CURRICULUM VITAE

Prof. Asoka S. Karunananda
Senior Professor

Family Name: Karunananda

Given names: Asoka Somabandu

Email: askarunananda@gmail.com, asokakaru@uom.lk

Telephone: **Office:** 2650301 **Home:** 0112618851 **Mobile:** 0714449504

Official Address: Faculty of Information Technology, University of Moratuwa,
Katubedda, Moratuwa

Permanent address: C11 Sirimal Uyana, Gadabuwana, Piliyandala, Sri Lanka

EDUCATIONAL QUALIFICATIONS

1992-1995   **PhD,** Computer Science (Artificial Intelligence)**,** Keele University, UK

1989-1992   **MPhil,** Computer Science, Open University of Sri Lanka

1981-1985   **BSc. (Hons)**, 2nd Class Upper Division, Special Degree in Mathematics
University of Colombo, Sri Lanka

MEMBERSHIPS

2020 -	**Senior Member,** IEEE
2020 -	**Member**, ACM
2012 – Present	**Member,** IEEE
1998-Present	**Member,** Computer Society of Sri Lanka
1996-Present	**Life Member**, Sri Lanka Association for Advancement of Science
1996-Present	**Founder Member**, Sri Lanka Association for Artificial Intelligence

CURRENT EMPLOYER

Senior Professor, Department of Computational Mathematics**,** University of Moratuwa

I am currently involved in teaching and research in areas of Artificial Intelligence, Theory of Computing, Research methods and Philosophy of Science for undergraduate and postgraduate degree programmes. At present, 5 PhD candidates are reading for their doctoral degrees under my supervision. Annually I also supervise more than 10 MSc projects. Nowadays, I am also in the process of introducing a BSc (Hons) degree in Artificial Intelligence the first of such degree in Sri Lanka. My current research includes Complex Systems, Theory of Computing, Ontological Modeling, Multi Agent Systems, Mindfulness Interventions for Education in particular, and Artificial Intelligence in general.

EMPLOYMENT HISTORY

2017- present **Senior Professor,** University of Moratuwa

2014 – 2016   **Dean of Faculty of Computing**, General Sir John
Kotelawala Defence University

2013 – 2016   **Dean of Research and Development,** General Sir John
             Kotelawala Defence University

2009 – 2012   **Dean/Faculty of Information Technology, University of Moratuwa**

2006 - 2009   **Head, Department of Computational Mathematics**

2006 – 2012   **Director/Postgraduate Studies, Faculty of Information Technology**

             Director/Information Technology Research Unit

Feb 12-19, 2007 **Acting Dean/Faculty of Information Technology**

Sep 4-11, 2006 **Acting Dean/Faculty of Information Technology**

Aug 15-22, 2006 **Acting Dean/Faculty of Information Technology**

2005 - 2006   **Senior Lecturer in Computer Science**
             Department of Mathematics and Computer Science, The Open University of Sri Lanka.

2004-2005   **Commonwealth Visiting Research Fellow**
             Department of Information Systems and Computing**,** Brunel University, UK

2001-2004   **Senior Lecturer in Computer Science**
             Department of Mathematics and Computer Science, Open University of Sri Lanka

1995-2001   **Head of the Department of Mathematics**
             Department of Mathematics and Computer Science, Open University of Sri Lanka

1988-1992   **Lecturer in Mathematics**
             Department of Mathematics and Computer Science, Open University of Sri Lanka

1986-1988   **Instructor/Assistant Lecturer in Mathematics**
             Department of Mathematics, University of Colombo, Sri Lanka

RESEARCH ACTIVITIES

Research Interests

- Ontological Modelling
- Multi-Agent Systems
- Machine Learning
- Cognitive Systems
- Local Language Technologies
- Complexity Science
- Behavioral Science
- Theory of Computing

Research Collaborations

Prof. George Rzevski, Centre for Complexity Science Applications, The Open University, UK

Dr. Philippe Goldin, University of California, Davis, United States

Prof. Roshan Perera, Dr. Nishantha Kumarasinghe, Institute for Combinatorial Advanced Research and Education (KDU-CARE), Kotelawala Defence University, Sri Lanka

Prof. **Nihal Kodikara**, Modelling and Simulation Group, University of Colombo, School of Computing, Sri Lanka

Awards

2018   **Excellence in Outstanding research performance with Distinction**, by University of Moratuwa

2017   **Excellence in Outstanding research performance with Distinction**, by University of Moratuwa

2016   **Excellence in Outstanding research performance with Distinction**, by University of Moratuwa

2015   **Excellence in Outstanding research performance**, by University of Moratuwa

2015   **Best Paper award** (jointly with Budditha Hettige), Computing Sessions, KDU 8th International Research Conference, 27th and 28th August 2015.

Best Poster Award, (jointly with J Jayasuriya, JMDGCM Dodandeniya, TK Hettiarachchi, SP Thilakasuriya, WDPS Wejewardana, DMR Kulasekara), Computing Sessions, KDU 8th International Research Conference, 27th and 28th August 2015.

