

**The 5th Asian Conference on
Membrane Computing (ACMC 2016)
14 - 16 November 2016**
Faculty of Information Science & Technology
Universiti Kebangsaan Malaysia

CONFERENCE SCHEDULE

DAY 1: 14 NOVEMBER 2016 (MONDAY - MORNING)

0800 - 0900	Registration and authors' kits Venue: Dewan Multimedia, FTSM
0900 - 1000	Welcoming Speech and Opening Ceremony Venue: Dewan Multimedia, FTSM Welcoming Speech ASSOC. PROF. DR. RAVIE CHANDREN <i>Conference Chair of the ACMC2016</i> Introduction to IMCS PROF. DR. GEXIANG ZHANG <i>President of International Membrane Computing Society. School of Electrical Engineering, Southwest Jiaotong University, China</i> Opening Speech PROF. DR. ABDULLAH MOHD ZIN <i>Dean of Faculty of Information Science & Technology</i>
1000 - 1030	COFFEE/TEA BREAK Venue: Executive Room
1030 - 1130	Keynote Speech I Venue: BK7 Speaker PROF. DR. GEXIANG ZHANG <i>President of International Membrane Computing Society. School of Electrical Engineering, Southwest Jiaotong University, China</i> Title Real-life applications with membrane computing
1130 - 1230	Keynote Speech II Venue: BK7 Speaker ASSOC. PROF. DR. GNANARAJ THOMAS <i>Madras Christian College (MCC), Tambaram, Chennai</i> Title DNA Computing and Splicing P Systems
1230 - 1400	LUNCH Venue: Executive Room

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CONFERENCE SCHEDULE

DAY 1: 14 NOVEMBER 2016 (MONDAY - AFTERNOON)

1400 - 1500	Technical Sessions 1 Venue: BK7 and BK8
1500 - 1600	Technical Sessions 2 Venue: BK7 and BK8
1600 - 1630	COFFEE/TEA BREAK Venue: Executive Room
1630 - 1730	Technical Sessions 3 Venue: BK7 and BK8

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DAY 2: 15 NOVEMBER 2016 (TUESDAY - MORNING)

0900 - 1000	<p>Keynote Speech III Venue: BK7</p> <p>Speaker PROF. HENRY N. ADORNA <i>Department of Computer Science, University of the Philippines</i></p> <p>Title Spiking Neural P Systems: Insights and Challenges</p>
1000 - 1030	<p>COFFEE/TEA BREAK Venue: Executive Room</p>
1030 - 1130	<p>Keynote Speech IV Venue: BK7</p> <p>Speaker DR. IBRAHIM VENKAT <i>School of Computer Science, Universiti Sains Malaysia</i></p> <p>Title Biometric challenges and bio-inspired approaches</p>
1130 -1230	<p>Technical Sessions 4 Venue: BK7 and BK8</p>
1230 - 1400	<p>LUNCH Venue: Executive Room</p>

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CONFERENCE SCHEDULE

DAY 2: 15 NOVEMBER 2016 (TUESDAY - AFTERNOON)

1400 - 1500	Technical Sessions 5 Venue: BK7 and BK8
1500 - 1600	Technical Sessions 6 Venue: BK7 and BK8
1600 - 1630	COFFEE/TEA BREAK Venue: Executive Room
1630 - 1900	Trip to Putrajaya
1900 - 2130	Dinner and Closing Ceremony Venue: PICC Cafe

DAY 3: 16 NOVEMBER 2016 (WEDNESDAY)

0830 - 1700	Trip to Historic City of Malacca
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**CONFERENCE PROGRAMME
DAY 1 (TECHNICAL SESSIONS 1)**

(14 NOVEMBER 2016 - MONDAY)

VENUE: BK7

TIME	CHAIRPERSON	TITLE	AUTHORS
1400 - 1500	Prof. Dr. Linqiang	A P System based on Negative Selection for Classification	Lian Ye and Ping Guo
		Fault Diagnosis of Power Systems Using Fuzzy Spiking Neural P Systems with Interval-valued Fuzzy Numbers	Wenping Yu, Jun Ming, Jun Wang, Hong Peng, Ke Chen and Chengyu Tao
		Simulation of Fuzzy Acsh on Membranes with Michaleis-Menten Kinetics	Philomenal Karoline, Helen Chandra, Saroja Theerdus Kalavathy and Mary Imelda Jayaseeli

**CONFERENCE PROGRAMME
DAY 1 (TECHNICAL SESSIONS 2)**

(14 NOVEMBER 2016 - MONDAY)

