

# Mohd. Asyraf Mansor, Ph.D.

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## 📁 Employment and Teaching Experiences

- |                                |   |
|--------------------------------|---|
| April 2018 – Now               | 📌 <b>Lecturer.</b> Mathematics Section, School of Distance Education, Universiti Sains Malaysia.                        |
| January 2017 – June 2017       | 📌 <b>Tutor.</b> School of Mathematical Sciences, Universiti Sains Malaysia. (MSS 381: Mathematical Software Laboratory) |
| September 2016 – December 2016 | 📌 <b>Tutor.</b> School of Mathematical Sciences, Universiti Sains Malaysia. (MSG 382: Introductory Numerical Methods)   |
| January 2016 – June 2016       | 📌 <b>Tutor.</b> School of Mathematical Sciences, Universiti Sains Malaysia. (MAT 282: Engineering Computation 1)        |
| September 2015 – December 2015 | 📌 <b>Tutor.</b> School of Mathematical Sciences, Universiti Sains Malaysia. (MSG 389: Engineering Computation 2)        |
| February 2015 – June 2015      | 📌 <b>Tutor.</b> School of Mathematical Sciences, Universiti Sains Malaysia. (MAT 282: Engineering Computation 1)        |
| October 2014 – January 2015    | 📌 <b>Private Tutor.</b> Pusat Tuisyen Bestari SJ, Sibul, Sarawak. (Additional Mathematics)                              |
| June 2013 – September 2013     | 📌 <b>Teacher.</b> SMK Sibul Jaya, Sibul, Sarawak. (English and Additional Mathematics)                                  |
| January 2013 – May 2013        | 📌 <b>Teacher.</b> SMA Al-Irshad, Pulau Pinang. (Mathematics and Additional Mathematics)                                 |



## 🎓 Education

- |             |  |
|-------------|--|
| 2015 – 2017 | 📌 <b>Ph.D., Universiti Sains Malaysia, Malaysia</b> in Neural Networks.<br>Thesis title: <i>Enhanced Hopfield Neural Network with Artificial Immune System Algorithm for Satisfiability Logic Programming.</i> |
| 2013 – 2014 | 📌 <b>M.Sc. Mathematics, Universiti Sains Malaysia, Malaysia</b><br>Thesis title: <i>Activation Function Comparison in Symbolic Integration.</i><br>CGPA: 4.00  |
| 2009 – 2013 | 📌 <b>B.Sc. with Edu. (Hons) (Mathematics), Universiti Sains Malaysia, Malaysia.</b><br>CGPA: 3.43  |
| 2008 – 2009 | 📌 <b>Ministry of Education Malaysia (MOE) Matriculation (Science Stream), Labuan Matriculation College, Malaysia.</b><br>CGPA: 3.77  |
| 2003 – 2007 | 📌 <b>Sijil Pelajaran Malaysia (SPM), SMK Sibul Jaya, Sibul, Sarawak, Malaysia.</b><br>Result: 9A1, 2A2, 2B3. (English and Bahasa Melayu=A1)  |