2014   **President's awards for Scientific Publications**, by National Research Council

Special Recognition for receiving President's Award for Scientific Publications in 2013, University of Moratuwa

Excellence in Outstanding research performance, by **University of Moratuwa**

2013   **Best AI Project Award** 2013 (jointly with Mihirini Wagaarachchi) by **Sri Lanka Association for Artificial Intelligence**

Long Service Award, by University of Moratuwa

Excellence in Outstanding research performance, by **University of Moratuwa**

2012   **Best AI Project Award** 2012 (jointly with Prasad Wimalarathne and Wimal Perera) by **Sri Lanka Association for Artificial Intelligence**

Excellence in Outstanding research performance, by **University of Moratuwa**

2011   **Best AI Project Award** 2011 (jointly with GM Rajakaruna and S Jayalal) by **Sri Lanka Association for Artificial Intelligence**

Best Paper Award-2011 (Jointly with Budditha Hettige), **Information Technology Research Unit, University of Moratuwa.**

Excellence in Outstanding research performance, by **University of Moratuwa**

Mn 2010   **Best AI Project Award** 2010 (jointly with HB Walisundara) by **Sri Lanka Association for Artificial Intelligence**

Best Paper Award-2010 (Jointly with Budditha Hettige), **Information Technology Research Unit, University of Moratuwa.**

Excellence in Outstanding research performance, by **University of Moratuwa**

2009	**Teaching Excellence Award** 2009 by **University of Moratuwa**

Excellence in Outstanding research performance, by **University of Moratuwa**

2009	**Best Paper Award**-2009 (Jointly with Budditha Hettige), **Information Technology Research Unit, University of Moratuwa.**

Excellence in Outstanding research performance, by **University of Moratuwa**

2008	**Best AI Project Award** (Jointly with Buddhita Hettige) 2008 by **Sri Lanka Association for Artificial Intelligence**

Excellence in Outstanding research performance, by **University of Moratuwa**

2007	**National Award for Popularization of Science** by **National Science Foundation**

Excellence in Outstanding research performance, by **University of Moratuwa**

Best AI Project Award 2007 (jointly with Subha Fernando) by **Sri Lanka Association for Artificial Intelligence**

2006	**The CVCD Excellence Award** (jointly with Prof. SR De Chandrakeerthi) for the Most Outstanding Researcher in Technology and Allied Sciences by **Committee of Vice Chancellors and Directors of Sri Lanka (CVCD)**

 Excellence in Outstanding research performance, by **University of Moratuwa**

Best AI Project Award 2006 by **Sri Lanka Association for Artificial Intelligence**

Felicitation Award – Outstanding Contribution to the Development to the Open University of Sri Lanka, by the Open University of Sri Lanka

2005	**Young Scientist Award for Excellence in Popularization of Science** by **National Science and Technology Commission (NASTEC)**

Excellence in Outstanding research performance, by **University of Moratuwa**

2004	**Commonwealth Research Fellowship** at the Brunel University, awarded by **Commonwealth Scholarship Commission**

Best Undergraduate project award (supervised by me), awarded by **Health Informatics Society of Sri Lanka**

Best Postgraduate research project award (supervised by me), awarded by **Sri Lanka Association for the Advancement of Science**

2001	**Science Popularization award for the best Science Communicator**, by **Sri Lanka Association for the Advancement of Sciences**

1992/95	**Commonwealth Scholarship** for Doctoral Degree programme at Keele University, awarded by **Commonwealth Scholarship Commission**

Research Grants

2011-2014	Grant for setting up a Postgraduate Research Laboratory and Artificial Intelligence Research Laboratory, under 100M **Grant for Transformation of University of Moratuwa to an International Level University**
2002-2006	Research Grant for Split-Site PhD degree, linking with Leeds University (UK), Foreign supervisor: Prof. A.G. Cohn; Domestic Supervisor: Dr. Asoka S. Karunananda Funded by **Commonwealth Scholarship Commission**
2004-onwards	Research Grant for Split-Site PhD degree, linking with Stockholm University (Sweden). Foreign supervisors: Prof Henrik Bostrom and Prof Pierre Wijkman, Domestic supervisor: Dr. Asoka S. Karunananda, Funded by **Swedish International Development Agency** (ongoing)
1998-2000	Grant for Developing a Computer Science Laboratory for the Department of Mathematics and Computer Science of the Open University of Sri Lanka, Funded by **Asian Development Bank**
1998-2001	Grant for development of a Knowledge-Based System for the Open University of Sri Lanka and to conduct of MPhil projects, International Consultant: Prof. George Rzevski, Domestic Supervisor: Dr. Asoka. S. Karunananda, Funded by **Overseas Development Agency (UK)**

MPhil/PhD Supervision

PhD (awarded)	Tashmee Karunaratne, Open Uiversity of Sri Lanaka Jointly with Stockholm University
PhD (awarded)	Menaka Ransinghe, Open Uiversity of Sri Lanaka jointly with Leeds University, UK
PhD (ongoing)	Mihirini Wagarachchi, University of Moratuwa
PhD (ongoing)	Chintani Weerakkody, University of Moratuwa
PhD (ongoing)	Buddhitha Hettige, University of Moratuwa
PhD (ongoing)	Kalana Mendis, Open University of Sri Lanka
MPhil (awarded)	Thashmee Karunaratne, Open University of Sri Lanka
MPhil (awarded)	Chandrika Fernando, Open University of Sri Lanka
MPhil (awarded)	Irosh Fernando, Open University of Sri Lanka
MPhil (awarded)	Kalana Mendis, Open University of Sri Lanka
MPhil ((awarded)	Budditha Hettige, University of Moratuwa
MPhil (awarded)	SN Dissanayake, Open University of Sri Lanka

MPhil/PhD Evaluation

2018	Panel of Examination (**Chairman**) – **PhD** of PTRS Sugathadasa University of Moratuwa, 25th July 2018
	Panel of Examination (**Chairman**) – **PhD** of SANS Kususmsiri, University of Moratuwa, 22nd May 2018
	Panel of Examiners (**External Examiner**) – **MPhil** of Gamage Nandasena, University of Sri Jayawardenapura, 18th January 2018

2017	Panel of Examiners (**External Examiner**) – **MPhil** of IID Ariyasinghe, University of Sri Jayawardenapura,
2016	Panel of Examiners (**External Examiner**) – **PhD** of WA Indidka, University fo Colombo School of Computing,

