

PUBLICATIONS

Journal Papers

1. Khan A, Patel J, Desikan S, Chrencik M, Martinez-Delcid J, Caraballo B, Anthony L, Yokemick J, Sorkin J, **Cebral** JR, Sikdar S, Lal BK, "Asymptomatic carotid artery stenosis is associated with cerebral hypoperfusion", *J. Vasc. Surg.* 2020 - [accepted](#).
2. Hadad S, Mut F, Chung BJ, Roa JA, Robertson AM, Hassan DM, Samaniego EA, **Cebral** JR, "Regional aneurysm wall enhancement is affected by local hemodynamics: a 7T MRI study", *AJNR* 2020 – [in review](#).
3. Salimi Ashkezari SF, Detmer F, Mut F, Chung BJ, Yu A, Stapleton C, Pokmeng AS, Amin-Hanjani, Charbel F, Rezai Jahromi, Niemela M, Frosen J, Zhou J, Maiti S, Robertson AM, **Cebral** JR, "Hemodynamics in aneurysm blebs with different wall characteristics", *JNIS* 2020 – [in review](#).
4. Salimi Ashkezari SF, Mut F, Chung BJ, Robertson AM, **Cebral** JR, "Analysis of hemodynamic changes from aneurysm inception to large sizes" *IJNMBE*, 2020 – [in review](#).
5. Salimi Ashkezari SF, Detmer F, Mut F, Chung BJ, Yu A, Stapleton C, Pokmeng AS, Amin-Hanjani, Charbel F, Rezai Jahromi, Niemela M, Frosen J, Zhou J, Maiti S, Robertson AM, **Cebral** JR, "Blebs in intracranial aneurysms: prevalence and general characteristics", *JNIS* 2020 (DOI: 10.1136/neurointsurg-2020-016369) – [in press](#).
6. Salimi Ashkezari SF, Mut F, Chung BJ, Robertson AM, **Cebral** JR, "Hemodynamic conditions that favor bleb formation in cerebral aneurysms", *JNIS* 2020 (DOI: 10.1136/neurointsurg-2020-016274) – [in press](#).
7. Detmer F, Mut F, Slawski M, Hirsch S, Bijlenga P, **Cebral** JR, "Incorporating variability of patient inflow conditions into statistical models for aneurysm rupture assessment", *Acta Neurochirurgica*, 162(3): 553-566, 2020 (DOI: 10.1007/s00701-020-04234-8).
8. Leemans EL, Cornelissen BMW, Slump CH, Majoie CBLM, **Cebral** JR, Marquering HA, "Hemodynamic environment in stable and growing intracranial aneurysms", *AJNR* 2019 – [accepted](#).
9. **Cebral** JR, Chung BJ, Mut F, Chudyk J, Bleise C, Scrivano E, Lylyk P, Kadirvel R, Kallmes D, "Analysis of flow dynamics and outcomes of cerebral aneurysms treated with intravascular flow diverting devices", *AJNR* 40(9), 1511-1516, 2019 (DOI: 10.3174/ajnr.A6169).
10. Detmer F, Luckehe D, Mut F, Slawski M, Hirsch S, Bijlenga P, von Voigt G, **Cebral** JR, "Comparison of statistical learning approaches for cerebral aneurysm rupture assessment", *Int J Comp Assist Radiol Surg (IJCARS)*, 15(1): 141-150, 2020 (DOI: 10.1007/s11548-019-02065-2).
11. Detmer F, **Cebral** RJ, Slawski M, "A Note on coding and standardization of categorical variables in (sparse) group lasso regression", *J Stat Planning and Inference*, 206: 1-11, 2020 (DOI: 10.1016/j.jspi.2019.08.003).
12. Gade P, Tulamo R, Lee K, Mut F, Ollikainen E, Chuang CY, Chung BJ, Niemela M, Rezai-Jahromi B, Aziz K, Yu A, Charbel F, Amin-Hanjani S, Frosen J, **Cebral** JR, Robertson A, "Calcification in human intracranial aneurysms is highly prevalent and displays both atherosclerotic and non-atherosclerotic types", *Atherosclerosis, Thrombosis and Vascular Biology (ATVB)*, 39(10): 2157-2167, 2019.
13. Ravindran K, Casabella AM, **Cebral** JR, Brinjikji W, Kallmes D, Kadirvel R, "Mechanism of action and biology of flow diverters in the treatment of intracranial aneurysms", *Neurosurgery*, 86(Supplement 1): S13-19, 2020 (DOI: 10.1093/neuros/nyz324).
14. Berg P, Voss S, Janiga G, Saalfeld S, Bergersen A, Valen-Sendstad K, Bruening J, Goubergrits K, Spuler A, Chiu TL, Tsang AC, Copelli G, Csippa B, Paal G, Zavodszky G, Detmer F, Chung BJ, **Cebral** JR, Fujimura S, Takao H, karmonik C, Elias S, Cancelliere N, Najafi M, Steinman DA, Pereira V, Piskin S, Finol E, Pravdivtseva M, Velvaluri P, Rajabzadeh-Oghaz H, Paliwal N, Meng H, Seshadri S, Venguru S, Shojima M, Sindeev S, Frolov S, Qian Y, Wu YA, Carlson KD, Kallmes D, Dragomir-Daescu D, Beuing O, "Multiple Aneurysms AnaTomy Challenge 2018 (MATCH) – Phase II: Rupture Risk Assessment", *Int J Comp Assist Radiol Surg*, 14(10): 1795-1804, 2019 (DOI: 10.1007/s11548-019-01986-2).
15. Frosen J, **Cebral** JR, Robertson AM, Aoki T, "Flow-induced, inflammation-mediated arterial wall remodeling in the formation and progression of intracranial aneurysms", *Neurosurg Focus*, 47(1): E21, 2019 (DOI: 10.3171/2019.5.FOCUS19234).
16. Detmer F, Hadad S, Chung BJ, Mut F, Slawski M, Juchler N, Hirsch S, Bijlenga P, Uchiyama Y, Fujimura, Yamamoto, Murayama U, Takao H, Koivisto T, Frosen J, **Cebral** JR, "Extending statistical learning for aneurysm rupture assessment to Finnish and Japanese populations using morphology, hemodynamics, and patient characteristics", *Neurosurg Focus*, 47(1):E16, 2019 (DOI: 10.3171/2019.4.FOCUS19145).
17. Mut F, Chung BJ, Chudyk J, Lylyk P, Kadirvel R, Kallmes D, **Cebral** JR, "Image-based modeling of blood flow in cerebral aneurysms treated with intrasaccular flow diverting devices", *Int J Num Methd Biomed Eng*, 35(6): e3202, 2019 (DOI: 10.1002/cnm.3202)

18. **Cebtral** JR, Detmer F, Chung BJ, Choque-Velasquez J, Rezai B, Lehto H, Tulamo R, Hernesniemi J, Niemela M, Yu A, Williamson R, Aziz K, Sakur S, Amin-Hanjani S, Charbel F, Tobe Y, Robertson A, Frosen J, "Local hemodynamic conditions associate with focal changes in the intracranial aneurysm wall", *Am J Neuro Radiol*, 40(3): 510-516, 2019 (DOI: 10.3174/ajnr.A5970).
19. Detmer FJ, Chung BJ, Jimenez C, Hamzei-Sichani F, Kallmes D, Putman C, **Cebtral** JR, "Association of hemodynamics, morphology, and patient characteristics with aneurysm rupture stratified by aneurysm location", *Neuroradiology*, 61: 275-284, 2019 (DOI: 10.1007/s00234-018-2135-9)
20. Parameswaran PK, Dai D, Hong DY, Urban M, Manlove L, Venkatachalem S, **Cebtral** JR, Kallmes D, Kadirvel R, "Downstream vascular changes after flow diverting device deployment in a rabbit model", *J Neuroint. Surg.*, 11(5): 523-527, 2019 (DOI: 10.1136/neurointsurg-2018-014123).
21. Detmer F, Fajardo-Jimenez D, Mut F, Juchler N, Hirsch S, Bijlenga P, **Cebtral** JR, "External validation of cerebral aneurysm rupture probability model with data from two patient cohorts" *Acta Neurochirurgica*, 160(2): 2452-2434, 2018 (DOI: 10.1007/s00701-018-3712-8).
22. Berg P, Vos S, Saalfeld S, Janiga G, Bergersen AW, Valen-Sendstad K, Bruening J, Goubergrits L, Spuler A, Cancelliere NM, Steinman DA, Pereira VM, Chiu TL, Chun On Tsang A, Chung JB, **Cebtral** JR, Cito S, Pallarès J, Copelli G, Csippa B, Paál G, Fujimura S, Takao H, Hodis S, Hille G, Karmonik C, Elias S, Kellermann K, Khan MO, Marsden AL, Morales HG, Piskin S, Finol EA, Pravdivtseva M, Rajabzadeh-Oghaz H, Paliwal N, Meng H, Seshadhri S, Shojima M, Sugiyama S, Niizuma K, Sindeev S, Frolov S, Wagner T, Brawanski A, Yi Q, Wu YA, Carlson KD, Daescu DD, Beuing O, "Multiple Aneurysms AnaTomy CHallenge 2018 (MATCH) - Phase I: Segmentation", *Cardiovascular Engineering and Technology (CVET)*, 9(4): 565-581, 2018 (DOI: 10.1007/s13239/-018-00376-0)
23. Detmer F, Chung BJ, Mut F, Slawski M, Hamzei-Sichani F, Putman C, Jimenez C, **Cebtral** JR, "Development and internal validation of an aneurysm rupture probability model based on patient characteristics and aneurysm location, morphology, and hemodynamics", *Int. J. Comp. Assist. Radiol. Surg. (IJCARS)*, 13(11): 1767-1779, 2018 (DOI: 10/1007/s11548-018-1837-0).
24. **Cebtral** JR, Mut F, Gade P, Cheng F, Tobe Y, Frosen J, Robertson AM, "Combining data from multiple sources to study mechanisms of aneurysm disease: tools and techniques", *IJNMBE*, 34(11): e3133, 2018 (DOI: 10.1002/cnm.3133).
25. Chung BJ, Mut F, Putman C, Hamzei-Sichani F, Brinjiki W, Kallmes D, Jimenez C, **Cebtral** JR, "Identification of hostile hemodynamics and geometries of cerebral aneurysms: a case-control study", *AJNR*, 39(10): 1860-1866, 2018 (DOI: 10.3174/ajnr.A5764).
26. Detmer FJ, Chung BJ, Mut F, Pritz M, Slawski M, Hamzei-Sichani F, Kallmes D, Putman C, Jimenez C, **Cebtral** JR, "Development of a statistical model for discrimination of rupture status in posterior communicating artery aneurysms", *Acta Neurochirurgica*, 160(8): 1643-1652, 2018 (DOI: 10.1007/s00701-018-3595-8).
27. Brinjiki W, **Cebtral** JR, "Hemodynamic characteristics of stable and unstable vertebrobasilar dolichoectatic and fusiform aneurysms" *JNIS*, 10(11): 1102-1107, 2018 (DOI: 10.1136/neurointsurg-2018-013756).
28. Durka M, Wong IH, Kallmes D, Pasalic D, Mut F, Jagani M, Blanco P, **Cebtral** JR, Robertson AM, "A data driven approach for addressing the lack of flow waveform data in studies of cerebral arterial flow in older adults", *Phys. Meas.* 39(1):015006, 2018 (DOI: 10.1088/1361-6579/aa9f46).
29. Doddasomayajula R, Chung BJ, Mut F, Jimenez C, Hamzei-Sichani F, Putman C, **Cebtral** JR, "Hemodynamic characteristics of ruptured and unruptured multiple aneurysms at mirror and ipsilateral locations", *AJNR*, 38(12), 2301-2307, 2017 (DOI: 10.3174/ajnr.A5397)
30. Chung BJ, Doddasomayajula R, Mut F, Detmer F, Pritz M, Hamzei-Sichani F, Brinjiki W, Kallmes D, Jimenez C, Putman C, **Cebtral** JR, "Angioarchitectures and hemodynamics characteristics of posterior communicating artery aneurysms and their association with rupture status", *AJNR*, 38(11): 2111-2118, 2017 (DOI: 10.3147/ajnr.A5358).
31. **Cebtral** JR, Mut F, Chung BJ, Spelle L, Moret J, van Nijnatten F, Ruijters D, "Understanding angiography-based aneurysm flow fields through comparison to computational fluid dynamics", *AJNR*, 38(6), 1180-1186, 2017 [nominated for 2016 Lucien Levy Best Research Article Award].
32. Doddasomayajula R, Chung BJ, Hamzei-Sichani F, Putman CM, **Cebtral** JR, "Differences in hemodynamics and rupture rate of aneurysms at the bifurcation of the basilar and internal carotid arteries", *AJNR* 38(3), 570-576, 2017 (DOI: 10.3174/ajnr.A5088).
33. Khan AA, Sikdar S, Hatsukami T, **Cebtral** JR, Jones M, Huston J, Howard G, Lal BK, "Noninvasive characterization of carotid plaque strain", *J. Vasc. Surg.*, 65(6): 1653-1663, 2017 (DOI: 10.1016/j.jvs.2016.12.105).