### Journal Articles

- 1  Kasihmuddin, M.S.M., **Mansor, M.A.**, and Sathasivam, S., (2018). Discrete Hopfield Neural Network in Restricted Maximum k-Satisfiability Logic Programming. *Sains Malaysiana*,**47**(6), 1327-1335. [ISI]
- 2  **Mansor, M.A.**, Kasihmuddin, M.S.B.M. and Sathasivam, S. (2017). Robust Artificial Immune System in the Hopfield network for Maximum k-Satisfiability. *International Journal of Interactive Multimedia and Artificial Inteligence*, **4**(4), 63-71. [ISI]
- 3  **Mansor, M.A.**, Kasihmuddin, M.S.M. and Sathasivam, S., (2017). Artificial Immune System Paradigm in the Hopfield Network for 3-Satisfiability Problem. *Pertanika Journal of Science and Technology*, **25**(4), 1173-1188. [SCOPUS]
- 4  **Mansor, M.A.**, and Sathasivam, S. (2016). Accelerating Activation Function for 3-Satisfiability Logic Programming. *International Journal of Intelligent Systems & Applications*, **8**(10), 44-50. [SCOPUS]
- 5  **Mansor, M.A.**, Kasihmuddin, M.S.M. and Sathasivam, S. (2016). VLSI Circuit Configuration Using Satisfiability Logic in Hopfield Network. *International Journal of Intelligent Systems & Applications*, **8**(9), 22-29. [SCOPUS]
- 6  **Mansor, M.A.**, Kasihmuddin, M.S.M. and Sathasivam, S. (2016). Enhanced Hopfield Network for Pattern Satisfiability Optimization. *International Journal of Intelligent Systems & Applications*, **8**(11), 27-33. [SCOPUS]
- 7  Kasihmuddin, M.S.B.M., **Mansor, M.A.**, and Sathasivam, S. (2017). Genetic Algorithm for Restricted Maximum k-Satisfiability in the Hopfield Network. *International Journal of Interactive Multimedia and Artificial Inteligence*, **4**, 52-60. [ISI]
- 8  Kasihmuddin, M.S.B.M., **Mansor, M.A.**, and Sathasivam, S. (2017). Hybrid Genetic Algorithm in the Hopfield Network for Logic Satisfiability Problem. *Pertanika Journal of Science and Technology*, **25**(1),139-152. [SCOPUS]
- 9  Kasihmuddin, M.S.B.M., **Mansor, M.A.**, and Sathasivam, S. (2017). Robust Artificial Bee Colony in the Hopfield Network for 2-Satisfiability Problem. *Pertanika Journal of Science and Technology*, **25**(2),453-468. [SCOPUS]
- 10  Alzaeemi, S.A.S, Adebayo, S.A., Kasihmuddin, M.S.M., **Mansor, M.A.** and Sathasivam, S., (2017). Use of Genetic Algorithm for Hopfield Neural Network to do Logic Programming. *Bio-Genetics Journal*,**5**(1), 101-113. [SCOPUS]
- 11  Kasihmuddin, M.S.M., **Mansor, M.A.** and Sathasivam, S., (2016). Bezier Curves Satisfiability Model in Enhanced Hopfield Network. *International Journal of Intelligent Systems & Applications*, **8**(12), 9-17. [SCOPUS]
- 12  Kasihmuddin, M.S.M., **Mansor, M.A.** and Sathasivam, S., (2016). Artificial Bee Colony in the Hopfield Network for Maximum k-Satisfiability Problem. *Journal of Informatics and Mathematical Sciences (JIMS)*,**8**(5), 317-334. [ISI]






### Conference Proceedings

- 1  **Mansor, M. A.**, Sathasivam, S. and Kasihmuddin, M. S. M. (2017, August). Post Optimization Paradigm in Maximum 3-Satisfiability Logic Programming, *AIP Conference Proceedings* (Vol. 1870, No. 1, p. 050004). AIP Publishing. [ISI & SCOPUS]
- 2  **Mansor, M. A.**, Sathasivam, S. and Kasihmuddin, M. S. M. (2017, August). Artificial Immune System Algorithm in VLSI Circuit Configuration, *AIP Conference Proceedings* (Vol. 1870, No. 1, p. 050003). AIP Publishing. [ISI & SCOPUS]

## Research Publications (continued)






- 3  **Mansor, M. A.**, Kasihmuddin, M. S. M. and Sathasivam, S. (2017). 3-Satisfiability Logic Programming Approach for Cardiovascular Disease Diagnosis, *25th Malaysian National Symposium of Mathematical Sciences (SKSM25) UITM, Pahang, Malaysia*. [ISI & SCOPUS] (IN PRESS)
- 4  **Mansor, M. A.**, Kasihmuddin, M. S. M. and Sathasivam, S. (2017). Enhanced Metaheuristic Approach in Pattern Satisfiability Problem, *25th Malaysian National Symposium of Mathematical Sciences (SKSM25) UITM, Pahang, Malaysia*. [ISI & SCOPUS] (IN PRESS)
- 5  **Mansor, M. A.**, Kasihmuddin, M. S. M., and Sathasivam, S. (2017). Artificial Immune System Algorithm with Neural Network Approach for Social Media Performance Metrics, *25th Malaysian National Symposium of Mathematical Sciences (SKSM25) UITM, Pahang, Malaysia*. [ISI & SCOPUS] (IN PRESS)
- 6  **Mansor, M. A.**, and Sathasivam, S., (2016, June). Performance analysis of activation function in higher order logic programming. In *ADVANCES IN INDUSTRIAL AND APPLIED MATHEMATICS: Proceedings of 23rd Malaysian National Symposium of Mathematical Sciences (SKSM23)* (Vol. 1750, No. 1, p. 030007). AIP Publishing. [ISI & SCOPUS]
- 7  **Mansor, M. A.**, and Sathasivam, S., (2016, June). Activation function comparison in neural-symbolic integration. In *ADVANCES IN INDUSTRIAL AND APPLIED MATHEMATICS: Proceedings of 23rd Malaysian National Symposium of Mathematical Sciences (SKSM23)* (Vol. 1750, No. 1, p. 020013). AIP Publishing. [ISI & SCOPUS]