Training

2016	Conference on Homeland Security, COMPASS Ventures Group, 20th July 2016, Cinnamon Grand Hotel, Colombo
2014	Horizon 2020: Collaborating with EU researchers for Research Excellence, 2nd December 2014, University Grants Commission
	Workshop on Supervision Challengers in Higher Degree Research, 4th March 2014, FGS, University of Colombo
	Roundtable on Development of a national Policy Framework for Open and Distance Learning (ODL) in Higher Education for Sri Lanka, 28-29 January 2014
	Workshop on Second Technology and Innovation Support Center (TISC) on developing the TISC project and technological knowledge, organized by WIPO and NIPO of Sri Lanka, Colombo July 30 – August 1, 2014
2013	Visit to research team (Philippe Goldin) at the Clinically Applied Affective Neuroscience laboratory in the Department of Psychology at Stanford University, December 2013.
2012	Conference for University Lecturers by Central Bank of Sri Lanka, 29th -30th June 2012
2011	Conference for University Lecturers by Central Bank of Sri Lanka, 14th May 2011
2008	Development of Multi Agent Systems, by Anastasios of Rzevski Solutions, UK March 14-26, 2008
2007	Online Tutoring and Mentoring WS, Distance Education Partnership Programme, SLIDA, 2007 (February 8-9; March 1-2,23)
	Staff Development Programme to Enhance Personal Effectiveness, Conducted by Postgraduate Institute of Management, 16th January and 30th January 2007
2006	International Conference on Industrial and Information System, 18-11 August 2006, Peradeniya
	Instructional Design for Online Learning, Ministry of Education, Distance Education Partnership Programme, 2006 (January 27&28; February 6,20,21; March 3, 13; July 19,23)
2005	International Conference on Information and Automation, December 15-18, 2005, Colombo
	Eight International Conference on Humans and Computers (HC 2005) Japan, August 31 – 3rd September
2004/05	Ontological modeling for complex systems, Visiting Research Fellowship at Brunel University

2002	Workshop on Feature Selection and Artificial Neural Network Analysis, Sri Lanka Association for Artificial Intelligence
2001	Workshop on Leadership and Team Building, Staff Development centre, University of Colombo, Sri Lanka
2000	South East Asian Regional Computer Confederation, Philippines Computing Science Congress, Manila
1998	Workshop on Office Ergonomics, Global Conventions Pvt., Sri Lanka
1997	International Conference on Power Electronics and Drive Systems, PEDS'97 Singapore
1996	Australian Universities Power Engineering Conference, AUPEC'96, Australia
1995	European Conference on Cognitive Science, ECCS'95, Saint-Malo, France
1992	Workshop on How to get a PhD, AISB'93, UK

Evaluation of Research Grants

2005	Algorithm development for computation grids, National Science Foundation
2004	Development of computerized Data Handling & Decision support system for Hospital sector in Sri Lanka, National Science Foundation
2004	Analysis and Interpretation of Sri Lankan Parliamentary general election results in relation to modifiable spatial, National Science Foundation
2003	Simulation of Interictal Spikes in Human Epileptic Brain Using Neural Networks, National Science Foundation
2001	Usage of Library Software in Sri Lanka – Historical Development and present status, National Science Foundation
	Development of an Artificial Intelligence based critical care decision support system in Sri Lanka, National Science Foundation

Served in Professorial Evaluation

2018	Senate Nominee, Promotion to the Post of Senior Professor, Prof, NGJ Dias, University of Kelaniya, 3rd August 2018
	External Evaluator, Post of Professor (Chair), Dr. Prasad Jayaweera, University of Sri Jayawardenapura
2017	Panel member to evaluate Section 1 and Section 3.2 of Mr. Wijjayapala's application for the Post of Professor, University of Moratwa, 8th November 2017
2017	Panel member to evaluate Section 1 and Section 3.2 of Dr ADUS Amarasinghe's application for the Post of Professor, University of Moratwa, 20th September 2017

2017	Panel member to evaluate Section 1 and Section 3.2 of Dr PG Ratnasiri's application for the Post of Professor, University of Moratwa, 20th September 2017
2017	UGC Nominee, Post of Professor (Chair), Dr. PA Jayantha, University of Ruhuna
2017	UGC Nominee, Post of Professor, Dr. YPRD Yapa, University of Peradeniay
2017	Senate Nominee, Post of Professor, Dr. AG Johnpillai, Easter University
2016	UGC Nominee, Post of Professor, Dr. BMSG Banneheka, University of Jayewardeneoura
2015	UGC Nominee, Post of Professor (Chair), Prof. Upul Sonnadara, University of Colombo
2014	UGC Nominee, Post of Professor, Dr RAD Piyadasa, University of Kelaniya
2013	External Evaluator, Post of Professor, Dr. KP Hewagamage', University of Colombo
2012	UGC Nominee, Post of Professor, Dr RGN Meegama, University of Sri Jayewardenepura
2010	External Evaluator, Post of Professor, Dr. NGJ Dias, University of Colombo
2009	External Evaluator, Post of Professor, Dr. ND Kodikara, University of Colombo
2009	External Evaluator, Post of Professor, Dr. SR Kodithuwakku, University of Colombo
2008	External Evaluator, Post of Professor, Dr. Gihan Wickramanayake, University of Colombo

Reviewer, Keynote speaker and Chair of International Journals/Conferences

2019	**Guest speaker**, Inauguration ceremony of Masters Programmes, 2018/2019 intake, University of Colombo School of Computing, 22nd June
2018	**Resource Person:** AI Asia, Organized by SLASSCOM in Coolaboration with Sri Lanka Association for Artificial Intelligence, 7th November 2018, Kings Bury
	Speaker: AI meetup at Virtusa, Organized by Virtusa, 23rd October 2018, Virtusa Auditorium
	Reviewer: Specialization BSc(Hons) degree, Faculty of Computing and Technology, University of Kelaniya
	Reviewer: BSc(Hons) in Computer Science and Mathematics, University of Ruhuna
	Reviewer: ICT syllabus of GCE (A/L) for National Institute of Education
	Reviewer: ICT syllabus of National Colleges of Education, National Institute of Education
	Reviewer: International conference on Neuroscience and Cognitive Brain Information, 2018

