Computational Fluid Dynamics II

Poster List

1. **Numerical modeling of flow-diverter stents in cerebral aneurysms**
   Augusto Fava Sanches, University of Heidelberg

2. **Large-eddy simulation of three-dimensional vortex structures and micro-particle transport and deposition in an idealized mouth-throat model**
   Ali Farnoud, University of Heidelberg

3. **Transport and deposition of anisotropic aerosols in pulmonary acinar shear flows**
   Yan Ostrovski Technion - Israel Institute of Technology

4. **A macroscopic model to study mucociliary clearance in complex geometries: Predicting optimal ciliary forcing patterns**
   Michail Manolidis, University of Michigan

5. **Aerosols in healthy and emphysematous in silico acinar models**
   Jessica Oakes, University of California Berkeley

6. **Respiratory therapies of the developing lungs: Inhaled aerosols delivery during early childhood**
   Janna Tenenbaum-Katan, Technion, Israel Institute of Technology

7. **Wave propagation-based cardiovascular monitoring and assessment**
   Nikos Stergiopulos. EPFL

8. **The Influence of a unilateral carotid artery stenosis on brain oxygenation**
   Tobias Koeppl, Universität Stuttgart

9. **Morphometry and hemodynamics of porcine coronary venous tree**
   Hao Wu, Peking University

10. **Hemodynamic analysis of patient-specific internal mammary artery bypass grafts**
    Tingting Fan, PKU

11. **Hemodynamic analysis of patient-specific vertebro-basilar junction and basilar bifurcations**
    Yundi Feng, Peking University

12. **Biomedical microfluidic devices by using low cost fabrication techniques: a review**
    Alberto Gambaruto, Minho University

13. **4D phase contrast MRI derived hemodynamics of the rabbit aortic arch**
    David Molony, Georgia Institute of Technology

14. **A coupled release-absorption model for drug-eluting stent systems**
    Giuseppe Pontrelli, IAC-CNR

15. **Parameter estimation in models of circulation for patient-specific haemodynamics**
    Sanjay Pant, Inria Paris-Rocquencourt

16. **Biophysical study of hyposmia after nasal surgery by CFD**
    Sung Kyun, Kim Konkuk University
17. Uncertainty quantification of boundary conditions for CFD simulations of a rabbit aorta
    Michael McElroy, Manchester Metropolitan University

18. A numerical model for inert gas transport in the lung based on a fractal airway morphology
    David Hasler, ARTORG Center, University of Bern

19. Interventional planning and outcome prediction for arteriovenous malformation therapy
    Sabrina Frey, University of Bern

20. On transitional flow in intracranial aneurysms - critical Re, cyclic variations, vasculature and aneurysm morphology
    Kartik Jain, University of Siegen

21. On the data assimilation problem in blood flow simulations
    Telma Guerra, CEMAT, EstBarreiro-IPSetubal

22. Transitional flow in patient-specific arteriovenous fistulae for hemodialysis
    Andrea Remuzzi, University of Bergamo

23. An assessment of 3D ultra-sound derived geometry versus computerised tomography techniques for abdominal aortic aneurysms
    Benjamin Owen, The University of Manchester

    Joseph M. O'Connor, University of Manchester

25. Automated microfluidic optimization to reduce blood cell activation
    Markus Gusenbauer Danube University Krems, Center for Integrated Sensor Systems

26. Hemodynamic analysis of patient-specific vertebro-basilar junction and basilar bifurcations
    Yundi Feng, Peking University

27. Morphometry and hemodynamics of porcine coronary venous tree
    Hao Wu, Peking University

28. Hemodynamics at different stages of patient-specific stenotic carotid artery bifurcation
    Yunlong Huo, Peking University

29. Medical images pre-processing and its impact on the computational hemodynamics
    Ana J. Joao, Instituto Superior Tecnico

30. Numerical simulation of flow field inside a coral colony
    Anne Staples, Virginia Tech

31. How techniques from image processing could improve climate and weather prediction
    Anne Staples, Virginia Tech

32. Blood perfusion in microfluidic models of pulmonary capillary networks
    Hagit Stauber, Technion-Israel Institute of Technology
33. Enhancing pulmonary acinar deposition using magnetic particles: Insight from CFD simulations
   Yan Ostrovski, Technion

34. Patient-specific planning for cerebral aneurysm treatment using CFD with finite element endovascular device models
   Priya Nair, Arizona State University

35. The parametric study of a spiral-inducing bypass graft using Computational Fluid Dynamics
   Andres Ruiz-Soler, School of Engineering, Manchester Metropolitan University

36. High- vs. normal-resolution Cfd for transitional flow in the vascular access
   Bogdan Ene-Iordache, IRCCS - Istituto di Ricerche Farmacologiche

37. Flow characteristics of the upper human lung airways
   Katrin Bauer, TU-Bergakademie Freiberg

38. Process of cell-free layer formation after arteriolar bifurcation and its effect on NO/O2 diffusion
    Yan Cheng Ng, National University of Singapore

39. Particle-based simulation study of red blood cell flow in capillary bifurcations using open inflow/outflow boundary conditions
    Kirill Lykov, University of Lugano