

Numerical methods and algorithms

1. Special format of graph description was constructed. It allows user to pay no attention to the way how solver treats the topology of vascular graph.

2. Conservative finite-difference scheme with second order of approximation on each arch of graph was taken as a base. At the same time scheme is homogeneous, so it does not depends upon concrete arch.

3. Two different variants of finite-difference schemes provided for better reliability of numerical calculations.

4. The total non-linear system of equations is solved with help of iteration methods (Newton method, successive iterations on coefficients of equations).

5. The obtained linear system of equations is solved mainly by direct methods.

$$\hat{p}_j^k + As_j^3 \hat{\rho}_{j+1}^k + Bs_j^1 \hat{u}_{j-1}^k + Bs_j^2 \hat{u}_j^k + Bs_j^3 \hat{u}_{j+1}^k = -Fs_j$$

$$1_j^k = -\left(\frac{u_{j-1}^k}{2} + \frac{a_{j-1/2}^k}{h}\right) \frac{\sigma_1 \tau}{h} \theta_{j-1}^k,$$

$$2_j^k = (1 + (a_{j+1/2}^k + a_{j-1/2}^k) \frac{\sigma_1 \tau}{h^2}) G$$

$$3_j^k = \left(\frac{u_{j+1}^k}{2} - \frac{a_{j+1/2}^k}{h}\right) \frac{\sigma_1 \tau}{h} \theta_{j+1}^k,$$

$$Bs_j^1 = -\frac{\sigma_1 \tau}{2h} s_{j-1}^k,$$

$$Bs_j^2 = 0,$$

$$Bs_j^3 = \frac{\sigma_1 \tau}{2h} s_{j+1}^k,$$

$$-\bar{s} + (s_{j+1}^k u_{j+1}^k - s_{j-1}^k u_{j-1}^k) \frac{\sigma_1 \tau}{2h} + (\bar{s}_{j+1} \bar{u}_{j+1} - \bar{s}_{j-1} \bar{u}_{j-1}) \frac{(1-\sigma_1)\tau}{2h} -$$

$$-(a_{j+1}^k s_{j+1}^k - (a_{j+1/2}^k + a_{j-1/2}^k) s_j^k + a_{j-1/2}^k s_{j-1}^k) \frac{\sigma_1 \tau}{h^2} -$$

$$-(\bar{a}_{j+1/2} \bar{s}_{j+1} - (\bar{a}_{j+1/2} + \bar{a}_{j-1/2}) \bar{s}_j + \bar{a}_{j-1/2} \bar{s}_{j-1}) \frac{(1-\sigma_1)\tau}{h^2}.$$

Numerical Calculations Algorithms

Wolfgang Guggemos



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