VENUE: BK7

TIME	CHAIRPERSON	TITLE	AUTHORS
1500 - 1600	Prof. Dr. Linqiang	A Family P system of Realizing RSA Algorithm	Ping Guo and Wei Xu
		Spiking neural P systems with rules on synapses and anti-spikes	Tingfang Wu, Yanfeng Wang, Suxia Jiang and Xiaolong Shi
		A General Object Oriented Description for Membrane Computing	Xiyu Liu, Yuzhen Zhao and Wenping Wang
1600 - 1630	COFFEE/TEA BREAK Venue: Executive Room		

**CONFERENCE PROGRAMME
DAY 1 (TECHNICAL SESSIONS 3)**

(14 NOVEMBER 2016 - MONDAY)

VENUE: BK7

TIME	CHAIRPERSON	TITLE	AUTHORS
1630 - 1730	Prof. Dr. Linqiang	Solving the N-Queens Problem using dP Systems with Active Membranes	Kelvin Buno, Francis George Cabarle, Henry Adorna and Marj Calabia
		Matrix Representation of Parallel Computation for Spiking Neural P Systems	Juan Hu, Guangchun Chen, Hong Peng, Jun Wang, Xiangnian Huang and Xiaohui Luo
		Discrete GSO Based on Time Window Division for Solving Multi-objective VRPTW	Wenbo Dong, Zhou Kang and Qi Huaqing
1730	END OF SESSION		

**CONFERENCE PROGRAMME
DAY 1 (TECHNICAL SESSIONS 1)**

(14 NOVEMBER 2016 - MONDAY)

VENUE: BK8

TIME	CHAIRPERSON	TITLE	AUTHORS
1400 - 1500	Prof. Dr. K.G. Subramanian	MPSO with Exchange-Tree Mechanism for Traffic Network Layout Optimization Problem	Yingying Duan, Kang Zhou and Huaqing Qi
		Application of MTabu with Time Classifier in Vehicle Routing Problem with Time Windows	Yingying Duan, Kang Zhou and Huaqing Qi
		Solving some Computationally Hard Problems using Numerical P Systems with Thresholds	Nestine Hope Hernandez and Francis George Cabarle

**CONFERENCE PROGRAMME
DAY 1 (TECHNICAL SESSIONS 2)**

(14 NOVEMBER 2016 - MONDAY)

VENUE: BK8

TIME	CHAIRPERSON	TITLE	AUTHORS
1500 - 1600	Prof. Dr. K.G. Subramanian	Spiking Neural P Systems with Anti-spikes and without Annihilating Priority as Number Generator	Xun Wang, Ma Tongmao, Shaohua Hao, Tao Song and Shanchen Pang
		Implementation of Information Fusion based on Spike Neural P Systems	Yangyang He, Gexiang Zhang, Kang Huang and Tao Wang
		Criteria for designing membrane systems	Ali Maroosi and Ravie Chandren Muniyandi
1600 - 1630	COFFEE/TEA BREAK Venue: Executive Room		

**CONFERENCE PROGRAMME
DAY 1 (TECHNICAL SESSIONS 3)**

(14 NOVEMBER 2016 - MONDAY)

VENUE: BK8

TIME	CHAIRPERSON	TITLE	AUTHORS
1630 - 1730	Prof. Dr. K.G. Subramanian	Multiple Core Execution of Kernel P System-Multi Objective Binary Particle Swarm Optimization Feature Selection Method for Cancer Classification	Naeimeh Elkhani and Ravie Chandren Muniyandi
		A Density-Grid based Algorithm by Weighted Spiking Neural P Systems with Antispikes and Astrocyte in Spatial Cluster Analysis	Jie Xue, Xiyu Liu and Wenxing Sun
		The Computational Power of Array P System with Mate Operation	Helen Chandra, Saroja Theerdus Kalavathy and M.Nithya Kalyani
1730	END OF SESSION		

**CONFERENCE PROGRAMME
DAY 2 (TECHNICAL SESSIONS 4)**

(15 NOVEMBER 2016 - TUESDAY)

VENUE: BK7

TIME	CHAIRPERSON	TITLE	AUTHORS
1130 - 1230	Prof. Dr. Linqiang	The Computational Power of Enzymatic Numerical P Systems Working in the Sequential Mode	Zhiqiang Zhang, Yansen Su and Linqiang Pan
		Tissue P Systems with Promoters Working in the Flat Maximally Parallel Way	Bosheng Song, Yanfeng Wang and Linqiang Pan
		The Computational Power of Watson-Crick Grammars: Revisited	Nurul Liyana Mohamad Zulkufli, Sherzod Turaev, Mohd Izzuddin Mohd Tamrin and Messikh Azeddine
1230	LUNCH Venue: Executive Room		

