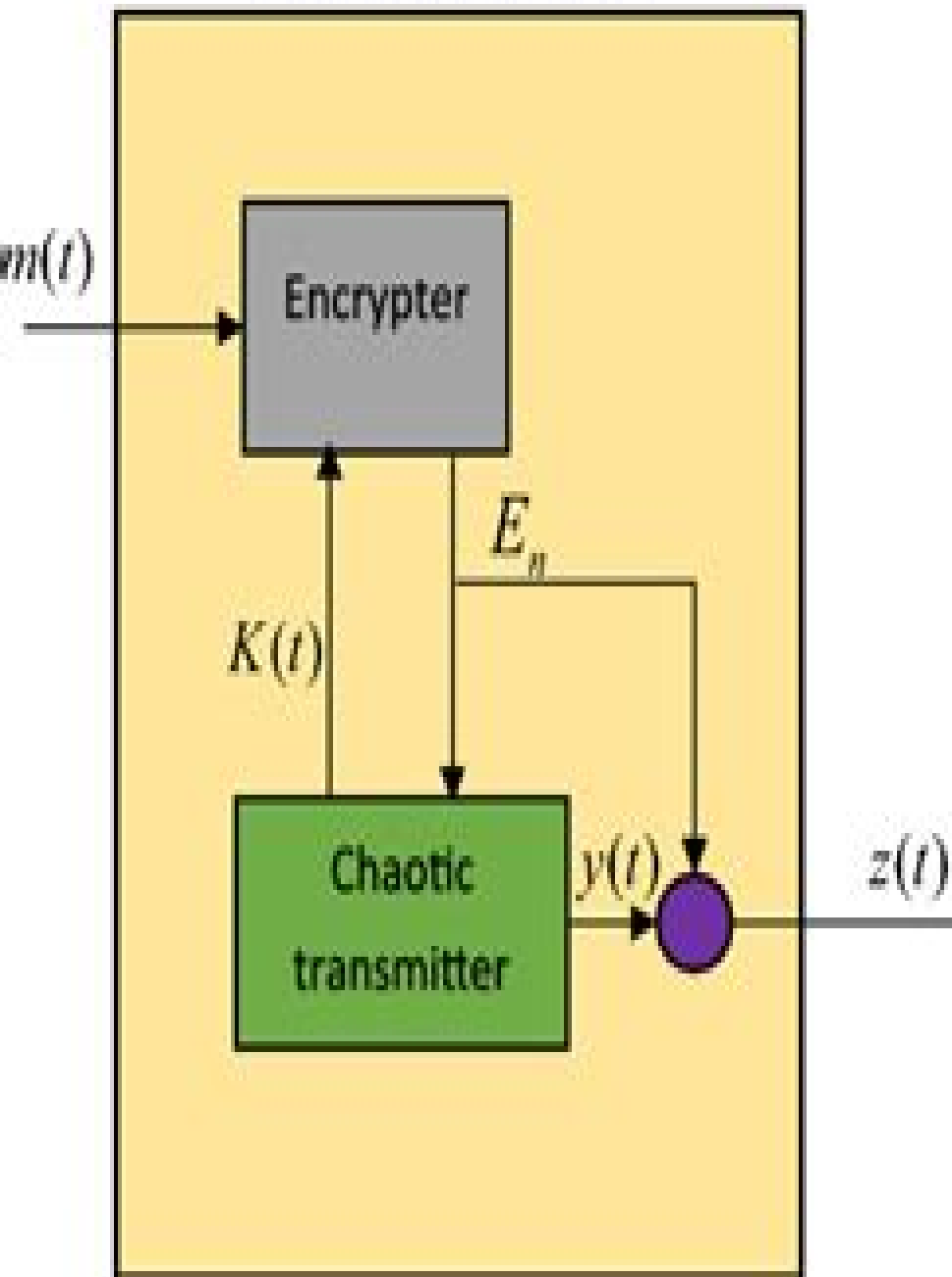
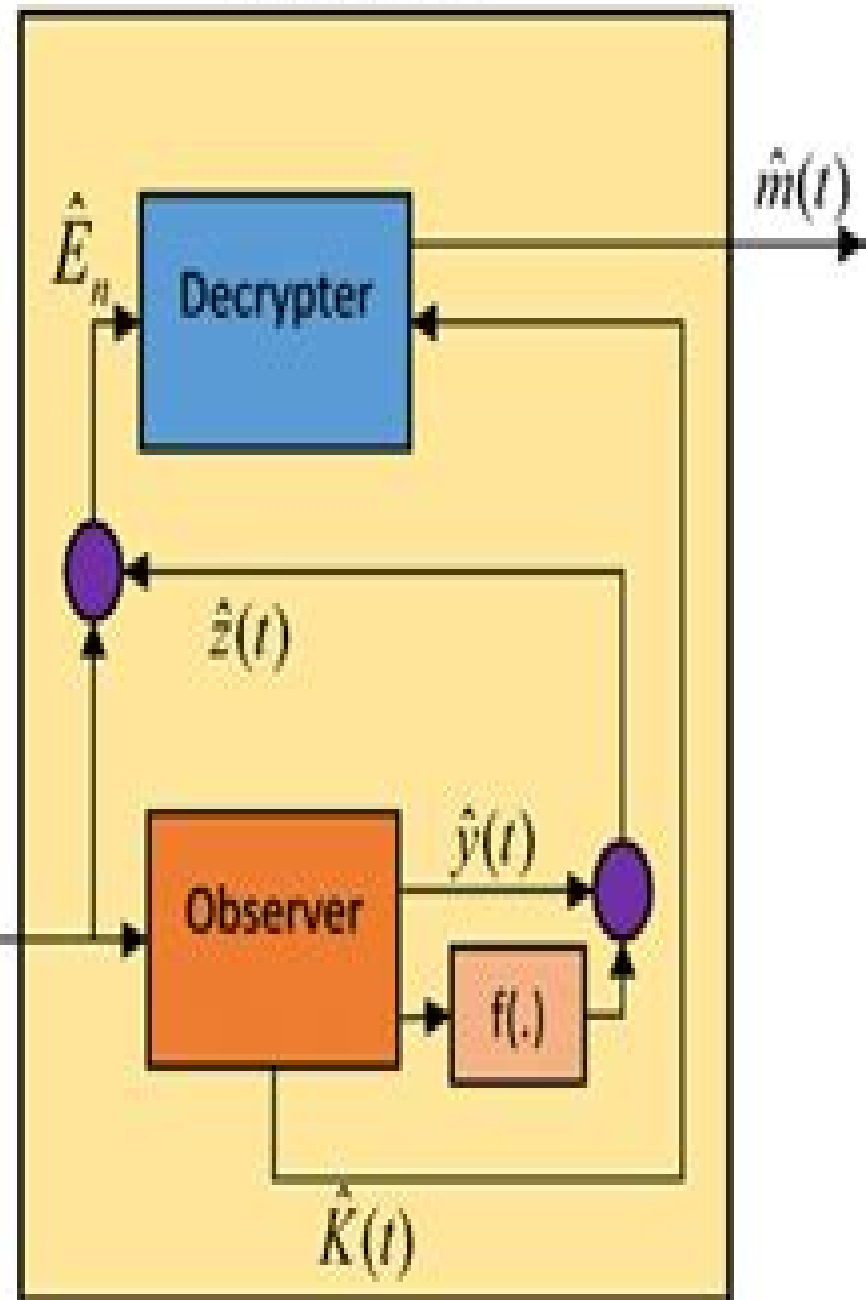