34. **Cebtral** JR, Ollikainen E, Chung BJ, Mut F, Sippola V, Jahromi BR, Tulamo R, Hernesniemi J, Niemela M, Robertson A, Frosen J, "Flow conditions in intracranial aneurysm lumen associate with inflammation and degenerative changes of the aneurysm wall", *AJNR* 38(1): 119-126, 2017 (DOI: 10.3174/ajnr.A4951).
35. Salvador-Morales C, Brahmhatt B, Marques-Miranda V, Aryan-Duran I, Canan J, Gonzalez-Nilo F, Vilos C, **Cebtral** JR, Mut F, Lohner R, Leong B, Sundaresan G, Zweit J, "Mechanistic studies of the self-assembly of PLGA patchy particles and their potential applications in biomedical imaging", *Langmuir*, 32(31): 7929-42, 2016 (DOI: 10.1021/acs.langmuir.6b02177).
36. **Cebtral** JR, Duan X, Gade PS, Chung BJ, Mut F, Aziz K, Robertson AM, "Regional mapping of flow and wall characteristics of intracranial aneurysms", *ABME*, 44(12): 3553-3567, 2016 (DOI: 10.1007/s10439-016-1682-7).
37. Rouchaud A, Ramana C, Brinjikji W, Ding YH, Dai D, Gunderson T, **Cebtral** JR, Kallmes D, Kadirvel R, "Wall apposition is a key factor for aneurysm occlusion after flow diversion: a histological evaluation in 41 rabbits", *AJNR*, 37(11): 2087-2091, 2016 (DOI: 10.3174/ajnr.A4848).
38. Brinjikji W, Chung BJ, Jimenez C, Putman CM, Kallmes DF, **Cebtral** JR, "Hemodynamics differences between unstable and stable unruptured aneurysms independent of size and location: pilot study", *JNIS*, 9(4), 376-380, 2017 (DOI: 10.1136/neurointsurg-2016-012327).
39. Theielen E, McClure M, Rouchaud A, Ding YH, Dai D, Schroeder D, **Cebtral** JR, Kallmes D, Kadirvel R, "Concomitant coiling reduces metalloproteinases levels in flow diverter-treated aneurysms but anti-inflammatory treatment with cyclosporine has no effect", *JNIS*, 9(3), 307-310, 2016 (DOI: 10.1136/neurintsurg-2015-012207).
40. Rouchaud A, Johnson C, Theielen E, Ding YH, Schroeder D, Dai D, Brinjikji W, **Cebtral** JR, Kallmes D, Kadirvel R, "Differential gene expression in coiled versus flow diverter-treated aneurysms: a RNA sequencing analysis in rabbit aneurysms model". *AJNR*, 37(6): 1114-21, 2016 (DOI: 10.3174/ajnr.A4648).
41. Oeltze-Jafra S, **Cebtral** JR, Janiga G, Preim B, "Cluster analysis of vortical flow in simulations of cerebral aneurysms hemodynamics", *IEEE Trans Vis Comput Graph*, 22(1): 757-766, 2016 (DOI: 10.1109/TVCG.2015.2467203)
42. Rasheed N, Khorasani A, **Cebtral** JR, Mut F, Lohner R, Salvador Morales C, "Mechanisms involved in the formation of biocompatible lipid polymeric hollod patchy particles", *Langmuir Journal*, 31(24): 6639-6648, 2015.
43. **Cebtral** JR, Duan X, Chung BJ, Putman CM, Aziz K, Robertson A, "Wall mechanical properties and hemodynamics of unruptured intracranial aneurysms", *AJNR* 36(9): 1695-1703, 2015 (DOI: 10.3174/ajnr.A4358). [nominated for Lucien Levy best research paper award 2015 AJNR]
44. Berg P, Roloff C, Beuing O, Sugiyama SI, Aristokleus N, Anayiotos A, Ashton N, Bressloff N, Brown A, Chung BJ, **Cebtral** JR, Copelli G, Fu W, Qiao A, Geers A, Hodis S, Dragomir-Daescu D, Imdieke E, Khan M, Valen-Sendstad, Kono K, Meng H, Xiang J, Menon P, Albal P, Mierka O, Munster R, Morales H, Osman J, Goubergrits L, Pallares J, Cito S, Passalacqua A, Piskin S, Pekkan K, Ramalho S, Marques N, Sanchi S, Schumacher K, Sturgeon J, Svihlova H, Hron J, Usera G, Mendina M, Steinman D, Janiga G, "The Computational Fluid Dynamics Rupture Challenge 2013 – Phase II: Variability of hemodynamic simulations in two intracranial aneurysms", *J Biomech Eng*, 137(12): 121008 (DOI: 10.1115/1.4031794) 2015.
45. Robertson A, Duan X, Aziz K, Hill M, Watkins S, **Cebtral** JR, "Diversity in the strength and structure of unruptured cerebral aneurysms", *ABME* 43(7): 1502-1515, 2015 (DOI 10.1007/s10439-015-1252-4).
46. Hodis S, Ding YH, Dai D, Lingineni R, Mut F, **Cebtral** JR, Kallmes D, Kadirvel R, "Relationship between aneurysm occlusion and flow diverting device oversizing in a rabbit model", *JNIS* 8(1): 94-98, 2016 (DOI: 10.1136/neuintsurg-2014-011487).
47. Sforza D, Kono K, Tateshima S, Vinuela F, Putman CM, **Cebtral** JR, "Hemodynamics in growing and stable cerebral aneurysms", *JNIS*, 8(4): 407-412, 2016 (DOI: 10.1136/neurointsurg-2014-011339)
48. Puffer C, Dai D, Ding YH, **Cebtral** JR, Kallmes D, Kadirvel R, "Gene expression comparison of flow diversion and coiling in an experimental aneurysm model", *J NeuroInterv Surg* 7(12): 926-930, 2015 (DOI: 10.1136/neurintsurg-2014-011452).
49. Chung B, Mut F, Kadirvel R, Lingineni R, Kallmes D, **Cebtral** JR, "Hemodynamic analysis of fast and slow occlusions by flow diversion in rabbit models", *J NeuroInterv Surg* 7(12): 931-935, 2015 (DOI: 10.1136/neurointsurg-2014-011412).
50. Castro MA, Ahumada Olivares MC, Putman CM, **Cebtral** JR, "Unsteady wall shear stress analysis from image-based computational fluid dynamic aneurysm modes under Newtonian and Casson rheological models", *Med Biol Eng Comput*, 52(10): 827-839, 2014 (DOI 10.1007/s11517-014-1189-z)

51. Chung B, **Cebral** JR, “CFD for evaluation and treatment planning of aneurysms: review of proposed clinical uses and their challenges”, *Ann Biomed Eng*, 43(1): 122-138, 2015 (DOI 10.1007/s10439-014-1093-6)
52. **Cebral** JR, Vazquez M, Sforza DM, Houzeaux G, Tateshima S, Scrivano E, Bleise C, Lylyk P, Putman CM, “Analysis of hemodynamics and wall mechanics at sites of cerebral aneurysm rupture”, *J NeuroIntervent Surg*, 7: 530-536, 2015 (DOI 10.1136/neurintsurg-2014-011247)
53. Mut F, Raschi M, Scrivano E, Bleise C, Chudyk J, Ceratto R, Lylyk P, **Cebral** JR, “Association between hemodynamic conditions and occlusion times after flow diversion in cerebral aneurysms”, *JNIS*, 7(4), 286-290, 2015 (DOI: 10.1136/neurintsurg-2013-011080) [images in cover]
54. **Cebral** JR, Mut F, Raschi M, Hodis S, Ding YH, Erickson BJ, Kadirvel R, Kallmes D, “Analysis of hemodynamics and aneurysm occlusion after flow diverting treatment in rabbit models”, *AJNR* 35(8): 1567-1573, 2014 – (DOI: 10.3174/ajnr.A3913).
55. **Cebral** JR, Raschi M, Mut F, Ding YH, Dai D, Kadirvel R, Kallmes D, “Analysis of flow changes in side branches jailed by flow diverters”, *IJNBME*, 30(10): 988-999, 2014 (DOI: 10.1002/cnm.2640).
56. **Cebral** JR, Mut F, Raschi M, Ding YH, Kadirvel R, Kallmes D, “Strategy for analysis of flow diverting devices based on multi-modality image-based modeling”, *IJNBME*, 30(10), 951-968, 2014 (DOI: 10.1002/cnm.2638)
57. Byrne G, Gilmore R, **Cebral** JR, “Connecting curves in higher dimensions”, *J. Phys. A: Math. Theor.*, 47: 215101, 2014 (DOI: 10.1088/1751-8113/47/21/215101)
58. Byrne G, Mut F, **Cebral** JR, “Vortex dynamics in intracranial aneurysms”, *Journal of Applied Mathematics*, arXiv: 1309.7875 [nlin.PS], 2013.
59. Raschi M, Mut F, Lohner R, **Cebral** JR, “Strategy for modeling flow diverters in cerebral aneurysms with porous medium”, *IJNBME*, 30(9): 909-925, 2014 (DOI: 10.1002/cnm.2635).
60. Mut F, Wright S, Ascoli GA, **Cebral** JR, “Morphometric, geographic and territorial characterization of brain arterial trees”, *IJNBME*, 30(7): 755-766, 2014 (DOI 10.1002/cnm.2627).
61. Mut F, Scrivano E, Bleise C, Lylyk P, **Cebral** JR, “Hemodynamics in two tandem aneurysms treated with flow diverters”, *IJNBME* 30(4): 517-524, 2014 (DOI 10.1002/cnm.2614).
62. Byrne G, Mut F, **Cebral** JR, “Quantifying the large-scale hemodynamics of intracranial aneurysms”, *American Journal of Neuroradiology*, 35(2): 333-338, 2014 (DOI 10.3174/ajnr.A3678)
63. Mut F, Ruijters D, Babic D, Bleise C, Lylyk P, **Cebral** JR, “Effects of changing physiologic conditions on the in vivo quantification of hemodynamic variables in cerebral aneurysms treated with flow diverting devices”, *IJNBME*, 30(1): 135-142, 2014.
64. Wright S, Kochunov P, Mut F, Bergamino M, Brown K, Mazziotta J, Toga A, **Cebral** JR, Ascoli G, “Digital reconstruction and morphometric analysis of human brain arterial vasculature from magnetic resonance angiography”, *NeuroImage*, 82: 170-181, 2013.
65. **Cebral** JR, Raschi M, “Suggested connections between risk factors of intracranial aneurysms: a review”, *Annals of Biomedical Engineering*, 41(7): 1366-1383, 2013 (DOI: 10.1007/s10439-012-0723-0)
66. Mut F, **Cebral** JR, “Effects of flow diverting device oversizing on hemodynamics alteration in cerebral aneurysms” *AJNR* 33(10):2010-2016, 2012 (DOI: 10.3174/ajnr.A3080).
67. **Cebral** JR, Meng H, “Counterpoint: Realizing the Clinical Utility of Computational Fluid Dynamics – Closing the Gap”, *AJNR* 33(3): 396-398, 2012 (DOI: 10.3147/ajnr.A2994)
68. Sforza D, Putman CM, **Cebral** JR, “Computational Fluid Dynamics (CFD) in Brain Aneurysms”, *IJNBME*, 28 (6-7): 801-808, 2012 (DOI: 10.1002/cnm.1481).
69. Sforza D, Putman CM, Tateshima S, Viñuela F, **Cebral** JR, “Effects of peri-aneurysmal environment during the growth of cerebral aneurysms: a case study”, *AJNR*, 33:115-120, 2012 (DOI: 10.3147/ajnr.A2908)
70. Raschi M, Mut F, Byrne G, Putman CM, Tateshima S, Viñuela F, Tanoue T, Tanishita K, **Cebral** JR, “CFD and PIV analysis of hemodynamics in a growing intracranial aneurysm”, *IJNBME*, 28(2): 214-228, 2012 (DOI: 10.1002/cnm.1459, 2011)
71. **Cebral** JR, Mut F, Weir J, Putman CM, “Quantitative characterization of the hemodynamic environment in ruptured and unruptured brain aneurysms”, *AJNR*: 32(1), 145-152, 2011 (DOI 10.3174/ajnr.A2419)
72. Mut F, Löhner R, Chien A, Tateshima S, Viñuela F, Putman CM, **Cebral** JR, “Computational hemodynamics framework for the analysis of cerebral aneurysms”, *IJNBME* 27(6): 822-839, 2011 (DOI 10.1002/cnm.1424) (PMCID: PMC3106350, NIHMSID: NIHMS252678)
73. **Cebral** JR, Mut F, Weir J, Putman CM, “Association of hemodynamic characteristics and cerebral aneurysm rupture”, *AJNR*, 32(2): 264-270, 2011 (DOI 10.3174/ajnr.A2274).