2017	**Session Chair**: SLAAI – International Conference on Artificial Intelligence, 31st October 2017, University of Moratuwa

2017   **Session Chair**: SLAAI – International Conference on Artificial Intelligence, 31st October 2017, University of Moratuwa

Plenary Speaker – International Research Symposium on Pure and Applied Sciences, IRSPAS 2017, University of Kealniya, Sri Lanka, 20th October, 2017

Member: International Scientific Advisory Committee – Complex Systems 2017
Reviewer: International Conference on Complex Systems 2017
Reviewer: International conference on Neuroscience and Cognitive Brain Information, 2017
Reviewer: International Conference on Advances in ICT for Emerging Regions
Reviewer: International Conference on Industrial Information Systems (ICIIS), University of Peradeniya

2016   **Reviewer:** International Conference on Big Data
Member: International Scientific Advisory Committee – Big Data 2016
Reviewer: International Conference on Advances in ICT for Emerging Regions
Reviewer: International Research Conference, Kotelawala Defence University (KDU-IRC)

2015   **Resource person**: Workshop on Data Mining and Applications, 2015 IEEE 10th International Conference on Industrial Information Systems (ICIIS), University of Peradeniya, 17-20 December 2015.

Keynote speaker: Inaugural ceremony of 13th International Conference on Social Implications on Computers in Developing Countries, jointly organized by University of Oslo and University of Kelaniya, Negombo, 20-22 May 2015

I**nvited speaker:** International Conference on Complex Systems in Business, Administration, Science and Engineering, Complex Systems 2015, 12-14 May, New Forest, UK

Keynote speaker: Future Trends in Artificial Intelligence, 12th Annual Sessions of Sri Lankan Association for Artificial Intelligence, 20th March, 2015, Open University of Sri Lanka

Resource person: Pre Congress Workshop Research Communication, 31st Annual Scientific Sessions 2015, College of Anesthesiologists and Itensivists of Sri Lanka, 17-18 January 2015

Member: International Scientific Advisory Committee – Complex Systems 2015

Reviewer: Journal of the National Science Foundation of Sri Lanka
Reviewer: International Conference on Advances in ICT for Emerging Regions
Reviewer: International Research Conference, Kotelawala Defence University (KDU-IRC)

Resource person: Workshop on Data Mining Techniques and Applications, International Conference on Information

2014   **Evaluator:** CVCD Excellence award 2014

Reviewer: International Conference on Complex Systems
Reviewer: Journal of the National Science Foundation of Sri Lanka
Reviewer: International Conference on Advances in ICT for Emerging Regions
Reviewer: International Research Conference, Kotelawala Defence University (KDU-IRC)

2013	**Reviewer:** Journal of the National Science Foundation of Sri Lanka
	Reviewer: International Conference on Advances in ICT for Emerging Regions
2012	**Reviewer,** Journal of the National Science Foundation of Sri Lanka
	Reviewer: Journal of Science, University of Kelaniya
	Reviewer: Annual Session of Sri Lanka Association for Artificial Intelligence
2011	**Chairman,** MOC – ITRU Research Symposium 2011
	Reviewer: International Conference on Advances in ICT for Emerging Regions
	Reviewer: Annual Session of Sri Lanka Association for Artificial Intelligence
2011	**Member,** MOC – 3rd Joint National Conference on Information Technology in Agriculture 2011
2011	**Session Chair** – International Conference on Advances in ICT for Emerging Regions

2010   **Keynote speaker**: Research Symposium, Uva Wellassa University, 17th September 2010

Session Chair: Research Symposium, Uva Wellassa University, 17th September 2010

Special guest lecture on New Trends in Computing, Sabaragamuwa University of Sri Lanka, 14th September 2010

2009	**Invited Speaker** – Unexplored directions for the IT industry in Sri Lanka, 27th National Information Technology Conference, 9-10th September 2009
2008	**Session Chair**, International Conference on Information and Automaton for Sustainability, Colombo

Session Chair, Workshop on Rural Development in Sri Lanka – Dynamics and perspectives, Hector Kobbekaduwa Agrarian Research and Training Institute, 11th November 2008

Session Chair, Intelligent Systems, International Information Technology Conference (IITC) 2008, Colombo

Reviewer: International Information Technology Conference (IITC) 2008

Reviewer: Peradeniya University Research Sessions

Reviewer: Fifth Annual Sessions of Sri Lanka Association for AI

Evaluator: CVDC Excellence award 2008

2007	**Session Chair**, Video Coding and Mobile & Wireless Communication, 2nd International Conference on Industrial and Information Systems, 9th-11th August 2007, Peradeniya, Sri Lanka
2006	**Reviewer:** International Journal of Cases on Electronic Commerce (IJCEC) *Special issue: E-government Integration and architecture*

Reviewer: International Information Technology Conference (IITC) 2006

Reviewer: International Conference on Humans and Computers (HC2006)

Reviewer: Annual Session of Sri Lanka Association for Artificial Intelligence

Articles in Refereed Journals

1. Dushyathi U Vidanagamage, Thushari P Silva, **Asoka S Karunananda** (2020), Deceptive Consumer review detection – a survey, Artificial Intelligence Review, volume 42, page 3-32

2. Chathurangi Shyalika, Thushari Silva, **Asoka Karunananda** (2020), Reinforcement Learning in Dynamic Task Scheduling: A Review, SN Computer Science (2020) 1:306, Springer Nature