## Skills

Languages	 <b>Bahasa Malaysia:</b> Strong reading, writing and speaking proficiencies. <b>English:</b> Strong reading, writing and speaking proficiencies.
Coding/Programming	 Wolfram Mathematica, MATLAB, C++, C, Netlogo, L <sup>A</sup> T <sub>E</sub> X, Python.
Computer Skills	 Microsoft Office, Spreadsheets, Microsoft Access, Adobe Photoshop, Adobe Illustrator, Email.
Operating System	 Windows 10, Windows 8.1, MacOS, Linux, Ubuntu.
Miscellaneous Skills	 Academic research, Teaching, Data analysis, Geometer Sketchpad, Smart Board, Texas Instrument Graphic Calculator, L <sup>A</sup> T <sub>E</sub> X typesetting and publishing, E-Learning.




## Miscellaneous Experiences and Achievements

### Awards

- 2017  Elsevier's Outstanding Reviewer Award, *Journal of King Saud University-Computer and Information Sciences*, King Saud University.  
 **Graduate On Time (GOT) Award**, Institute of Postgraduates Studies, Universiti Sains Malaysia, Penang, Malaysia.
- 2015  **Best Postgraduate Student for Coursework and Mixed Mode Master Programme**, Persada Kencana Award, Institute of Postgraduates Studies, Universiti Sains Malaysia, Penang, Malaysia.  
 **Invited External Panel**, SMARTeX Solar Car Competition 2015, National Blue Ocean Strategy, Universiti Sains Malaysia, Penang, Malaysia.
- 2014  **USM Gold Medal Award for the best Master of Science Mathematics degree student**, 50th Convocation, Universiti Sains Malaysia, Penang, Malaysia.

## **Miscellaneous Experiences and Achievements** (continued)





### **Certification**

- 2017  **Presenter for 25th National Symposium Science and Mathematics (SKSM25).** Awarded by UiTM and PERSAMA.
- 2016  **Presenter for 24th National Symposium Science and Mathematics (SKSM24).** Awarded by UMT and PERSAMA.
- 2015  **Chairperson for 23th National Symposium Science and Mathematics (SKSM23).** Awarded by UTM and PERSAMA.

### **Seminar or Project**

- 2017  **Chairperson for Joint Mathematics Seminar USM-UMT 2017 on 17 February 2017, USM.** School of Mathematical Sciences, USM and School of Informatics and Applied Mathematics, UMT.
  -  **Invited Speaker for Postgraduate Brainstorming Seminar 3.** School of Mathematical Sciences, USM.
- 2016  **Chairperson for Postgraduate Brainstorming Seminar 2, USM on 13 December 2016.** School of Mathematical Sciences, USM.
  -  **Presenter for Postgraduate Brainstorming Seminar 1, USM on 6 September 2016.** School of Mathematical Sciences, USM.
- 2015  **Participant for Publishing Articles In High-Impact Journals Seminar on 12 November 2015.** School of Mathematical Sciences, USM.
  -  **Participant for Seminar on Informatics in Asia on 15 September 2015.** Kyoto University and School of Mathematical Sciences, USM.



### **Journal Reviewer**



- 1  **Neurocomputing.** Elsevier. ISSN: 0925-2312.
- 2  **Journal of King Saud University-Computer and Information Sciences.** Elsevier. ISSN: 1319-1578.
- 3  **Pertanika Journal of Science & Technology (JST).** UPM. ISSN: 01287680.
- 4  **International Journal of Interactive Media & Artificial Intelligence (IJIMAI).** Universidad Internacional de la Rioja. ISSN: 1989-1660.

### **Professional Membership**

- 1  **Member.** Persatuan Sains Matematik Malaysia (PERSAMA).
- 2  **Editorial Board Member.** International Journal of Interactive Multimedia and Artificial Intelligence.

## **References**

**Associate Professor Dr. Saratha Sathasivam**  
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