74. **Cebral** JR, Mut F, Raschi M, Scrivano E, Lylyk P, Putman CM, "Aneurysm rupture following treatment with flow diverting stents: computational hemodynamics analysis of treatment", *AJNR*: 32(1), 27-33, 2011 (DOI 10.3174/ajnr.A2398)
75. **Cebral** JR, Mut F, Sforza D, Löhner R, Scrivano E, Lylyk P, Putman CM, "Clinical application of image-based CFD for cerebral aneurysms", *IJNMBE*, 27(7): 977-992, 2011 (DOI: 10.1002/cnm.1373, 2010).
76. Tateshima S, Chien A, Sayre J, **Cebral** J, Viñuela F, "The effect of aneurysm geometry on the intra-aneurysmal flow condition", *Neuroradiology*, 52(12): 1135-1141, 2010.
77. Oubel E, DeCraene M, **Cebral** JR, Blasco J, Macho J, Putman CM, Blanc R, Frangi A, "Wall motion estimation in intracranial aneurysms", *Phys. Meas.* 31, 1119-1135, 2010.
78. Sforza D, Löhner R, Putman C, **Cebral** J, "Hemodynamic analysis of intracranial aneurysms with moving parent arteries: basilar tip aneurysms", *IJNMBE*, 26(10): 1219-1227, 2010 (DOI: 10.1002/cnm.1385).
79. Sforza D, Putman CM, Scrivano E, Lylyk P, **Cebral** JR, "Blood flow characteristics in a terminal basilar tip aneurysm prior to its fatal rupture", *AJNR*, 31:1127-1131, 2010 (DOI: 10.3147/ajnrA2021).
80. Mut F, Aubry R, Löhner R, **Cebral** JR, "Fast numerical solutions in patient-specific simulations of arterial models", *IJNMBE* 26(1): 73-85, (DOI 10.1002/cnm.1235), 2010.
81. **Cebral** JR, Sheridan M, Putman CM, "Hemodynamics and bleb formation in intracranial aneurysms", *AJNR* (10.3174/ajnr.A1819, October 1, 2009), 31(2): 304-310, 2010.
82. **Cebral** JR, "Progress in CFD for Bioengineering Modeling", *Int J CFD*, 23(8): 567-568, 2009.
83. Castro M, Putman C, Radaelli A, Frangi A, **Cebral** JR, "Hemodynamics and rupture of terminal cerebral aneurysms", *Acad Radiol*, 16(10): 1201-1207, 2009 .
84. **Cebral** JR, Putman CM, Alley M, Hope T, Bammer R, Calamante F, "Hemodynamics in Normal Cerebral arteries: qualitative comparison of 4D phase-contrast magnetic resonance and image-based computational fluid dynamics", *J. Eng. Math, Special Issue on Mathematical Modeling in Health and Medicine*, 64(4): 367-378, 2009.
85. Appanaboyina S, Mut F, Löhner R, Putman CM, **Cebral** JR, "Simulation of intracranial aneurysm stenting: techniques and challenges", *CMAME* 198 (45-46): 3567-3582, 2009 (DOI 10.1016/j.cma.2009.01.017).
86. Chien A, Castro MA, Tateshima S, Sayre J, **Cebral** J, Viñuela F, "Quantitative hemodynamic analysis of brain aneurysms at different locations", *AJNR* 30(8): 1507-1512, 2009 (DOI: ajnr.A1600v1-0).
87. Chien A, Tateshima S, Sayre J, Castro M, **Cebral** JR, Viñuela F, "Patient-specific hemodynamic analysis of small internal carotid artery-ophthalmic artery aneurysms", *Surg Neurol* (PMID: 19329152), 2009.
88. Castro MA, Putman CM, Sheridan M, **Cebral** JR, "Hemodynamic patterns of anterior communicating artery aneurysms: a possible association with rupture", *AJNR* 30(2): 297-302 (PMID: 19131411), 2009.
89. **Cebral** JR, Hendrickson S, Putman CM, "Hemodynamics in a lethal basilar artery aneurysm just before its rupture", *AJNR* 30: 95-98, (PMID: 18818279), 2009.
90. Appanaboyina S, Mut F, Löhner R, Scrivano E, Miranda C, Lylyk P, Putman CM, **Cebral** JR, "Computational modeling of blood flow in side arterial branches after stenting of intracranial aneurysms", *Int J CFD*, 22(10), 669-676, 2008.
91. Chien A, Tateshima S, Castro M, Sayre J, **Cebral** JR, Viñuela F, "Patient-specific flow analysis of brain aneurysms at a single location: comparison of hemodynamic characteristics in small aneurysms", *Med Biol Eng Comput* 46(11): 1113-1120, 2008.
92. Radaelli AG, Ausburger L, **Cebral** JR, Ohta M, Rüfenacht DA, Balossino R, Benndorf G, Hose DR, Marzo A, Metcalfe R, Mortier P, Mut F, Reymond P, Socci L, Verheghe B, Frangi AF, "Reproducibility of haemodynamical simulations in a subject-specific stented aneurysm model – A report on the Virtual Intracranial Stenting Challenge 2007", *J. Biomech.*, 41(10): 2069-2081, 2008.
93. **Cebral** JR, Castro MA, Putman CM, Alperin N, "Flow-area relationship in internal carotid and vertebral arteries", *Physiol. Meas.* 29: 585-594, 2008.
94. Löhner R, **Cebral** JR, Camelli F, Appanaboyina S, Baum JD, Mestreau EL, Soto O, "Adaptive embedded and immersed unstructured grid techniques", *Comp Meth Appl Mech Eng* 197: 2173-2197, 2008.
95. Appanaboyina S, Mut F, Löhner R, Putman CM, **Cebral** JR, "Computational Fluid Dynamics of Stented Intracranial Aneurysms using Adaptive Embedded Unstructured Grids", *Int. J. Num. Methods Fluids*, 57(5): 475-493, 2008.
96. Aubry R, Mut F, Löhner R, **Cebral** JR, "Deflated preconditioned conjugate gradient solvers for the pressure-Poisson equation", *J Comp Phys*, 227(24):10196-10208, 2008.
97. Löhner R, Appanaboyina S, **Cebral** JR, "Parabolic Recovery of Boundary Gradients", *Comm Num Meth Eng*, 24(12), 1611-1615, 2008 (DOI: 10.1002/cnm.1054).

98. Löhner R, Appanaboyina S, **Cebral** JR, "Comparison of Body-Fitted, Embedded and Immersed Solutions of Low Reynolds-Number 3-D Incompressible Flows", *Int J Num Methods Fluids*, 57(1): 13-30, 2008 (DOI: 10.1002/flid.1604).
99. **Cebral** JR, Pergolizzi R, Putman CM, "Computational Fluid Dynamics Modeling of Intracranial Aneurysms: Qualitative Comparison with Conventional Angiography", *Acad Radiol*, 14(7): 804-813, 2007.
100. Löhner R, **Cebral** JR, Camelli F, Appanaboyina S, Baum J, Mestreau E, Soto O, "Addaptive Embedded and Immersed Unstructured Grid Techniques", *Arch Comput Methods Eng*, 14:279-301, 2007.
101. Millan D, Dempere-Marco L, Pozo JM, **Cebral** JR, Frangi A, "Morphological Characterization of Intracranial Aneurysms by Using 3D Moment Invariants", *IEEE Trans Med Imaging*, 26(9): 1270-1282, 2007.
102. Wood BJ, Locklin JK, Viswanathan A, Kruecker J, Haemerich D, **Cebral** JR, Sofer A, Cheng R, McCreedy E, Cleary K, McAuliffe M, Glossop N, Yanoff J, "Technologies for Guidance of Radiofrequency Ablation in the Multimodality Interventional Suite of the Future", *J Vasc Interv Radiol* 18: 9-24, 2007.
103. Fyfe-Krishner BS, Shawn B, Yim PJ, **Cebral** JR, Foran DJ, "Plaque morphology in high versus low shear stress regions of human carotid stenosis", *FASEB Journal*, 21(5), A16, 2007.
104. Castro MA, Putman CM, **Cebral** JR, "Patient-Specific Computational Fluid Dynamics Modeling of Anterior Communicating Artery Aneurysms: A Study of the Sensitivity of Intra-Aneurysmal Flow Patterns to Flow Conditions in the Carotid Arteries", *AJNR*, 27: 2061-2068, 2006.
105. Castro, M.A., C.M. Putman, and J.R. **Cebral**, "Computational fluid dynamics modeling of intracranial aneurysms: effects of parent artery segmentation on intra-aneurysmal hemodynamics". *AJNR*, 27: 1703-1709, 2006.
106. Castro MA, Putman CM, **Cebral** JR, "Patient-Specific Computational Modeling of Cerebral Aneurysms with Multiple Avenues of Flow from 3D Rotational Angiography Images", *Academic Radiology*, 13(7): 811-821, 2006.
107. Löhner R, Yang C, **Cebral** JR, Camelli F, Soto O, Waltz J, "Improving the Speed and Accuracy of Projection-Type Incompressible Flow Solvers", *Comp Meth Appl Mech Eng*, 195(23-24): 3087-3109, 2006.
108. **Cebral** JR, Castro MA, Burgess JE, Pergolizzi R, Putman CM, "Characterization of Cerebral Aneurysm for Assessing Risk of Rupture Using Patient-Specific Computational Hemodynamics Models" *AJNR*, 26: 2550-2559, 2005.
109. **Cebral** JR, Castro MA, Appanaboyina S, Putman CM, Millan D, Frangi A, "Efficient Pipeline for Image-Based Patient-Specific Analysis of Cerebral Aneurysm Hemodynamics: Technique and Sensitivity", *IEEE TMI* 24(4): 457-467, special issue on vascular imaging, April 2005.
110. **Cebral** JR, Löhner R, "Efficient Simulation of Blood Flow Past Complex Endovascular Devices Using an Adaptive Embedding Technique", *IEEE TMI* 24(4): 468-476, special issue on vascular imaging, April 2005.
111. Yim PJ, **Cebral** JR, Weaver A, Lutz R, Boudewijn G, Vasbinder C, Ho VB Choyke PL, "Estimation of Pressure Gradients at Renal Artery Stenoses", *MRM*, 51: 969-977, 2004.
112. **Cebral** JR, Summers R, "Tracheal and Central Bronchial Aerodynamics Using Virtual Bronchoscopy and Computational Fluid Dynamics", *IEEE Trans. Medical Imaging*, 23(8): 1021-1033, 2004.
113. Löhner R, **Cebral** JR, Yang C, Baum JD, Mestreau EL, Charman C, Pelessone D, "Large-scale fluid-structure interaction simulations", *Computing in Science and Engineering*, 6(3): 27-37, 2004.
114. Soto O, Löhner R, **Cebral** JR, Camelli F, "A stabilized edge-based implicit incompressible flow formulation", *Comp. Methods Appl. Mech. Eng.*, 193: 2139-2154, 2004.
115. **Cebral** JR, Castro MA, Soto O, Löhner R, Alperin N, "Blood Flow Models of the Circle of Willis from Magnetic Resonance Data", *Journal of Engineering Math*, 47(3-4): 369-386, 2003.
116. Löhner R, **Cebral** JR, Soto O, Yim PJ, Burgess JE, "Applications of Patient-Specific CFD in Medicine and Life Sciences", *Int. J. Numer. Meth. Fluids*, 43: 637-650, 2003.
117. Calamante F, Yim PJ, **Cebral** JR, "Estimation of Bolus Dispersion Effects in Perfusion MRI Using Image-Based Computational Fluid Dynamics", *NeuroImage*, 19: 341-353, 2003.
118. **Cebral** JR, Yim PJ, Löhner R, Soto O, Choyke PL, "Blood Flow Modeling in Carotid Arteries Using Computational Fluid Dynamics and Magnetic Resonance Imaging", *Academic Radiology*, 9: 1286-1299, 2002.
119. **Cebral** JR, Camelli FE and Löhner R, "A Feature Preserving Volumetric Technique to Merge Surface Triangulations", *Int. J. Num. Methods Eng.*, 55:177-190, 2001.
120. **Cebral** JR, "Accurate Segmentation of Vessels from MRA Images", Special Issue of *International Journal of Bioelectromagnetism*, Vol.3, No. 2, 2001.
121. **Cebral** JR, "Flow Predictions During Neuro-Surgery and Carotid Stenting", Special Issue of *International Journal of Bioelectromagnetism*, Vol.3, No. 2, 2001.