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Membrane Computing And Cryptographic Systems

**Giancarlo Mauri, Gheorghe Paun, Mario
J. Pérez-Jiménez, Grzegorz
Rozenberg, Arto Salomaa**



Membrane Computing And Cryptographic Systems:

Membrane Computing and Cryptographic Systems Zaher Salah,Badr Amr,2015-10-13 Membrane computing is an area of computer science aiming to abstract computing ideas and models from the structure and the functioning of living cells In short it deals with distributed and parallel computing models processing multiset with an essential role played by the communication among compartments where evolution rules and evolving objects are encapsulated into compartments delimited by membranes RSA algorithm is the most widely used public key cryptosystem In practice public key encryption schemes are slower than symmetric key counterparts due to using large numbers in power calculations Since mathematical calculations need long time to perform encryption decryption processes In this book two proposed designs of RSA using the membrane computing environment ideas are proposed The first model depends on decreasing time of power calculations as it runs RSA algorithm as three parallel threads with all calculations which can be done parallel are executed at the same time The second proposed design is depending on representing the parallel nature of membrane computing by using GPU model

Membrane Computing Thomas Hinze,Grzegorz Rozenberg,Arto Salomaa,Claudio Zandron,2019-01-31 This book constitutes revised selected papers from the 19th International Conference on Membrane Computing CMC19 CMC 2018 which was held in Dresden Germany in September 2018 The 15 papers presented in this volume were carefully reviewed and selected from 20 submissions The contributions aim to abstract computing ideas and models from the structure and the functioning of living cells as well as from the way the cells are organized in tissues or higher order structures