**CONFERENCE PROGRAMME
DAY 2 (TECHNICAL SESSIONS 5)**

(15 NOVEMBER 2016 - TUESDAY)

VENUE: BK7

TIME	CHAIRPERSON	TITLE	AUTHORS
1400 - 1500	Prof. Dr. Linqiang	Integrated membrane computing framework for modeling intrusion detection systems	Kazeem Rufai, Ravie Chandren Muniyandi and Zulaiha Ali Othman
		An Improvement of Small Universal Spiking Neural P Systems with Anti-Spikes	Liu Shuo, Zhou Kang, Zeng Shan, Qi Huaqing and Chen Xing
		Process Guided P System with Graph Productions and Applications	Sureshkumar Williams, Kalpana Mahalingam and Rama Raghavan

**CONFERENCE PROGRAMME
DAY 2 (TECHNICAL SESSIONS 6)**

(15 NOVEMBER 2016 - TUESDAY)

VENUE: BK7

TIME	CHAIRPERSON	TITLE	AUTHORS
1500 - 1600	Prof. Dr. Linqiang	Language Generating Flat Splicing P Systems	Linqiang Pan, Bosheng Song, Atulya K. Nagar and K G Subramanian
		The Implementation of membrane clustering algorithm based on FPGA	Yang Yunying, Wang Jun and Peng Hong
		CuSNP: Spiking Neural P Systems Simulators in CUDA	Jym Paul Carandang, John Matthew Villaflores, Francis George Cabarle, Henry Adorna and Miguel Á. Martínez-Del-Amor
1600 - 1630	COFFEE/TEA BREAK Venue: Executive Room		

**CONFERENCE PROGRAMME
DAY 2 (TECHNICAL SESSIONS 4)**

(15 NOVEMBER 2016 - TUESDAY)

VENUE: BK8

TIME	CHAIRPERSON	TITLE	AUTHORS
1130 - 1230	Prof. Dr. K.G. Subramanian	Tools and Simulators for Membrane Computing - A Literature Review	Raghavan S and Chandrasekaran K
		A Software Tool for Computer-Aided Design of Cell-like Spiking Neural P Systems	Luis Valencia-Cabrera, Tingfang Wu, Zhiqiang Zhang, Linqiang Pan and Mario J. Perez-Jimenez
		Parallel Contextual Hexagonal Array P Systems	S. James Immanuel, D.G. Thomas, Robinson Thamburaj and Atulya Nagar
1230 - 1400	LUNCH Venue: Executive Room		

**CONFERENCE PROGRAMME
DAY 2 (TECHNICAL SESSIONS 5)**

(15 NOVEMBER 2016 - TUESDAY)

VENUE: BK8

TIME	CHAIRPERSON	TITLE	AUTHORS
1400 - 1500	Prof. Dr. K.G. Subramanian	Superadiabatic STIRAP: Population transfer and quantum rotation gates	Messikh Azeddine and Youssouf Hamidou Issoufa
		A Genetic Algorithm based Approach for Solving the Minimum Dominating Set of Queens	Saad Alharbi and Ibrahim Venkat
		Array-rewriting P Systems with Basic Puzzle Grammar rules and Permitting Features	Pradeep Isawasan, Ravie Chandren Muniyandi, Ibrahim Venkat and K G Subramanian

**CONFERENCE PROGRAMME
DAY 2 (TECHNICAL SESSIONS 6)**

(15 NOVEMBER 2016 - TUESDAY)

VENUE: BK8

TIME	CHAIRPERSON	TITLE	AUTHORS
1500 - 1600	Prof. Dr. K.G. Subramanian	Solution to Motif Finding Problem in Membranes	Katrina Gapuz, Ephraim Mendoza, Richelle Ann Juay-ong, Nestine Hope Hernandez, Francis George Cabarleand Henry Adorna
		Image Segmentation using Membrane Computing: A Literature Survey	Rafaa Yahya, Siti Mariyam Shamsuddin, Salah Yahya, Shafatunnur Hasan, Bisan Alsalibi and Ghadah Al-Khafaji
1600 - 1630	COFFEE/TEA BREAK Venue: Executive Room		