122. Yim PJ, **Cebral** JR, Mullick R and Choyke PJ, "Vessel Surface Reconstruction with a Tubular Deformable Model", *IEEE Trans. Medical Imaging*, 20(12), 1411-1421, 2001.
123. **Cebral** JR, Löhner R, Choyke PL and Yim PJ, "Merging of intersecting Triangulations for Finite Element Modeling", *J. Biomech.*, 34, 815-819, 2001.
124. **Cebral** JR and Löhner R, "From Medical Images to Anatomically Accurate Finite Element Grids", *Int. J. Num. Methods Eng.*, 51, 985-1008, 2001.
125. Yim PJ, **Cebral** JR, Zhang Y, Lutz R, Choyke, PL "Evaluation of Magnetic Resonance Angiography for Measuring Arterial Wall Shear Stress", *Annals Biomed. Eng.*, vol. 28, supplement 1, p. S-59, 2000.
126. Löhner, R. and **Cebral**, J.R., "Generation of Non-Isotropic Unstructured Grids via Directional Enrichment", *Int. J. Num. Meth. Engng.*, 49, 219-232, 2000.
127. **Cebral**, J.R. and Löhner, R., "Conservative Load Projection and Tracking for Fluid-Structure Problems", *AIAA Journal*, Vol. 35, No. 4, pp.687-692, 1997.

Book Chapters & Reviews

1. **Cebral**, JR, "Computational Fluid Dynamics (CFD): Current Techniques and Future Perspectives" in Physics of Cardiovascular and Neurovascular Imaginig, Carlo Cavedon and Stephen Rudin eds., Taylor and Francis, 500 pages, ISBN-13 9781439890561, 2014.
2. **Cebral** JR, Raschi M, "Suggested connections between risk factors of intracranial aneurysms: a review", *Ann. Biomed. Eng.* 41(7): 1366-1383, 2013 (DOI: 10.1007/s10439-012-0723-0)
3. Sforza D, Putman CM, **Cebral** JR, "Hemodynamics of Cerebral Aneurysms", *Ann. Review of Fluid Mechanics*, 41: 91-107, 2009.
4. Radaelli A, Bogunovic H, Villa-Uriol MC, **Cebral** JR, Frangi A, "Image-based hemodynamic simulation in intracranial aneurysms", in *Biomedical Imaging: Modalities, Methodologies and Applications*, 2008.
5. **Cebral** JR, Putman CM, "Relating Cerebral Aneurysm Hemodynamics and Clinical Events", in *Vascular Hemodynamics: Bioengineering and Clinical Perspectives*. P. Yim (ed.), John Wiley & Sons, Chapter 3, pages: 346, ISBN-13: 9780470089477, 2008.
6. **Cebral** JR, Löhner R, Appanaboyina S, Putman CM, "Image-Based Computational Hemodynamics Methods and Their Application for the Analysis of Blood Flow Past Endovascular Devices", in *Biomechanical Systems Technology: (1) Computational Methods*, Cornelius T. Leondes (ed.), Chapter 2, Vol. 1, pp. 29-85, World Scientific, 2007.
7. Yim PJ, DeMarco KJ, Castro MA, **Cebral** JR, "Characterization of shear stress on the wall of carotid artery using magnetic resonance imaging and computational fluid dynamics", *Studies in Health Technology and Informatics, Volume 113 – Plaque Imaging: Pixel to Molecular Level*, J. Suri (ed.), pp. 412-442, 2005.
8. R. Löhner, C. Yang, J. **Cebral**, O. Soto and F. Camelli, "On Incompressible Flow Solvers", pp.50-71 in *Numerical Simulations of Incompressible Flows* (M.M. Hafez ed.), World Scientific, 2003.
9. R. Löhner, C. Yang, J. **Cebral**, J.D. Baum, E. Mestreau, H. Luo, D. Pelessone and C. Charman, "Fluid-Structure-Thermal Interaction Using Adaptive Unstructured Grids", in *Computational Methods for Fluid-Structure Interaction* (T. Kvamsdal et al. eds.), Tapir Press, pp.109-120, 1999.
10. **Cebral**, J.R., and Löhner, R., "Distributed Visualization in Computational Fluid Dynamics", *In Computational Fluid Dynamics Review 1998*, ed. M. Hafez and K. Oshima, Vol. II, pp. 1097-1112, World Scientific, 1998.
11. Löhner, R. and **Cebral**, J.R., "Desarrollos Recientes en Generacion de Mallas No Estructuradas", *In Metodos Numericos en Ingenieria*, ed. M. Doblare, J.M. Correas, E. Alarcon, L. Gavete and M. Pastor, vol. 1, 57-82, Barcelona, Spain, 1996.
12. Löhner, R. Yang, C., **Cebral**, J.R., Baum, J.R., Luo, J.D., Pelessone, D. and Charman, C., "Fluid-Structure Interaction Using a Loose Coupling Algorithm and Adaptive Unstructured Meshes", *In Copmutational Fluid Dynamics Review 1995*, ed. M. Hafez and K. Oshima, John Wiley, 1995.

AIAA Papers

1. Mut F, Aubry R, Pierrot G, Roger J, **Cebral** JR, Löhner R, "Coarse-grain deflation for preconditioned conjugate gradient solvers: application to the pressure Poisson equation", AIAA-09-0165, *47th Aerospace Sciences Meeting and Exhibit*, Orlando, FL, January 2009.
2. Camelli F, **Cebral** JR, Löhner R, "Timings of an Unstructured-Grid CFD Code on Common Hardware Platforms and Compilers", AIAA-2008-0477, *46th Aerospace Sciences Meeting and Exhibit*, Reno Nevada, January 7-10, 2008.

3. Löhner R, Appanaboyina S, **Cebral** JR, “Comparison of Body-Fitted, Embedded and Immersed Solutions of Low Reynolds-Number 3-D Incompressible Flows”, *45th Aerospace Sciences Meeting and Exhibit*, Paper No. 1296, Reno, Nevada, January 2007.
4. **Cebral** JR, Löhner R, “On the Loose Coupling of Implicit Time-Marching Codes”, *AIAA-05-1093*, 2005.
5. **Cebral** JR, Camelli FE and Löhner R, “Unstructured Grid Generation Over Buildings Intersecting Terrain Data Using A Feature-Preserving Volumetric Technique”, *AIAA-2002-0860*, 2002.
6. Soto O, R. Löhner R and **Cebral** JR, “An Implicit Monolithic Time Accurate Finite Element Scheme for Incompressible Flow Problems”, *15th AIAA Computational Fluid Dynamics Conference*, Anaheim, California, June 11-14, *AIAA 2001-2616*, 2001.
7. **Cebral** JR and Löhner R, “Flow Visualization On Unstructured Grids Using Geometrical Cuts, Vortex Detection and Shock Surfaces”, *AIAA-01-0915*, 2001.
8. Löhner R, Yang C, Cebral JR, Soto O, Camelli C, Baum JD, Luo H, Mestreau E and Sharov D, “Advances in FEFLO”, *AIAA-01-0592*, 2001.
9. **Cebral**, J.R., and Löhner, R., “Advances in Visualization: Distribution and Collaboration”, *AIAA-99-0693*, January 1999.
10. **Cebral**, J.R., and Löhner, R., “Interactive On-Line Visualization and Collaboration for Parallel Unstructured Multidisciplinary Applications”, *AIAA-98-0077*, January 1998.
11. Löhner, R., Yang, C., **Cebral**, J.R., Pelessone, D. and Charman, C., “Fluid-Structure-Thermal Interaction Using A Loose Coupling Algorithm and Adaptive Unstructured Grids”, *AIAA-98-2419*, 1998 **[Invited]**.
12. **Cebral**, J.R. and Löhner, R., “Fluid-Structure Coupling: Extensions and Improvements”, *AIAA-97-0858*, January 1997.
13. **Cebral**, J.R. and Löhner, R., “Conservative Load Projection and Tracking for Fluid-Structure Problems”, *AIAA-96-0797*, January 1996.

Conference Papers / Abstracts

1. Zhou J, **Cebral** JR, Spandan M, Robertson A, “Distribution of blebs on the walls of intracranial aneurysms”, *BMES 2019 Annual Meeting*, Philadelphia, PA, Oct 16-19, 2019.
2. Mut F, Chung BJ, **Cebral** JR, “Blood flow modeling of cerebral aneurysm treated with intrasaccular flow diverting devices”, *Summer Biomechanics, Bioengineering and Biotransport Conference (SB3C2019)*, Seven Springs, PA, June 25-28, 2019.
3. Mut F, Lawson M, **Cebral** JR, “Differences in parent artery geometry between ACOM and MCA aneurysms”, *Summer Biomechanics, Bioengineering and Biotransport Conference (SB3C2019)*, Seven Springs, PA, June 25-28, 2019.
4. Detmer F, Luckehe D, Mut F, Slawski M, Hirsch S, Bijlenga P, von Voigt G, **Cebral** JR, “Machine learning for discrimination of posterior artery aneurysm rupture status”, *Summer Biomechanics, Bioengineering and Biotransport Conference (SB3C2019)*, Seven Springs, PA, June 25-28, 2019.
5. Detmer F, Hadad S, Hirsch S, Bijlenga P, Uchiyama Y, Frosen J, **Cebral** JR, “Statistical modeling for assessment of aneurysm rupture status – implications for Japanese and Finnish populations”, *Summer Biomechanics, Bioengineering and Biotransport Conference (SB3C2019)*, Seven Springs, PA, June 25-28, 2019.
6. Salimi Ashkezari SF, Mut F, **Cebral** JR, “Hemodynamic characteristics associated with cerebral aneurysm evolution”, *Summer Biomechanics, Bioengineering and Biotransport Conference (SB3C2019)*, Seven Springs, PA, June 25-28, 2019.
7. Detmer F, Luckehe D, Mut F, Slawski M, Hirsch S, Bijlenga P, von Voigt G, **Cebral** JR, “Comparison of statistical learning approaches for cerebral aneurysm rupture assessment”, *CARS 2019*, Rennes, France, June 18-21, 2019.
8. **Cebral** JR, Mut F, Löhner R, Lylyk P, Kallmes D, “Modeling endovascular procedures for intracranial aneurysms”, *6th International Conference on Computational and Mathematical Biomedical Engineering (CMBE2019)*, Sendai, Japan, 10-12 June, 2019.
9. **Cebral** JR, Chung BJ, Mut F, Detmer F, “Aneurysm rupture prediction: summary of our current experience”, *6th International Conference on Computational and Mathematical Biomedical Engineering (CMBE2019)*, Sendai, Japan, 10-12 June, 2019.
10. Tobe Y, Ollikainen E, Charbel F, Amin-Hanjani S, Stapleton C, **Cebral** JR, Gade PS, Robertson AM, “Non-destructive three dimensional pathological analysis of human cerebral aneurysms”, *6th International Conference on Computational and Mathematical Biomedical Engineering – (CMBE2019)*, June 10-12, 2019, Tohoku University, Sendai, Japan, P Nithiarasu, M Ohta, M Oshima.