3. Weerakoon. C, **Karunananda, A**., Dias, N, (2020), Human-mind-inspired processing model for computing, Mind and Society, 19:237-256,

4. Chinthanie Weerakoon, **Asoka arunananda**,, Neomal Dias (2019), Formal verification of conditionally evolving memory, Internationa Journal of Computer Engineering and Information Technology, Vol 11, No. 11

5. Devaradura Somindra Kalana Mendis, Hemali Uditha Wijewardane Ratnayake, **Asoka Somabandu Karunananda**, Samaratunga Wedage Udaya Samaratunga (2020), An artificial intelligence methodology for enhancing Sugeno defuzzification method, Int. J. Fuzzy Computation and Modelling, Vol. 3, No. 2, 2020

6. N.M. Wagarachchi and **A.S. Karunananda** (2017), Optimization of artificial neural network architecture using neuroplasticity, International Journal of Artificial Intelligence, 15, 1, pages 112-125

7. L D S B Weerasinghe, B Hettige, R P S Kathriarachchi and A S Karunananda (2017). Resource Sharing in Distributed Environment using Multi-agent Technology. *International Journal of Computer Applications* 167(5):28-32, June 2017.

8. Jayalath D. D. A. C. J, Wimalaratne S. P. W, **Karunananda A. S**. (2016), Modelling Goal Selection of Characters in Primary Groups in Crowd Simulation, International Journal of Simulation and Modeling, Vo. 15, Issue 4, pp 585-596, 2016, ISSN 1726-4529, DOI:10.2507/IJSIMM15(4)1.323.

9. **Asoka S Karunananda**, Philippe R Goldin, P.D. Talagala (2016), Examining the Mindfulness in Education, International Journal of Modern Education and Computer Science, IJMECS, Vol. 8, No 12, pp 23-30, 2016, DOI: 10.5815/ijmecs.2016.12.4

10. M. Harindra R. Fernando, **Asoka S. Karunananda**, Roshan R. Perera (2016), NanoAgents: Molecular Docking Using Multi-Agent Technology, International Journal of Artificial Intelligence and Expert Systems, Volume 7, Number 3, 37-51

11. B. Bettige, **A. S. Karunananda** & G. Rzevski (2016), *A Multi-agent solution for managing complexity in English to Sinhala Machine translation,* International Journal of Design & Nature and Ecodynamics, Volume 11, Number 2, 88-96

12. L.C. M. Perera, **A. S. Karunananda** (2016), *Using a Multi-Agent System for Supply Chain Management,* International Journal of Design & Nature and Ecodynamics, Volume 11, Number 2, 107-115.

13. **A.S. Karunananda**, P.R. Goldin, G. Rzevski, S. Fernando, H. R. Fernando (2015), *On Computing the behavior of the mind from an Eastern Philosophical Perspectives,* International Journal of Design & Nature and Ecodynamics, Volume 10, Number 3, 224-232.

14. Dakshi T.K. Geeganage, **Asoka S Karunananda** (2015), Ontology Driven Continuous learning Approach, International Journal of Knowledge Engineering, Volume 1, Number 1, 37-42

15. Dharshika N. Koggelahewa, **Asoka S Karunananda** (2015), Ontology Guided Semantic Self Learning Framework, International Journal of Knowledge Engineering, Volume 1, Number 1, 30-36

16. PPG Dinesh Asanka, M.Harindra R. Fernando, A.M. Tharindu B. Adhikari, I.P.V Vithana Pathirage, **Asoka S. Karunananda** (2014)**,** *State of Artificial Intelligence in Sri Lankan Software Industry*, International Journal of Innovative Research in Technology (IJIRT), 1(8), 9-16.

17. PPG Dinesh Asanka, **Asoka S. Karunananda** (2014)**,** *Troubleshooting in Software as a Service (SaaS) Environments using Multi-Agent Technology*, International Journal of Innovative Research in Technology (IJIRT), 1(8), 17-23.

18. DS Kalana Mendis, **Asoka S Karunananda,** Udaya Samaratunga, U. Rathnayake (2014), *Development of Commonsense Knowledge Modeling System for Psychological Assessments in Clinical Psycho, Journal of Health Science 2(2014)*, 41-55.

19. N.M. Wagarachchi and **A.S. Karunananda** (2013), *Novel Technique for Optimizing the hidden layer architecture in Artificial Neural Networks,* American International Journal of Research in Science, Technology, Engineering and Mathematics, pp 1-6, AIJRSTEN 13-303.

20. B.Hettige, **A.S.Karunananda**, G.Rzevski (2013), MaSMT: A Multi-agent System Development Framework for English-Sinhala Machine Translation, International Journal of Computational Linguistics and Natural Language Processing (IJCLNLP), Volume 2 Issue 7 July 2013. page 411–416.

21. DS Kalana Mendis, **Asoka S Karunananda,** Udaya Samaratunga (2009), *A Commonsense Knowledge Modelling system for Qualitative Risk Assessment,* International Journal of Geology, Issue 1, Volume 3, 2009

22. **Karunananda Asoka S.** and Subha Fernando (2009), *Using Ontology Driven e-Learning Agent,* The Journal of Three Dimensional Images, pp 70-82, Vol. 23 No. 1, 2009

23. Vishanth Weerakkody, Yogesh K. Dwivedi and **Asoka Karunananda** (2009), Implementing e-Government in Sri Lanka: Lessons from the UK, Information Technology for Development, pp 171-192, Vol. 15 No. 3, 2009

24. **Karunananda A.S.** (2007), *How can the Open and Distance Learning effectively facilitate IT Education in Sri Lanka?*, OUSL Journal, Vol. 4, pp 53-71

25. Dissanayake S.N, **Karunananda A. S.** and Lekamge D.L. (2007)**,** *Use of Computer Technology for teaching of primary school mathematics*, OUSL Journal, Vol. 4, pp 33-52

