

Comprehensive exam Membrane computing

Syllabus Cooperative and non-cooperative, catalytic membrane systems; priorities, membrane dissolution, the role of synchronization; active membranes, computational complexity, efficient solution of computationally hard problems; symport/antiport systems; automata-like membrane systems, distributed membrane automata. Applications of membrane computing.

- Bibliography**
1. P. Frisco, M. Gheorghe, M.J. Pérez-Jiménez: Applications of Membrane Computing in Systems and Synthetic Biology. Springer International Publishing, 2014.
 2. Gh. Paun: Membrane Computing: An Introduction. Springer-Verlag Berlin Heidelberg, 2002.
 3. Gh. Paun, G. Rozenberg, A. Salomaa (szerk.): The Oxford Handbook of Membrane Computing. Oxford University Press, 2010.
 4. G. Zhang, M.J. Pérez-Jiménez, M. Gheorghe: Real-life Applications with Membrane Computing (Emergence, Complexity and Computation), Springer International Publishing, 2017.