11. Salimi S, **Cebral** JR, "Hemodynamic modifications during cerebral aneurysm evolution", 8th World Congress of Biomechanics, Dublin, Ireland, July 8-12, 2018.
12. Robertson A, **Cebral** JR, et al. "Coupling between the micro-structure of the cerebral aneurysm wall and its stiffness and failure properties", 8th World Congress of Biomechanics, Dublin, Ireland, July 8-12, 2018.
13. **Cebral** JR, Frosen J, Robertson A, "Relationship between local flow conditions and aneurysm wall characteristics", 8th World Congress of Biomechanics, Dublin, Ireland, July 8-12, 2018.
14. Detmer F, Chung BJ, Mut F, Slawski M, Hamzei-Sichani F, Putman C, Jimenez C, **Cebral** JR, "Development and internal validation of an aneurysm rupture probability model based on patient characteristics and aneurysm location, morphology, and hemodynamics", CARS 2018 Computer Assisted Radiology and Surgery, paper LE-18-00035, Berlin, Germany, June 20-23, 2018.
15. Robertson AM, Maiti S, Gade P, Cheng F, Tobe Y, Sang C, Chuang C-Y, Lee K-W, Fortunato RN, Chung BJ, Tulamo R, Niemelä M, Jahromi BR, Aziz K, Yu A, Williamson R, Charbel FT, Amin-Hanjani S, Brunozzi D, Frösen J, **Cebral** JR, Coupling between the cerebral aneurysm micro-structure and its stiffness and failure properties, The 13th international symposium on Biomechanics in Vascular Biology and Cardiovascular Disease, April 12-13, 2018, Emory University.
16. Robertson AM, Duan X, Maiti S, Thunes JR, Gade PS, Aziz K, **Cebral** JR, Frösen J, Tulamo R, Fortunato RN, Charbel F, Amin-Hanjani S, Role of Calcification in Aneurysm Failure- A Case Study, 5th International Conference on Computational and Mathematical Biomedical Engineering - CMBE2017, April 10-12, 2017, University of Pittsburgh, Pittsburgh, PA, P Nithiarasu, AM Robertson (Eds.), Published for CMBE, Zeta Computational Resources Ltd, Charter Court, Phoenix Way, Enterprise Park, SA7 9FS, Swansea, United Kingdom vol 1, p 52-55.
17. Detmer F, Chung BJ, Mut F, Slawski M, **Cebral** JR, "MATCH Challenge: Identification of Ruptured Multiple Aneurysm", 15th Interdisciplinary Cerebrovascular Symposium, Magdeburg, Germany, June 6-8, 2018.
18. **Cebral** JR, Chung BJ, Mut F, Detmer F, Doddasomayajula R, Hamzei-Sichani F, Kallmes D, Putman CM, "Hemodynamic differences between ruptured and unruptured cerebral aneurysms in a large patient population: preliminary analysis", 5th International Conference on Computational and Mathematical Biomedical Engineering (CMBE2017), Pittsburgh, PA, April 10-12, 2017.
19. Durka M, Knop S, **Cebral** JR, Robertson A, "Investigation of oxygen transport in cerebral aneurysms", 5th International Conference on Computational and Mathematical Biomedical Engineering (CMBE2017), Pittsburgh, PA, April 10-12, 2017.
20. Doddasomayajula R, **Cebral** JR, "Hemodynamic and morphological characteristics of mirror and ipsilateral cerebral aneurysms", BMES 2016 Annual Meeting, Oct 5-8, Minneapolis, MN, 2016.
21. Salvador-Morales C, Marquez-Miranda V, Araya-Duran I, Canan J, Gonzalez-Nilo F, Vilos C, **Cebral** JR, Mut F, Lohner R, Leong B, Sundaresan G, Zweit J, "Mechanistic studies of self-assembly of PJGA patchy particles and their biomedical applications", BMES 2016 Annual Meeting, Oct 5-8, Minneapolis, MN, 2016.
22. **Cebral** JR, Ollikainen E, Chung BJ, Mut F, Sippola V, Jahromi B, Tulamo R, Hernesniemi J, Niemela M, Robertson A, Frosen J, "Intrasaccular hemodynamics, wall inflammation and degenerative changes of cerebral aneurysm wall", Summer Biomechanics, Bioengineering and Biotransport Conference (SB3C), National Harbor, MD, June 29-July 2, 2016.
23. Doddasomayajula R, Chung BJ, Hamzei-Sichani F, Putman CM, **Cebral** JR, "Comparison of flow conditions in aneurysms at the basilar tip and internal carotid artery terminus" Summer Biomechanics, Bioengineering and Biotransport Conference (SB3C), National Harbor, MD, June 29-July 2, 2016.
24. Chung BJ, Doddasomayajula R, Mut F, Hamzei-Sichani F, Putman CM, Pritz M, Jimenez CM, **Cebral** JR, "PCOM aneurysms: angio-architecture, hemodynamics and geometry", Summer Biomechanics, Bioengineering and Biotransport Conference (SB3C), National Harbor, MD, June 29-July 2, 2016.
25. **Cebral** JR, Chung BJ, Mut F, van Nijnatten F, Ruijters D, "Comparison of cerebral aneurysm flow fields obtained from CFD and DSA", Summer Biomechanics, Bioengineering and Biotransport Conference (SB3C), National Harbor, MD, June 29-July 2, 2016.
26. Mut F, Lylyk P, Kallmes D, **Cebral** JR, "Flow diverting characteristics of endoluminal and intrasaccular devices: a comparison", Summer Biomechanics, Bioengineering and Biotransport Conference (SB3C), National Harbor, MD, June 29-July 2, 2016.
27. Sang C, Duan X, Kallmes D, Kadirvel R, Ding Y, Dai D, Aziz K, **Cebral** JR, Robertson A, "A comparative study of the mechanical responses and fiber structure in an elastase induced aneurysm model in rabbits and human cerebral aneurysms", Summer Biomechanics, Bioengineering and Biotransport Conference (SB3C), National Harbor, MD, June 29-July 2, 2016.

28. Durka M, Wong H, Kallmes D, Pasalic D, **Cebral** JR, Blanco P, Jagani M, Robertson A, "How sensitive are hemodynamics in intracranial aneurysms to different blood flow waveforms?", Summer Biomechanics, Bioengineering and Biotransport Conference (SB3C), National Harbor, MD, June 29-July 2, 2016.
29. **Cebral** JR, Ollikainen E, Chung BJ, Mut F, Sippola V, Jahromi VR, Tulamo R, Hernesniemi J, Niemela M, Robertson A, Frosen J, "Association of intracranial aneurysm flow conditions with inflammation and degenerative changes of the aneurysm wall", American Society of NeuroRadiology (ASNR2016), Washington DC, May 23-26, 2016.
30. Doddasomayajula R, Chung BJ, Hamzei-Sichani F, Putman CM, **Cebral** JR, "Hemodynamic differences between basilar tip and internal carotid bifurcation aneurysms", American Society of NeuroRadiology (ASNR2016), Washington DC, May 23-26, 2016.
31. Brinjikji W, Chung BJ, Jimenez C, Putman CM, Kallmes D, **Cebral** JR, "Hemodynamic differences between unstable and stable unruptured aneurysms independent of size and location: pilot study", American Society of NeuroRadiology (ASNR2016), Washington DC, May 23-26, 2016.
32. Putman CM, Chung BJ, **Cebral** JR, "Hemodynamic alteration after partial spontaneous thrombosis of a giant unruptured cerebral aneurysm", American Society of NeuroRadiology (ASNR2016), Washington DC, May 23-26, 2016.
33. Jimenez CM, Roldan T, Correa Velez S, **Cebral** JR, "Estimacion de la perdida de estabilidad seguida de rupture a traves del analisis de las características hemodinamicas y geometricas de los aneurismas cerebrales. Estudio de casos y controles en una muestra de pacientes Latinoamericanos y Norteamericanos", *XXVII Congreso Nacional de Neurocirujia*, Medellin, Colombia, Mar 31-Apr 2, 2016.
34. **Cebral** JR, Chung BJ, Lohner R, Mut F, Veverka KK, Kallmes D, Pulido JS, "Computational modeling of blood flow in retinal arterial macroaneurysms", 39th Annual Macula Society Meeting, Miami, Florida, Feb 24-27, 2016.
35. **Cebral** JR, Chung BJ, Mut F, Robertson A, Tulamo R, Frosen J, "Wall shear stress associated to intracranial aneurysm wall inflammation", International Stroke Conference (ISC2016), Los Angeles, CA, Feb 17-19, 2016.
36. **Cebral** JR, Mut F, Chung BJ, Kadirvel R, Kallmes D, Bleise C, Scrivano E, Lylyk P, "Predicting aneurysm occlusion after flow diversion", International Stroke Conference (ISC2016), Los Angeles, CA, Feb 17-19, 2016 (poster).
37. Rouchaud A, Johnson CR, Thielen EP, Schroeder DJ, Ding YH, Dai D, **Cebral** JR, Kallmes D, Kadirvel R, "Differential gene expression in couled versus flow-diverter treated aneusysms: a RNA-Seq analysis in rabbit aneurysm model", International Stroke Conference (ISC2016), Los Angeles, CA, Feb 17-19, 2016 (poster).
38. Oeltze-Jafra S, **Cebral** JR, Janiga G, Preim B, "Cluster analysis of vertical flow in simulations of cerebral aneurysm hemodynamics", IEEE Visualization 2015, Chicago, Illinois, Oct 25-30, 2015.
39. Rasheed N, Khorasani A, **Cebral** JR, Mut F, Lohner R, Salvador Morales C, "Understanding the formation of novel biocompatible lipid-polymeric patchy particles", Biomedical Engineering Society Annual Meeting (BMES2015), Tampa, Florida, Oct 7-10, 2015.
40. **Cebral** JR, Chung BJ, Aziz K, Duan X, Robertson AM, "Hemodynamics, wall structure and mechanical strength of intracranial aneurysms", 2nd International Conference on CFD in Medicine and Biology, Algarve, Portugal, Aug 29-Sept 4, 2015 [Invited Talk]
41. **Cebral** JR, Duan X, Chung BJ, Putman CM, Aziz K, Robertson AM, "Studying Local Hemodynamics and Wall Properties in Intracranial Aneurysms", 9th European Solid Mechanics Conference (ESMC 2015), Leganes-Madrid, Spain, July 6-10, 2015 [Keynote Lecture]
42. Duan X, Robertson AM, Chung BJ, Aziz K, **Cebral** JR, "Variation in collagen architecture remodeling and wall mechanics in unruptured intracranial aneurysms", 9th European Solid Mechanics Conference (ESMC 2015), Leganes-Madrid, Spain, July 6-10, 2015
43. **Cebral** JR, Chung BJ, Mut F, Lylyk P, Kadirvel R, Kallmes D, "CFD Analysis of Flow Diverters", 4th International Conference on Computational and Mathematical Biomedical Engineeing (CMBE2015), Cachan, France, June 29-July 1, 2015
44. Duan X, Chung BJ, **Cebral** JR, Aziz K, Robertson AM, "Effective remodeling in cerebral aneusysms: a case study", Summer Biomechanics, Bioengineering and Biotransport Conference (SB3C2015), Snowbird, Utah, June 17-20, 2015.
45. **Cebral** JR, Chung BJ, Mut F, Lylyk P, Kadirvel R, Kallmes D, "Using clinical, animal and modeling data to predict outcomes of flow diversion interventions", BMES/FDA Frontiers in Medical Devices Conferences: Innovations in Modeling and Simulation, Washington DC, May 18-20, 2015.

