions must be found in close collaboration with the domain experts generating the data specifically targeted

to their needs. Though there are tools and concepts that can be adapted to many applications. In this talk I will look at three different applications where line-like structures play an important role and talk about our visualization solutions within the application context and what we possibly can learn from it. The applications are from the area of computational fluid dynamics, simulation of charge transport in solar cells and blood flow measurements.