26. D. S. Kalana Mendis **Asoka S Karunananda***,* Udaya Samarathunga and Uditha Ratnayake (2007), *An approach to the development of commonsense knowledge modeling system for disaster management,* Artificial Intelligence Review 28: 179-196

27. Mendis D. S. K., **Karunananda A. S.** and Samarathunga U. (2007), *An approach to analysis of human constitutions using a computer model, Ayurveda* Sameekshawa – Journal of Ayurveda, Vol 2, Part 3, pp 190-192

28. Mendis D. S. K., **Karunananda A. S.** and Samarathunga U. (2004), *Multi-Techniques Integrated tacit knowledge modelling system,* International Journal of Information Technology, Vol 9, pp 265-271

29. Mendis D. S. K., **Karunananda A. S.** and Samarathunga U. (2004), *An Expert system for analysing Ayurvedic human constituents, Ayurveda* Sameekshawa – Journal of Ayurveda, Vol 11, Part 1, pp 172-177

30. **Karunananda A. S.** (2002), *Using an Eastern Philosophy for providing a theoretical basis for some heuristics used in Artificial Neural Networks*, Malaysian Journal of Computer Science, Vol 15 No. 2, pp 28-33.

31. **Karunananda, A.S.** (1993), *Computer modelling of the thought process*, International Journal of Computer Applications in Technology 6(2/3), pp135-140.

32. **Karunananda, A.S.** (1997)*, Intelligent Artifacts and their Impact on Energy Management,* OUR Engineering Technology, Volume 3, No.1, pp. 61-67, Open University of Sri Lanka

33. **Karunananda, A.S.** & Ranmuthu, K.T.M. (1996), *A KBS for Reforming of Telecommunication Services in Sri Lanka,* The Open University Review of Engineering Technology, Vol.2, No. 2, pp.61-67, Open University of Sri Lanka

34. **Karunananda, A.S.** (1996). *Facilitating the Construction of Expert Systems*: *Methodologies and Tools*, Engineer: Journal of the Institution of Engineers, Sri Lanka, Vol. 24, No. 2

Publications in International books

1. **Karunananda, A.S.** & Nwana, H. S. & Brereton, O. P. (1995), *Knowledge acquisition using Metaphors,* In Hybrid Problems, Hybrid Solution, Edited by J. Hallam. IOS Press, pp. 121-132.

Refereed publications in conference proceedings

1. B Hettige, **AS Karunananda**, G. Rzevski (2017), Phase-Level English to Sinhala Machine Translation, 2017 IEEE 12th International Conference on Industrial and Information Systems, 13-16 December 2017, Peradeniya, Sri Lanka

2. Jayani Withanawasam, **Asoka Krunananda** (2017), Multi-Agent Based road traffic control optimization, 2017 IEEE 20th International Conference on Intelligent transportation systems (ITS), pp977-981, 16-19 Oct 2017, Yokohama, Japan

3. Senarathne, Charitha. **Karunananda Asoka**, Goldin, Philippe (2016), Framework for Regaining the Modeling of Attention, International Conference Multidisciplinary Academic Research and Global Innovation - MARGI – 2016, 115-123, Beijing, China

4. B Hettige, and **AS Karunananda** (2015), Octopus: A Multi Agent Chatbot , KDU 8th International Research Conference, pp41-47, August 2015, Ratmalana, Sri Lanka

5. HASD Thissera, HMT Paranagama, SC Gajanayaka, TT Sugathadasa, HKK Hewasinghe, DMR Kulasekara, and **AS Karunananda** (2015), AndroCar – Mobile powered car security system,, KDU 8th International Research Conference, pp 128-134, August 2015, Ratmalana, Sri Lanka

6. **Asoka S. Karunananda**, Philippe R. Goldin, George Rzevski, Subha Fernando, and Harindra R. Fernando (2015), On computing behavior of mind from an Eastern Philosophical Perspective, International Conference on Complex Systems 2015, pp 43-53, 12-14 May, New Forest, UK

7. B.Hettige, **A.S.Karunananda**, G. Rzevski (2015),Multi Agent Solution for managing complexity in English to Sinhala machine translation, International Conference on Complex Systems 2015, pp 217-228, 12-14 May, New Forest, UK

8. L.C. M. Perera, **A.S.Karunananda**(2015), Using Multi Agent Systems for supply chain management, International Conference on Complex Systems 2015, pp 242-252, 12-14 May, New Forest, UK

9. Dakshi T.K. Geeganage, Asoka S Karunananda (2015), Ontology Driven Continuous learning Approach, International Conference on Knowledge Engineering, February 2-3, Singapore

10. Dharshika N. Koggelahewa, Asoka S Karunananda (2015), Ontology Guided Semantic Self Learning Framework, International Conference on Knowledge Engineering, February 2-3, Singapore

11. A. M. T. B Adhikari, **A.S.Karunananda** (2015), *Real Time Anomaly Detection of Cloud Data Centers with Multi Agents Swarm,* In Proceedings of the 11th Annual Sessions of Sri Lanka Association for Artificial Intelligence, pp 5-8, 20th March 2015, Open University of Sri Lanka

12. M. H. R. Fernando, **A.S.Karunananda** (2015), *Using Multi Agent Systems for Modeling Complex Systems,* In Proceedings of the 11th Annual Sessions of Sri Lanka Association for Artificial Intelligence, pp 14-13, 14-22h March 2015, Open University of Sri Lanka

13. H. M. Chandrapala, **A.S.Karunananda** (2015), *Automated e-Channelling with Multi Agent Technology,* In Proceedings of the 11th Annual Sessions of Sri Lanka Association for Artificial Intelligence, pp 37-44, 20th March 2015, Open University of Sri Lanka