46. **Cebral** JR, "Testing clinical and biological hypotheses through high-performance computational modeling", 27th International Conference on Parallel Computational Fluid Dynamics (ParCFD2015), Montreal, Canada, May 17-20, 2015. [Plenary Lecture]
47. Putman CM, **Cebral** JR, Duan X, Chung B, Aziz K, Robertson A, "Wall mechanical properties and hemodynamics of unruptured intracranial aneurysms", Society of NeuroInterventional Surgery, San Francisco, CA, July 27-30, 2015.
48. Puffer C, Dai D, Ding YH, **Cebral** JR, Kallmes D, Kadirvel R, "Gene expression comparison of flow diversion and coiling in an experimental aneurysm model", International Stroke Conference, abstract #3628 (poster), Nashville, TN, Feb 11-13, 2015
49. Castro MA, **Cebral** JR, "A patient-specific computational fluid dynamics study of flow changes after treatment of stenosis proximal to cerebral aneurysms", 36th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'14), Paper 2834, Chicago, IL, August 26-30, 2014 (Late-Breaking Research Poster)
50. **Cebral** JR, Sforza D, Vazquez M, Putman CM, "Analysis of possible pathways for cerebral aneurysm rupture", 7th World Congress of Biomechanics, Boston, Massachusetts, July 6-11, 2014.
51. **Cebral** JR, Sforza D, Putman CM, "Comparison of the hemodynamics between growing and stable cerebral aneurysms", 52nd Annual Meeting of the American Society of Neuroradiology (ASNR), Montreal, Canada, May 17-22, 2014.
52. **Cebral** JR, Sforza D, Putman CM, "Local hemodynamics at known aneurysm rupture sites", 52nd Annual Meeting of the American Society of Neuroradiology (ASNR), Montreal, Canada, May 17-22, 2014.
53. **Cebral** JR, Sforza D, Putman CM, "Wall stress at known aneurysm rupture sites", 52nd Annual Meeting of the American Society of Neuroradiology (ASNR), Montreal, Canada, May 17-22, 2014.
54. Castro MA, Olivares MCA, Putman CM, **Cebral** JR, "Time analysis of aneurysm wall shear stress for both Newtonian and Casson flows from image-based CFD models", *Proc. SPIE Medical Imaging*, 9038-68, San Diego, CA, Feb 15-20, 2014.
55. Duan X, **Cebral** JR, Aziz K, Robertson A, "An investigation of the variation in wall structure and collagen architecture in the domes of human cerebral aneurysms", The 4th Canadian Conference on Nonlinear Solid Mechanics (CanCNSM 2013), McGill University, Montreal, Canada, July 23-26, 2013.
56. **Cebral** JR, "Clinical relevance and use of CFD models of cerebral aneurysms", *Workshop: Clinical utility of blood flow simulations, ASME Summer Bioengineering Conference (SBC)*, SBC2013-14258, Sunriver, Oregon, June 26-29, 2013.
57. **Cebral** JR, Mut F, Raschi M, Kadirvel R, Kallmes D, "Analysis of blood flow through side branches jailed by flow diverters in rabbit models", *ASME Summer Bioengineering Conference (SBC)*, SBC2013-14258, Sunriver, Oregon, June 26-29, 2013.
58. **Cebral** JR, Mut F, Raschi M, Kadirvel R, Kallmes D, "Flow diversion in rabbit aneurysm models", *ASME Summer Bioengineering Conference (SBC)*, SBC2013-14254, Sunriver, Oregon, June 26-29, 2013.
59. Negahdar MJ, Cha J, **Cebral** JR, Amini A, "Noninvasive 3D pressure calculation from PC MRI via non iterative harmonic based orthogonal projection: constant flow experiment", Conf. Proc. IEEE Engineering in Medicine and Biology Society (EMBC) 4390-4393, July 3-5, Osaka, Japan, 2013 (DOI 10.1109/EMBC.2013.6610519)
60. Negahdar MJ, Cha J, **Cebral** JR, Amini A, "Noninvasive 3D pressure calculation from PC MRI via non iterative harmonic based orthogonal projection: constant flow experiments", *International Symposium of Biomedical Imaging (ISBI)*, San Francisco, California, April 7-11, 2013.
61. Castro MA, Peloc NL, Putman CM, **Cebral** JR, "Changes in cerebral aneurysm hemodynamics after virtual endarterectomy", *Mecanica Computacional*, Vol XXXI, pp. 3797-3809, Salta, Argentina Nov 13-16, 2012.
62. Castro MA, Ahumada Olivares MC, Putman CM, **Cebral** JR, "Effects of Casson rheology on aneurysm wall shear stress", *Mecanica Computacional*, Vol XXXI, pp. 3789-3796, Salta, Argentina Nov 13-16, 2012.
63. **Cebral** JR, Mut F, Wright S, Ascoli G, "Vascular architecture of the human brain: morphometric, geographic and territorial analysis from MRA data", *Proc. ASME 2012 Summer Bioengineering Conference*, SBC2012-80195, Fajardo, Puerto Rico, June 20-23, 2012.
64. Byrne G, Mut F, **Cebral** JR, "Using vortex detection to characterize aneurysmal flow activity", *Proc. ASME 2012 Summer Bioengineering Conference*, SBC2012-80209, Fajardo, Puerto Rico, June 20-23, 2012.
65. Mut F, Scrivano E, Lylyk P, **Cebral** JR, "Hemodynamics environment and occlusion time of tandem intracranial aneurysms treated with flow diverters", *Proc. ASME 2012 Summer Bioengineering Conference*, SBC2012-80172, Fajardo, Puerto Rico, June 20-23, 2012.

66. Sforza D, Putman C, Tateshima S, Viñuela F, **Cebtral** JR, "Hemodynamics characteristics of growing and stable aneurysms", *Proc. ASME 2012 Summer Bioengineering Conference*, SBC2012-80178, Fajardo, Puerto Rico, June 20-23, 2012.
67. Castro MA, Peloc NL, Putman CM, **Cebtral** JR, "Computational hemodynamic study of intracranial aneurysms coexistent with proximal arter stenosis", *Proc. SPIE Medical Imaging*, San Diego, CA, Feb 4-9, 2012.
68. Castro MA, Putman CM, **Cebtral** JR, "Computational study of anterior communicating arter hemodynamics before aneurysm formation", *Proc. SPIE Medical Imaging*, San Diego, CA, Feb 4-9, 2012.
69. Castro MA, Putman CM, **Cebtral** JR, "Hemodynamic characteristics at anterior communicating artery before aneurysm initiation using patient-specific finite element blood flow simulations", *Proc. ENIEF 2011*, Mecanica Computacional, pp. 3385-3393, eds. O Moller, JW Signorelli, MA Storti, Rosario, Argentina, Nov. 1-4, 2011 (keynote presentation).
70. Castro MA, Putman CM, **Cebtral** JR, "Computational analysis of anterior communicating artery aneurysm shear stress before and after aneurysm formation", *Proc. XVII Congreso Argentino de Bioingenieria SABI 2011 – VII Jornadas de Ingenieria Clinica*, Mar del Plata, Argentina, Sept. 28-30, 2011.
71. Castro MA, Putman CM, **Cebtral** JR, "Computational hemodynamics analysis of anterior communicating cerebral artery aneurysms", 7th Virtual Cardiology Congress, Buenos Aires, Argentina, Sept 1, 2011, <http://www.fac.org.ar/7cvc/llave/c068/castrom.php>.
72. **Cebtral** JR, Sforza D, Tateshima S, Viñuela F, Putman CM, "Longitudinal image-based study of cerebral aneurysms: growth, contacts and hemodynamics during aneurysmal progression", *Proc. ASME 2011 Summer Bioengineering Conference*, SBC2011-53382, Farmington, PA, June 22-25, 2011.
73. Mut F, **Cebtral** JR, "Hemodynamic performance of oversized flow diverters", *Proc. ASME 2011 Summer Bioengineering Conference*, SBC2011-53380, Farmington, PA, June 22-25, 2011.
74. **Cebtral** JR, Mut F, Sforza D, Putman CM, "Contributions of image-based CFD to the evaluation of intracranial aneurysms rupture risk", *2nd International Conference on Mathematical and Computational Biomedical Engineering*, (CMBE 2011), Washington DC, March 30-April 1, 2011.
75. Mut F, Wright S, Ascoli G, **Cebtral** JR, "Characterization of the morphometry and hemodynamics of cerebral arterial trees in humans: a preliminary study", *2nd International Conference on Mathematical and Computational Biomedical Engineering*, (CMBE 2011), Washington DC, March 30-April 1, 2011.
76. Byrne G, Mut F, **Cebtral** JR, "Vortex coreline detection for the analysis of blood flow patterns in cerebral aneurysms", *2nd International Conference on Mathematical and Computational Biomedical Engineering*, (CMBE 2011), Washington DC, March 30-April 1, 2011.
77. Löhner R, Mut F, Camelli F, **Cebtral** JR, "Strategies for high performance computation of hemodynamics in cerebral aneurysms", *2nd International Conference on Mathematical and Computational Biomedical Engineering*, (CMBE 2011), Washington DC, March 30-April 1, 2011.
78. Löhner R, Corrigan A, Camelli F, Mut F, **Cebtral** JR, "Running haemodynamic simulations on GPUs", *2nd International Conference on Mathematical and Computational Biomedical Engineering*, (CMBE 2011), Washington DC, March 30-April 1, 2011.
79. Sforza D, Putman CM, Tateshima S, Viñuela F, **Cebtral** JR, "Time evolution and hemodynamics of cerebral aneurysms", *SPIE Medical Imaging*, Lake Buena Vista, Orlando, Florida, Feb 12-17, 2011.
80. Wright SN, Mut F, **Cebtral** JR, Kochunov P, Mazziota JC, Toga AW, Ascoli GA, "Digital reconstruction and morphometric analysis of human brain vasculature from magnetic resonance angiography", 40th Annual Meeting of the Society for Neuroscience, San Diego, California, Nov 13-17, 2010.
81. **Cebtral** JR, Mut F, Löhner R, Putman CM, "Computational analysis of blood flow characteristics in intracranial aneurysms", *IX Argentinian Congress on Computational Mechanics (MECOM) and XXXI Iberian-Latin-American Congress on Computational Methods in Engineering (CILAMCE)*, Buenos Aires, Argentina, Nov. 15-18, 2010.
82. Mut F, Löhner R, Putman CM, **Cebtral** JR, "Effects of foreshortening and oversizing of flow diverting stents for intracranial aneurysms", *IX Argentinian Congress on Computational Mechanics (MECOM) and XXXI Iberian-Latin-American Congress on Computational Methods in Engineering (CILAMCE)*, Buenos Aires, Argentina, Nov. 15-18, 2010.
83. Raschi M, Mut F, Löhner R, Putman CM, Viñuela F, Tateshima S, Tanishita K, **Cebtral** JR, "Computational and experimental hemodynamic analysis of an intracranial aneurysm", *IX Argentinian Congress on Computational Mechanics (MECOM) and XXXI Iberian-Latin-American Congress on Computational Methods in Engineering (CILAMCE)*, Buenos Aires, Argentina, Nov. 15-18, 2010.

84. **Cebral** JR, Sforza D, Tateshima S, Viñuela F, Putman CM, "Hemodynamics and peri-aneurysmal contacts in growing intracranial aneurysms", *7th Intracranial Stenting Meeting (ICS2010)*, Houston, Texas, Sep 15-16, 2010.
85. **Cebral** JR, Mut F, Putman CM, "Connecting hemodynamic characteristics and cerebral aneurysm rupture", *7th Intracranial Stenting Meeting (ICS2010)*, Houston, Texas, Sep 15-16, 2010.
86. **Cebral** JR, Mut F, Putman CM, "Hemodynamics of ruptured and unruptured cerebral aneurysms", *Proc. ASME 2010 Summer Bioengineering Conference (SBC2010-19252)*, Naples, Florida, June 16-19, 2010.
87. Sforza D, Putman CM, Tateshima S, Viñuela F, **Cebral** JR, "Hemodynamics and growth of intracranial aneurysms", *Proc. ASME 2010 Summer Bioengineering Conference (SBC2010-19254)*, Naples, Florida, June 16-19, 2010.
88. **Cebral** JR, Mut F, Scrivano E, Lylyk P, Putman CM, "Aneurysm rupture after treatment with flow diverting stent", *Proc. ASME 2010 Summer Bioengineering Conference (SBC2010-19250)*, Naples, Florida, June 16-19, 2010.
89. **Cebral** JR, Löhner R, Mut F, Scrivano E, Lylyk P, Putman CM, "Identifying possible failure modes of flow diverting devices for intracranial aneurysms", *FDA/NHLBI/NSF Workshop on Computer Modeling for Cardiovascular Devices*, Rockville, Maryland, June 10-11, 2010.
90. **Cebral** JR, Mut F, Scrivano E, Lylyk P, Putman CM, "Hemodynamics in a cerebral aneurysm that bled after treatment with a flow diverting stent", *ASNR 48th Annual Meeting*, Boston, MA, May 15-20, 2010.
91. **Cebral** JR, Putman CM, "Hemodynamics characteristics associated to cerebral aneurysm rupture", *ASNR 48th Annual Meeting*, Boston, MA, May 15-20, 2010.
92. **Cebral** JR, Mut F, Löhner R, Scrivano E, Lylyk P, Putman CM, "Effect of flow diverting devices on jailed arteries and perforators", *ASNR 48th Annual Meeting*, Boston, MA, May 15-20, 2010.
93. **Cebral** JR, Putman CM, "Hemodynamics and rupture risk of intracranial aneurysms", *6th International Intracranial Stent Meeting (ICS09)*, Sendai, Japan, Aug. 5-7, 2009.
94. **Cebral** JR, Mut F, Löhner R, Scrivano E, Lylyk P, Putman CM, "Computational analysis of intracranial stent performance and safety for the treatment of cerebral aneurysms", *6th International Intracranial Stent Meeting (ICS09)*, Sendai, Japan, Aug. 5-7, 2009.
95. Sforza D, Putman CM, **Cebral** JR, "Effect of parent artery motion on basilar tip aneurysm hemodynamics", *Proc. 10th US National Congress on Computational Mechanics*, Columbus, Ohio, July 16-19, 2009.
96. Mut F, Putman CM, Scrivano E, Lylyk P, **Cebral** JR, "Computational analysis of flow diverting stents for intracranial aneurysms", *Proc. 10th US National Congress on Computational Mechanics*, Columbus, Ohio, July 16-19, 2009.
97. **Cebral** JR, Mut F, Appanaboyina S, Löhner R, Scrivano E, Lylyk P, Putman CM, "Flow reduction in jailed arteries after stenting of cerebral aneurysms", *Proc. ASME 2009 Summer Bioengineering Conference*, SBC2009-206144, Lake Tahoe, CA, June 17-21, 2009.
98. Sforza D, Putman CM, **Cebral** JR, "Influence of parent artery motion on the hemodynamics of basilar tip aneurysms", *Proc. ASME 2009 Summer Bioengineering Conference*, SBC2009-206151, Lake Tahoe, CA, June 17-21, 2009.
99. Mut F, Löhner R, **Cebral** JR, "Fast computation of blood flows in arterial models", *Proc. ASME 2009 Summer Bioengineering Conference*, SBC2009-206212, Lake Tahoe, CA, June 17-21, 2009.
100. Khvostova S, Putman CM, **Cebral** JR, "Aneurysms of the posterior communicating artery: hemodynamics and shapes", *Proc. ASME 2009 Summer Bioengineering Conference*, SBC2009-206157, Lake Tahoe, CA, June 17-21, 2009.
101. **Cebral** JR, Putman CM, "Local hemodynamics at the location of bleb development in cerebral aneurysms", *Proc. ASNR 47th Annual Meeting*, Vancouver, Canada, May 18-21, 2009.
102. Sforza D, Putman CM, **Cebral** JR, "Influence of oscillatory motion of the basilar artery on the hemodynamics of aneurysms at the basilar tip", *Proc. ASNR 47th Annual Meeting*, Vancouver, Canada, May 18-21, 2009.
103. Khvostova S, Putman CM, **Cebral** JR, "Hemodynamic analysis of aneurysms of the posterior communicating artery", *Proc. ASNR 47th Annual Meeting*, Vancouver, Canada, May 18-21, 2009.
104. **Cebral** JR, Putman CM, Alley MT, Bammer R, Calamante F, "Studying the hemodynamics in cerebral arteries using image-based computational fluid dynamics and 4D phase-contrast magnetic resonance", *Proc. ISMRM 17th Scientific Meeting and Exhibition*, Honolulu, Hawaii, April 18-24, 2009.
105. Mut F, Wright S, Ascoli G, **Cebral** JR, "Characterizing the brain arterial hemodynamics with subject-specific MRA-based computational fluid dynamics models", *Proc. ISMRM 17th Scientific Meeting and Exhibition*, Honolulu, Hawaii, April 18-24, 2009.

