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*International Journal of Computer Applications in Technology (IJCAT), Vol. 21, No. 1/2, 2004***Abstract:** The paper discusses two potential applications of computational technologies to combat cardiovascular heart disease in Singapore. The first application involves the exploitation of neural networks for the risk prediction of coronary heart disease. The second application involves the potential integration of artificial intelligence and high performance modelling with clinical biology for the analysis and visualisation of atherosclerosis related structure. The implementation of these computation tools in phases constitutes initial efforts in the development of a digital clinical atherosclerosis laboratory to assist in the prevention and treatment of cardiovascular heart disease.

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