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computing is an area within computing science that aims to abstract computing ideas and models from the structure and functioning of living cells as well as from the way the cells are organized in tissues or higher order structures it studies models of computation known as p 2021 tldr four papers in this issue mainly focus on the applications of membrane computing including fault diagnosis with spiking neural p systems image segmentation pedestrian behaviours simulation of intelligence decision p systems and k means algorithm optimised by tissue like p systems expand 6 the oxford handbook of membrane computing gheorghe paun grzegorz rozenberg arto salomaa oup oxford dec 24 2009 mathematics 696 pages part of the broader research field of natural part of the broader research field of natural computing membrane computing is an area within computing science that aims to abstract computing ideas and models from the structure and functioning of living cells as well as from the way the cells 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systems processing multisets of objects in the compartments defined by hierarchical or more general arrangements of membranes summary part of the broader research field of natural computing membrane computing is an area within computing science that aims to abstract computing ideas and models from the structure and functioning of living cells as well as from the way the cells are organized in tissues or higher orderstructures the oxford handbook of membrane computing 2009 12 24 gheorghe paun membrane computing studies models of computation called p systems inspired by the structure and functioning of a living cell in particular by the role of membranes in compartmentalization of living cells this handbook provides the necessary biological and formal membrane computing is a branch of natural computing which abstracts computing models from the architecture and the functioning of living cells as well as from the organization of cells in tissues organs brain included or other higher order structures such as colonies of cells e g of bacteria the research area of membrane computing originated as an attempt to formulate a model of computation motivated by the structure and functioning of a living cell more specifically by the role of membranes in compartmentalization of living cells into protected reactors membrane computing initiated by prof paun 1 in 1998 as a branch of natural computing is a vigorous computational paradigm motivated by the structure and functioning of the living cells and from the ways the cells cooperate in populations like tissues organs colonies including neural cells hence also the brain 2 3

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