14. N. Mihirini Wagarachchi and **Asoka S. Karunananda** (2014), Optimization of Multi-layer Artificial Neural Networks using Delta values of Hidden layers, proceedings of the Second International Conference on Advances in Computing, Electronics and Communication (ACEC), pp 47-52, 25-26 October, 2014 Zurich, Switzerland ISBN: 978-1-63248-029-3

15. B Hettige, **AS Karunananda**, G Rzevski (2014), A Sinhala Ontology Generator for English to Sinhala Machine Translation, KDU International Research Conference, pp129-135, August 2014, Ratmalana, Sri Lanka

16. SADC Roshan, DMNCS Dissanayake, LHS De Silva, AG Jayasundara, KMA De Abrew, DMR Kulasekara, AS Karunananda (2014), Household Utility Robot, KDU International Research Conference, pp162-166, August 2014, Ratmalana, Sri Lanka

17. LDSB Weerasinghe, RMJCK Rajaguru, K Malpana, HSS Malalasekara, DS Tennegedara, DMR Kulasekara, **AS Karunananda** (2014), KDU International Research Conference, pp167-173, August 2014, Ratmalana, Sri Lanka

18. Susantha Andradi, **Asoka Karunananda,** Romesh Ranawana (2014), Human Behaviour Modeling for Games using Agents, In Proceedings of the International Conference on Advances in Engineering and Technology, pp 1-6, 29-30 March 2014, Singapore

19. B.Hettige, **A.S.Karunananda**, G. Rzevski (2013), Selected text machine translation for English to Sinhala, Proceedings of the KDU International research Symposium 2013, pp 264-268, 22nd – 23rd, August 2013, Ratmalana, Sri Lanka

20. Prageeth M. Gunathilaka and Asoka S. Karunananda (2013), *Exploiting Bulk Agent Approach for conflict resolution in Multi Agent Systems,* Asia Modelling Symposium (AMS 2013) 7th International Conference on Mathematical Modelling and Computer Simulation, pp 31-37, 23-25 July 2013, Hong Kong and Kaula Lumper-Malaysia

21. N. M. Wagarachchi and **A. S. Karunananda** (2013), Optimization of Multi-layer Artificial Neural Networks using Delta values of Hidden layers, IEEE symposium on Computational Intelligence (SSCI), pp 80-86, Singapore, April 2013.

22. Weerakoon W. A. C., Karunanda A. S. and Dias N. G. J. (2013), *A Tactics Memory for a New Theory of Computing*, The 8th International Conference on Computer Science & Education (ICCSE 2013), pp. 153-158, Sri Lanka

23. L.W.A.I. Dulmini H. De Silva, Dilhan J. Thilakarathne, and **Asoka S. Karunananda** (2012), *Intelligent and Personalized Travel Planning System for Tourism through a Cognitive Inspired Framework,* In proceedings of the IASTED International Conference on Engineering and Applied Science – EAS 2012, December 27th -29th, Colombo, Sri Lanka

24. B.Hettige, **A.S.Karunananda**, G.Rzevski (2012), *Mult–agent systems technology for Morphological analysis,* In Proceedings of the 9th Annual Sessions of Sri Lanka Association for Artificial Intelligence, pp 1-7, 18tth December 2012, Open University of Sri Lanka

25. Wimal Perera, **A. S. Karunananda**, Prasad Wimalarathne (2012), *A Multi-agent based approach to simulate uncertinity of a crowd in panic with sharable ontologies,* In Proceedings of the 9th Annual Sessions of Sri Lanka Association for Artificial Intelligence, pp 18-28, 18tth December 2012, Open University of Sri Lanka

26. M.D.W. Srimal, A.S. Karunananda (2012), Agent negotiation for improving quality of solutions from multiple perspectives, In Proceedings of the 9th Annual Sessions of Sri Lanka Association for Artificial Intelligence, pp 37-47, 18tth December 2012, Open University of Sri Lanka

27. W.J.L.N. Wijayaweera, **A.S. Karunananda** (2012), *Framework for discovery of data models using genetic programming,* In Proceedings of the 9th Annual Sessions of Sri Lanka Association for Artificial Intelligence, pp 1-7, 18tth December 2012, Open University of Sri Lanka

28. W.A.C. Weerakoon, **A.S. Karunananda** (2012), *Modeling memory as consitional phenomena for a new theory of computing,* In Proceedings of the 9th Annual Sessions of Sri Lanka Association for Artificial Intelligence, pp 57-64, 18tth December 2012, Open University of Sri Lanka

29. P.A.P.R. Athukorala, A.S. Karunananda (2012),*Monocular vision based agent for navigation in stochastic environments,* In Proceedings of the 9th Annual Sessions of Sri Lanka Association for Artificial Intelligence, pp 65-72, 18tth December 2012, Open University of Sri Lanka

30. Ramesh Maddegoda aad **Asoka S Karunananda** (2012), *Multi-Agent based approach to assist the design process of 3D game environments,* In Proceedings of International Conference on Advances in ICT for Emerging Regions – ICTer 2012, pp 36-44, December 12th -15th, Colombo, Sri Lanka

31. Dilhan J Thilakarathne and **Asoka S Karunananda** (2012), *Analogue Driven Handling of Emergent Complexity,* In Proceedings of International Conference on Advances in ICT for Emerging Regions – ICTer 2012, pp 89-95, December 12th -15th, Colombo, Sri Lanka.

32. **Asoka S Karunananda**, Gihan M Rajakaruna and Shantha Jayalal (2012), *OntoCD – Ontological Solution for Curriculum development,* In Proceedings of International Conference on Advances in ICT for Emerging Regions – ICTer 2012, pp 137-144, December 12th -15th, Colombo, Sri Lanka.