Proceedings of the Nineteenth International Conference on Membrane Computing (CMC19) Thomas Hinze,Jörn Behre,2018 This volume contains invited and accepted contributions presented at the Nineteenth International Conference on Membrane Computing CMC19 <http://cmc19.uni-jena.de> which took place in Dresden Germany from 4 to 7 September 2018 organised by the Friedrich Schiller University Jena Germany together with the Jena Centre for Bioinformatics JCB under the auspices of the International Membrane Computing Society IMCS We appreciate the hospitality of the NH Hotel and Conference Centre Dresden Neustadt Taking place for the second time in Germany and for the first time in Dresden CMC19 is pleased to continue the fruitful tradition of 18 previous events of the International Workshop and Conference on Membrane Computing WMC CMC enriched by some new ideas and inspirations emphasising multidisciplinary and innovative capacity and inspired by the idea of bringing together researchers working in membrane computing or related areas in a friendly atmosphere enhancing communication and cooperation *Membrane Computing* Giancarlo Mauri,Gheorghe Paun,Mario J. Pérez-Jiménez,Grzegorz Rozenberg,Arto Salomaa,2008-01-04 This book constitutes the thoroughly refereed extended postproceedings of the 5th International Workshop on Membrane Computing WMC 2004 held in Milan Italy in June 2004 The 20 revised full papers presented together with 6 invited papers went through two rounds of reviewing and improvement All current topics in the area of membrane computing are addressed ranging from mathematics

and theoretical computer science to applications in biology linguistics and computer graphics Issues related to computational power and complexity classes new classes of P systems fuzzy approaches and reversibility and energy consumption are dealt with as well

Membrane Computing Models: Implementations Gexiang Zhang, Mario J. Pérez-Jiménez, Agustín Riscos-Núñez, Sergey Verlan, Savas Konur, Thomas Hinze, Marian Gheorghe, 2021-07-01 The theoretical basis of membrane computing was established in the early 2000s with fundamental research into the computational power complexity aspects and relationships with other unconventional computing paradigms Although this core theoretical research has continued to grow rapidly and vigorously another area of investigation has since been added focusing on the applications of this model in many areas most prominently in systems and synthetic biology engineering optimization power system fault diagnosis and mobile robot controller design The further development of these applications and their broad adoption by other researchers as well as the expansion of the membrane computing modelling paradigm to other applications call for a set of robust efficient reliable and easy to use tools supporting the most significant membrane computing models This work provides comprehensive descriptions of such tools making it a valuable resource for anyone interested in membrane computing models

Membrane Computing Gheorghe Paun, 2003-02-25 This book constitutes the thoroughly refereed post proceedings of the International Workshop on Membrane Computing WMC CdeA 2002 held in Curtea de Arges Romania in August 2002 The 29 revised full papers presented were carefully selected during two rounds of reviewing and revision some were especially solicited for inclusion in the book after the workshop Most papers address membrane systems and membrane computing from the point of view of theoretical computer science some papers solve open problems and present new approaches and others provide mathematical and biological background All in all the book presents the state of the art in membrane computing

Membrane Computing for Distributed Control of Robotic Swarms: Emerging Research and Opportunities Florea, Andrei George, Buiu, Cătălin, 2017-03-10 Developments in bio inspired computation have impacted multiple fields and created opportunities for new applications In recent years these techniques have been increasingly integrated into robotic systems Membrane Computing for Distributed Control of Robotic Swarms Emerging Research and Opportunities is an innovative reference source for the latest perspectives on biologically inspired computation techniques for robot design and control Highlighting a range of pivotal topics such as software engineering simulation tools and robotic security this book is ideally designed for researchers academics students and practitioners interested in the role of membrane computing in mobile robots

Applications of Membrane Computing Gabriel Ciobanu, Mario J. Pérez-Jiménez, Gheorghe Păun, 2007-08-06 Membrane computing is a branch of natural computing which investigates computing models abstracted from the structure and functioning of living cells and from their interactions in tissues or higher order biological structures The models considered called membrane systems P systems are parallel distributed computing models processing multisets of symbols in cell like compartmental architectures In many applications membrane

systems have considerable advantages among these are their inherently discrete nature parallelism transparency scalability and nondeterminism In dedicated chapters leading experts explain most of the applications of membrane computing reported so far in biology computer science computer graphics and linguistics The book also contains detailed reviews of the software tools used to simulate P systems *Membrane Computing* Hendrik Jan Hoogeboom,Gheorghe Paun,Grzegorz

Rozenberg,Arto Salomaa,2007-01-25 This book constitutes the thoroughly refereed extended post proceedings of the 7th International Workshop on Membrane Computing WMC 2006 held in Leiden Netherlands in July 2006 The papers in this volume cover all the main directions of research in membrane computing ranging from theoretical topics in mathematics and computer science to application issues Special attention was paid to the interaction of membrane computing with biology

Membrane Computing Grzegorz Rozenberg,Arto Salomaa,José M. Sempere,Claudio Zandron,2015-12-29 This book constitutes revised selected papers from the International Conference on Membrane Computing CMC 2015 held in Valencia Spain in August 2015 The 22 full papers presented in this volume were carefully reviewed and selected from 34 submissions The volume also contains 3 invited talks in full paper length

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