106. Mut F, Wright S, Putman CM, Ascoli G, **Cebral** JR, "Image-based modeling of hemodynamics in cerebral arterial trees", *Proc. SPIE Medical Imaging*, Paper No. 7262-17, Orlando FL, Feb 7-11, 2009.
107. **Cebral** JR, Mut F, Appanaboyina S, Löhner R, Miranda C, Scrivano E, Lylyk P, Putman CM, "Image-based analysis of blood flow modification in stented aneurysms", *Proc. SPIE Medical Imaging*, Paper No. 7262-51, Orlando FL, Feb 7-11, 2009.
108. **Cebral** JR, Mut F, Putman CM, Alley M, Bammer R, Calamante F, "Computational fluid dynamics and phase-contrast magnetic resonance of normal cerebral arteries", *Proc. SPIE Medical Imaging*, Paper No. 7262-75, Orlando FL, Feb 7-11, 2009.
109. Löhner R, **Cebral** JR, Mut F, Appanaboyina S, Putman CM, "Patient-specific device optimization", *Proc. ENIEF'08*, San Luis, Argentina, Nov. 9-12, 2008.
110. **Cebral** JR, Mut F, Appanaboyina S, Löhner R, "Advances in computational modeling of blood flows in stented aneurysms", *Proc. XXIX CILAMCE Iberian Latin American Congress on Computational Methods in Engineering*, Maceio, Brazil, Nov. 4-7, 2008.
111. Mut F, Aubry R, Löhner R, **Cebral** JR, "Fast numerical solutions for incompressible flows in tubular domains", *Proc. XXIX CILAMCE Iberian Latin American Congress on Computational Methods in Engineering*, Maceio, Brazil, Nov. 4-7, 2008.
112. Wright SN, Mut F, Kochunov P, Mazziotta JC, Toga AW, Ascoli G, **Cebral** JR, "Subject-specific models of blood flows in cerebral arterial trees from high-resolution magnetic resonance images", 38th Annual Meeting of the Society for Neuroscience, Washington DC, Nov. 2008.
113. **Cebral** JR, Putman CM, "Relating wall shear stress, bleb formation and rupture of cerebral aneurysms: image-based modeling and clinical observations" *Proc. ASME 2008 Summer Bioengineering Conference*, SBC2008-129364, Marco Island, Florida, June 25-29, 2008.
114. Mut F, Appanaboyina S, **Cebral** JR, "Simulation of stent deployment in patient-specific cerebral aneurysm models for their hemodynamics analysis", *Proc. ASME 2008 Summer Bioengineering Conference*, SBC2008-129367, Marco Island, Florida, June 25-29, 2008.
115. Sforza D, Putman CM, Oubel E, DeCraene M, Frangi A, **Cebral** JR, "Characterization of cerebral aneurysm wall motion from dynamic angiography", *Proc. ASNR 46th Annual Meeting*, New Orleans, Louisiana, May 31-June 5, 2008.
116. Sforza D, Putman CM, Oubel E, DeCraene M, Frangi A, **Cebral** JR, "Cerebral aneurysm hemodynamics and local wall injury: computational modeling and clinical observations", *5th International Bio-Fluid Symposium and Workshop*, Caltech, Pasadena, California, March 27-30, 2008.
117. Castro MA, Putman CM, Radaelli A, Frangi A, **Cebral** JR, "Image-based investigation of hemodynamics and rupture of cerebral aneurysms of a single morphological type: terminal aneurysms", *Proc. SPIE Medical Imaging*, Vol. 6916: 6916DK-1, 6916DK-9, San Diego, CA, Feb. 2008.
118. Hendrickson S, Putman CM, **Cebral** JR, "Hemodynamic Analysis of a Cerebral Aneurysm Prior to its Rupture", *Joint Mathematics Meeting*, San Diego, CA Jan 6-9, 2008.
119. Wright SN, Brown KM, **Cebral** JR, Kochunov P, Mazziotta JC, Senft SL, Toga AW, Ascoli GA, "Digital reconstruction and morphometric analysis of human brain vasculature from magnetic resonance angiography", *Society of Neurosciences Annual Meeting*, San Diego, CA, Nov. 3-7, 2007.
120. **Cebral** JR, Löhner R, Putman C, "The role of hemodynamics in cerebral aneurysms", *World Congress on Computational Mechanics*, San Francisco, CA, July 22-26, 2007.
121. **Cebral** JR, Castro M, Putman C, "Hemodynamics and the natural history of cerebral aneurysms", *ASME Summer Bioengineering Meeting*, Keystone, Colorado, June 20-24, 2007.
122. Appanaboyina S, Mut F, Löhner R, Putman C, **Cebral** JR, "Techniques for computational stenting of intracranial aneurysms", *ASME Summer Bioengineering Meeting*, Keystone, Colorado, June 20-24, 2007.
123. **Cebral** JR, Putman C, "Hemodynamics in the evolution and rupture of brain aneurysms", 4th Intracranial Stent Meeting, Kyoto, Japan, April 18-20, 2007.
124. **Cebral** JR, Löhner R, Appanaboyina S, Putman C, "Personalized computational modeling of stented cerebral aneurysms", 4th Intracranial Stent Meeting, Kyoto, Japan, April 18-20, 2007.
125. Castro, M.A., C.M. Putman, and J.R. **Cebral**. "Hemodynamic patterns of anterior communicating tery aneurysms: a possible association with rupture", *SPIE Medical Imaging*, 6511-84, San Diego, Ca, Feb 2007.
126. **Cebral** JR, Radaelli A, Frangi A, Putman CM, "Qualitative Comparison of Intra-aneurysmal Flow Structures Determined from Conventional and Virtual Angiograms", *SPIE Medical Imaging*, 6511-49, San Diego, Ca, Feb 2007.

127. **Cebral** JC, Radaelli A, Frangi A, Putman CM, "Hemodynamics before and after Bleb Formation in Cerebral Aneurysms", *SPIE Medical Imaging*, 6511-85, San Diego, CA, Feb 2007.
128. Appanaboyina S, Mut F, Löhner R, Putman CM, **Cebral** JR, "Patient-Specific Modeling of Intracranial Aneurysm Stenting", *SPIE Medical Imaging*, 6511-86, San Diego, Ca, Feb 2007.
129. Radaelli A, **Cebral** JR, Sola-Martinez T, Viva-Dias E, Mellado X, Guimaraens L, Frangi A, "Combined clinical and computational information in complex cerebral aneurysms: application to mirror cerebral aneurysms", *SPIE Medical Imaging*, San Diego, Ca, Feb 2007.
130. Oubel E, DeCraene M, Putman CM, Cebral JR, Frangi A, "Analysis of Intracranial Aneurysm Wall Motion and its Effects on Hemodynamic Patterns", *SPIE Medical Imaging*, San Diego, Ca, Feb 2007
131. Dempere-Marcos L, Oubel E, Castro MA, Putman CM, Frangi A, **Cebral** JR, "CFD Analysis Incorporating the Influence of Wall Motion: Application to Intracranial Aneurysms", *Medical Image Computing and Computer Assisted Interventions (MICCAI)*, Copenhagen, Denmark, October 1-6, 2006.
132. Löhner R, **Cebral** JR, Appanaboyina S, Baum JD, Mestreau EL, Soto O, "Embedded and Immersed Methods for Adaptive Unstructured Grid Solvers", *Proc. ENIEF' 06*, Santa Fe, Argentina, November 2006.
133. **Cebral** JR, Castro MA, Putman CM, "A Study of the Hemodynamics of Anterior Communicating Artery Aneurysms", *Proc. SPIE Medical Imaging*, 6143:166-175, 2006.
134. Castro MA, Putman CM, **Cebral** JR, "Effects of Parent Vessel Geometry on Intraaneurysmal Flow Patterns", *Proc. SPIE Medical Imaging*, 6143: 123-131, 2006.
135. He X, Venugopal P, Cebral JR, Scmitt H, Valentino DJ, "Reproducibility of Brain Hemodynamic Simulations: An Inter-Solver Comparison", *Proc SPIE Medical Imaging, Vol. 6143: 61430H1-12*, San Diego, CA, 2006.
136. Wang Y, Moghaddam AM, Behrens G, Fatourae N, **Cebral** JR, Choi ET, Amini AA, "Pulsatile Pressure Measurement Via Harmonic-Based Orthogonal Projection of Noisy Pressure Gradients," *Proc. SPIE Medical Imaging Conference on Physiology, Function, and Structure from Medical Images*, San Diego, California, February 2006.
137. Cebral JR and Calamante F, "MRI-Based Modeling of Vascular Territories and Collateral Circulation of the Brain", *Proc. Intl. Soc. Mag. Reson. Med.*, 13: 528, 2005.
138. Löhner R, J.R. **Cebral**, C. Yang, J.D. Baum, E.L. Mestreau and O. Soto, "Extending the Range and Applicability of the Loose Coupling Approach for FSI Simulations"; invited paper presented at the *DGF Workshop on Fluid-Structure Interaction*, Pforzheim, Germany, October 2005.
139. Löhner R, B. Hübner and J.R. **Cebral**, "Advances in FSI Using Body-Fitted Unstructured Grids"; pp. 25-34 in *Fluid Structure Interaction and Moving Boundaries*, S.K. Chakrabati, S. Hernandez and C.A. Brebbia eds., WIT Press, La Coruña, Spain, September 2005.
140. **Cebral** JR, Castro MA, Putman CP, "Numerical Simulation of Flow Alterations after Carotid Artery Stenting From Multi-Modality Image Data", *Third MIT Conference on Computational Fluid and Solid Mechanics*, Boston, MA, June 14-17, 2005.
141. Castro MA, Putman CP, **Cebral** JR, "Application of Vascular CFD for Clinical Evaluation of Cerebral Aneurysms", *Third MIT Conference on Computational Fluid and Solid Mechanics*, Boston, MA, June 14-17, 2005.
142. Löhner R, J.R. **Cebral**, M. Castro and C. Putnam, "Clinical Applications of Patient-Specific Vascular CFD", *Workshop on Mini-Invasive Procedures in Medicine and Surgery: Mathematical and Computational Challenges*, Montreal, Canada, May 2005.
143. Löhner R, C. Yang, J.R. **Cebral**, F.F. Camelli, F. Togashi, J.D. Baum, H. Luo, E.L. Mestreau and O.A. Soto, "Moore's Law, the Life Cycle of Scientific Computing Codes and the Diminishing Importance of Parallel Computing", *Parallel CFD05*, College Park, MD, May 2005.
144. **Cebral** JR, Castro MA, Millan D, Frangi A, Putman CP, "Pilot Clinical Investigation of Aneurysm Rupture Using Image-Based Computational Fluid Dynamics Models", *SPIE Medical Imaging Conference*, Paper 5746-29, San Diego, CA, Feb. 12-17, 2005.
145. Castro MA, Putman CP, **Cebral** JR, "Computational Modeling of Cerebral Aneurysms in Arterial Networks Reconstructed from Multiple 3D Rotational Angiography Images", *SPIE Medical Imaging Conference*, Paper 5746-28, San Diego, CA, Feb. 12-17, 2005.
146. Appanaboyina S, Castro MA, Löhner R, **Cebral** JR, "Simulation of Endovascular Interventions of Cerebral Aneurysms: Techniques and Evaluation", *SPIE Medical Imaging Conference*, Paper 5746-91, San Diego, CA, Feb. 12-17, 2005.

147. **Cebral** JR, Castro MA, Burgess JE, Pergolizzi R, Putman CM, "Characterization of Cerebral Aneurysms for Assessing Risk of Rupture Using Patient-Specific Computational Hemodynamics Models", *Proc. Eastern Neuroradiological Society (ENRS)*, Boston, Massachusetts, November 2004.
148. Löhner R, J. **Cebral**, M. Castro, J.D. Baum, H. Luo, E. Mestreau and O. Soto, "Adaptive Embedded Unstructured Grid Methods", plenary keynote paper, *Proc. ENIEF04*, Bariloche, Argentina, November 2004.
149. Löhner R, Yang C, **Cebral** J, Soto O, Camelli F, "Improving the Speed and Accuracy of Projection-Type Incompressible Flow Solvers;", *Proc. 1st LNCC Meeting on Computational Modeling*, Petropolis, Brazil, August 2004.
150. Löhner R, J.R. **Cebral**, M.A. Castro, S. Appanaboyima, J.E. Burgess and C.M. Putnam, "Patient-Specific Modelling of Blood Flow Past Endovascular Devices Using Unstructured Embedded Grid Methods", *Proc. 1st LNCC Meeting on Computational Modeling*, Petropolis, Brazil, August 2004.
151. **Cebral** JR, Castro MA, Satoh T, Burgess JE, Putman CM, "Evaluation of Image-Based CFD Models of Cerebral Aneurysms Using MRI", *Proc. ISMRM Flow Motion Workshop*, Zurich, Switzerland, July 11-13, 2004.
152. **Cebral** JR, Castro MA, Pergolizzi R, Putman CM, Burgess JE, "Clinical Applications of Computational Fluid Dynamics in Analysis and Treatment of Cerebral Aneurysms", *Proc. BECON 2004*, Bethesda, Maryland, June 21, 2004. (Poster)
153. **Cebral** JR, Castro MA, Burgess JE, Putman CM, "Cerebral Aneurysm Hemodynamics Modeling from 3D Rotational Angiography", *Proc. IEEE Symposium on Biomedical Imaging (ISBI 2004)*, pp. 944-947, Arlington, Virginia, April 15-18, 2004.
154. **Cebral** JR, Hernandez M, Frangi A, Putman CM, Pergolizzi R, Burgess JE, "Subject-Specific Modeling of Intracranial Aneurysms", *Proc. SPIE Medical Imaging*, Vol. 5369, pp. 319-327, 2004.
155. **Cebral** JR, Putman CM, Pergolizzi R, Burgess JE, Yim PJ, "Multi-Modality Image-Based Modeling of Carotid Artery Hemodynamics", *Proc. SPIE Medical Imaging*, Vol. 5369, pp. 529-538, 2004. (Cum Laude Poster Award)
156. **Cebral** JR, Putman C, Pergolizzi R, Burgess JE, "Patient-Specific Modeling of Atherosclerotic Carotid Arteries from Multi-Modality Image Data", *Proc. IMECE'03*, Washington DC, Nov. 16-24, 2003.
157. **Cebral** JR, Soto O, Lutz RJ, Wood BJ, "Effects of Blood Perfusion on Radiofrequency Ablation of Tumors: Finite Elements and In Vitro Models", *Proc. IMECE'03*, Washington DC, Nov. 16-24, 2003.
158. **Cebral** JR, Hernandez M, Frangi AF, "Computational Analysis of Blood Flow Dynamics in Cerebral Aneurysms from CTA and 3D Rotational Angiography Image Data", *Proc. International Congress on Computational Bioengineering (ICCB'03)*, M. Doblaré, M. Cerrolaza, H. Rodrigues (Eds), Zaragoza, Spain, vol. 1, pp. 191-198, 2003.
159. Pritchard WJ, Wood BJ, **Cebral** JR, Lutz RJ, Sofer A, Wary-Cahen D, Perkowski D, Ashby A, Soto O, Hilbert S, Karanian JW, "Development of In Vivo, Bench and Computational Models that Predict Safety and Failure Modes of Clinical Thermal Ablation", *Proc. FDA 2003 Science Forum*, Washington DC, April 24-25, 2003.
160. **Cebral** JR, Castro M, Löhner R, Soto O, Yim PJ, Alperin N, "Finite Element Modeling of the Circle of Willis from Magnetic Resonance Data", *Proc. SPIE Medical Imaging*, 5031:11-21, 2003.
161. Yim PJ, **Cebral** JR, Weaver A, Lutz RJ, Bodewijn G, Vasbinder C, "Estimation of Pressure Gradients at Renal Artery Stenoses", *Proc. SPIE Medical Imaging*, 5031: 22-30, 2003.
162. Calamante F, Yim PJ, **Cebral** JR, "Estimation of Bolus Dispersion Errors in Perfusion MRI using Image-Based Computational Fluid Dynamics", *8th Annual Meeting of the British Chapter of ISMRM*, September 2-3, Sheffield, UK, 2002.
163. Yim PJ, **Cebral** JR, Vasbinder B, Ho VB, van Engelshoven JMA, Choyke PL, "Hemodynamic Significance of Renal Artery Stenoses from Magnetic Resonance Imaging", *Proc. First IEEE Symposium on Biomedical Imaging (ISBI'02)*, July 7-10, Washington DC, 2002. (Poster)
164. **Cebral** JR, Löhner R, Soto O, Yim PJ, "Finite Element Modeling of Blood Flows in Healthy and Diseased Arteries", *Proc. 5th World Congress on Computational Mechanics*, July 7-12, Vienna, Austria, 2002.
165. Yim PJ, **Cebral** JR, Weaver A, Lutz R, Vasbinder GBC, Choyke PL, "Measurement of Pressure Drops at Arterial Stenoses from MR Imaging", *Proc. BMES*, 2002 (Poster)
166. Calamante F, Yim PJ, **Cebral** JR, "A New Method for Quantitative Estimation of Bolus Dispersion Errors in Perfusion MRI", *Proc. ISMRM*, May 18-24, Honolulu, Hawaii, 2002.

167. **Cebtral** JR, Löhner R, Soto O, Choyke PL and Yim PJ, "Image-Based Finite Element Modeling of Hemodynamics in Stenosed Carotid Artery", *Proc. SPIE Medical Imaging*, Vol. 4683, paper No. 34, San Diego, California, February 2002.
168. **Cebtral** JR, Löhner R, Soto O, Choyke PL and Yim PJ, "Patient-Specific Simulation of Carotid Artery Stenting Using Computational Fluid Dynamics", *Lecture Notes in Computer Sciences No 2208 (Proc. MICCAI 2001)*, Utrecht, The Netherlands, Oct. 14-17), Springer, 153-160, 2001.
169. Yim PJ, **Cebtral** JR, Ho VB, Marcos HB, Boudewijn G, Vasbinder C, Rowedder A, Sortur A, van Engelshoven JMA, Soto O, Löhner R and Choyke PL, "Computational Modeling of Blood Flow Patterns from Magnetic Resonance Imaging", *Proc. RSNA*, October 2001.
170. Yim PJ, **Cebtral** JR, Löhner R, Ho VB and Choyke PL, "Estimation of Mechanical Stress on the Carotid Artery", *Proc. BMES 2001*, October 2001 (Poster).
171. Soto O, Löhner R, **Cebtral** JR and Codina R, "A Time-Accurate Implicit Monolithic Finite Element Scheme for Incompressible Flow Problems", *Proc. ECCOMAS CFD*, Swansea, UK, September 2001.
172. Löhner R and **Cebtral** JR, "Image-Based Blood Flow Modeling as a Prediction Tool for Planning Medical Interventions", *Proc. ECCOMAS CFD*, Swansea, UK, September 2001.
173. Löhner R, **Cebtral** JR, Soto O, Yim PJ and Burgess JE, "CFD in Medicine and Life Sciences: Applications in the Living Human Being" *Proc. 5th World Conference on Applied Fluid Dynamics*, Freiburg, Germany, June 18-21, 2001.
174. **Cebtral** JR, Yim PJ, Löhner R, Soto O, Marcos H and Choyke PL, "New Methods for Computational Fluid Dynamics of Carotid Artery From Magnetic Resonance Angiography", *Proc. SPIE Medical Imaging*, Vol. 4321, paper No. 22, San Diego, California, February 2001.
175. Yim PJ, **Cebtral** JR, Löhner R, Marcos H, and Choyke PL, "Interpretation of Arterial Velocity Waveforms Using Computational Fluid Dynamics", *Proc. SPIE Medical Imaging*, Vol. 4321, paper No. 11, San Diego, California, February 2001.
176. Summers R and **Cebtral** JR, "Tracheal and Central Bronchial Aerodynamics Using Virtual Bronchoscopy", *Proc. SPIE Medical Imaging*, Vol. 4321, paper No 04, San Diego, California, February 2001.
177. Yim PJ, **Cebtral** JR, Zhang Y, Lutz R and Choyke PL, "Evaluation of Methods for Measurement of Arterial Wall Shear Stress", *Proc. BMES*, Seattle, Washington October 12, 2000.
178. Yim, PJ, Mullick R, Summers RM, Marcos H, **Cebtral** JR, Löhner R, Choyke PL, "Measurement of stenosis from magnetic resonance angiography using vessel skeletons", *Proc. SPIE Medical Imaging*, Vol 3978, p245-255, (2000).
179. Löhner, R., Yang, C., **Cebtral**, J.R., Baum, J.D., Luo, H., Mestreau, E., Pelessone, D. and Charman C., "Fluid-Structure Interaction Algorithms for Rupture and Topology Change" Japan 2000.
180. **Cebtral**, J.R., and Löhner, R., "Automatic Grid Generation for Anatomically Accurate Computational Hemodynamics Calculations" *Proc. ICMMB-11*, April 2-5, Hawaii, 2000.
181. **Cebtral**, J.R., and Löhner, R., "From Medical Images To CFD Meshes", *Proc. 8th International Meshing Roundtable*, South Lake Tahoe, California October 10-13, 1999.
182. Löhner, R., and **Cebtral**, J.R., "Parallel Advancing Front Grid Generation", *Proc. 8th International Meshing Roundtable*, South Lake Tahoe, California October 10-13, 1999.
183. **Cebtral**, J.R., and Löhner, R., "Loads Transfer for Viscous Fluid-Structure Interaction", *Proc. IV World Congress in Computational Mechanics*, Buenos Aires, Argentina, June 29-July 2, 1998.
184. Löhner R. and **Cebtral** J.R., "Fluid-Structure-(Thermal) Interaction in Industry: Issues and Outlook (1998)", *Proc. 4th World Conference and Exhibition in Applied Fluid Dynamics*, Freinurg i. Br., Germany, June 7-11, 1998.
185. **Cebtral**, J.R., Löhner, R. and Sandberg W., "Interactive Visualization for Parallel Marine CFD Applications", *Proc. 1st Marine CFD Symposium*, McLean VA, May 19-21, 1998.
186. Löhner, R., **Cebtral**, J.R., Baum, J.D. and Luo, H., "Capabilities and Issues of Unstructured-Grid CFD for High-Speed Flight Vehicles", *Proc. Int. CFD Workshop for Super-Sonic Transport Design*, Tokyo, Japan, March 16-17, 1998.
187. Löhner, R., Yang, C., **Cebtral**, J.R., Pelessone, D. and Charman, C., "Fluid-Structure-Thermal Interaction Using A Loose Coupling Algorithm and Adaptive Unstructured Grids", *AIAA-98-2419*, 1998.
188. **Cebtral**, J.R., "ZFEM: Collaborative Visualization for Parallel Multidisciplinary Applications", *Proc. Parallel Computational Fluid Dynamics 1997*, Manchester, U.K., May 19-21, 1997.
189. Löhner, R. and **Cebtral**, J.R., "Fluid-Structure Interaction in Industry: Issues and Outlook", *Proc. World User Association in Applied Computational Fluid Dynamics, 3rd World Conference in Applied Computational Fluid Dynamics*, Germany, May 19-23, 1996.

190. Löhner, R. Yang, C., **Cebal**, J.R., Baum, J.R., Luo, J.D., Pelessone, D. and Charman, C., "A Loose Coupling Algorithm for Fluid-Structure Interaction Simulations", *Proc. Eighth Annual Idaho National Laboratory Computing Symposium*, October 4-7, Idaho Falls, Idaho, 1994.
191. **Cebal**, J.R. "Solving the Fluid-Solid Heat Interaction Problem Using PVM", *Proc. Second PVM User's Group Meeting*, Oak Ridge, Tennessee, May 1994.