33. Gihan M Rajakaruna, **Asoka S Karunananda** and Shantha Jayalal (2012), *Aligning Ontologies using Multi Agent Technology,* In Proceedings of International Conference

on Advances in ICT for Emerging Regions – ICTer 2012, pp 189-196, December 12th - 15th, Colombo, Sri Lanka.

34. Gihan M Rajakaruna, **Asoka S Karunananda** and Shantha Jayalal (2012), Agent based Protégé plugin for Ontology alignment, In proceedings of 7th International Conference on Industrial and Information Systems, pp 1-6, August 4th -5th Chennai, India

35. N. M. Wagarachchi and **A. S. Karunananda** (2012), *Mathematical Modelling of Hidden Layer Architecture in Artificial Neural Networks*, International Proceedings of Computer Science and Information Technology,- Power and Energy Systems 11, pp 154-159, November 17th -18th, Pune India

36. P.V.C.P. Perera and **A.S. Karunananda** (2011), *MASDM-A Multi Agent Solution for Disaster Management*, pp 6-13, In Proceedings of the 8th Annual Sessions of Sri Lanka Association for Artificial Intelligence, 20th December 2012, University of Moratuwa, Sri Lanka

37. G.M. Rajakaruna, **A.S. Karunananda,** S. Jayalal (2011), *Towards Multi Agent based solution for Ontology alignment*, pp 28-33, In Proceedings of the 8th Annual Sessions of Sri Lanka Association for Artificial Intelligence, 20th December 2012, University of Moratuwa, Sri Lanka

38. B. Hettige and **A.S. Karunananda** (2011), *Existing Systems and Approaches for Machine Translation: A Review*, pp 34-43, In Proceedings of the 8th Annual Sessions of Sri Lanka Association for Artificial Intelligence, 20th December 2012, University of Moratuwa, Sri Lanka

39. B. Hettige, **A. S. Karunananda** (2011), *Machine Translation System for Agriculture domain – Issues and Challenges,* In Proceedings of the Third Joint National Conference on Information Technology in Agriculture, pp 18-22, December 29, 2011, University of Ruhuna

40. G.M. Rajakaruna, **A.S. Karunananda**, S. Jayalal (2011), *Using Agent Technology for Ontology Alignment,* In Proceedings of the Third Joint National Conference on Information Technology in Agriculture, pp 28-33, December 29, 2011, University of Ruhuna

41. W.J.L.N Wijayaweera, **A.S. Karunananda** (2011), *Discovery of Data Models using Genetic Programming ,*In Proceedings of the Third Joint National Conference on Information Technology in Agriculture, pp 34-40, December 29, 2011, University of Ruhuna

42. M.D.W Srimal, **A.S. Karunananda** (2011), *Using Software Agents for Weather Forecasting from Multiple Perspectives,* In Proceedings of the Third Joint National Conference on Information Technology in Agriculture, pp 46-50, December 29, 2011, University of Ruhuna

43. B Hettige and **A. S. Karunananda** (2011), *Word as an Agent for Multi-agent based machine trasnlation,* In proceedings of ITRU Research Symposium, pp 35-40, 22nd November 2011, University of Moratuwa

44. S.N. Nallaperuma and **A. S. Karunananda** (2011), EME: *An Emergent Model of Emotions,* In proceedings of International Conference on Advances in ICT for Emerging Regions – ICTer 2011, pp 19-25, 1st-2nd September Colombo, Sri Lanka

45. B Hettige and **A. S. Karunananda** (2011), *Computational Model of Grammar for English to Sinhla Machine Translation,* In proceedings of International Conference on Advances in ICT for Emerging Regions – ICTer 2011, pp 26-31, 1st-2nd September Colombo, Sri Lanka
ev

46. S.N. Nallaperuma and **A. S. Karunananda** (2011), Towards *an Emergent Model of Emotions,* In proceedings of 6th International Conference on Industrial and Information Systems, 16th -19th August 2011, Kandy, Sri Lanka

47. GM Rajakaruna, KD Saminda, HLSRC Kumara, PAPR Athukorala, WJLN Wijayaweera, AS Karunananda (2011), *Agent Technology to Model Evolvable Ontologies,* In proceedings of 6th International Conference on Industrial and Information Systems, 16th -19th August 2011, Kandy, Sri Lanka

48. Budditha Henttige and **Asoka S Karunananda** (2010), *An evaluation methodology for English to Sinhala Machine Translation,* In Proceedings of the Fifth International Conference on Information and Automation for Sustainability, pp 31-36, December 17-19, 2010, Colombo, Sri Lanka

49. D. S. Kalana Mendis, **Karunananda A. S.** and Udaya Samarathunga (2010), *A Statistical Fuzzy inference System for classifying human constitutents, ,* In Proceedings of the Fifth International Conference on Information and Automation for Sustainability, pp 51-57, December 17-19, 2010, Colombo, Sri Lanka

50. A Kiribathgod and **A. S. Karunananda** (2010), *A Swarm of Agents for Language Editing,* In Proceedings of ITRU Research Symposium 2010, pp 02-08, November 17, 2010, University of Moratuwa

51. G.I. Premarathne and **A. S. Karunananda** (2010), *An Agent-based framework for resilence modeling of Value Chains,* In Proceedings of ITRU Research Symposium 2010, pp 09-16, November 17, 2010, University of Moratuwa

52. W.C.M. Kumarasiri and **Asoka S Karunananda** (2010), *iAgri – An Agricultural Value chain management system, ,* In Proceedings of ITRU Research Symposium 2010, pp 38-44, November 17, 2010, University of Moratuwa

53. B Hettige and **A. S. Karunananda** (2010), *A Novel approach for English to Sinhala machine translation,* In Proceedings of ITRU Research Symposium 2010, pp 66-72, November 17, 2010, University of Moratuwa

54. B. Hettige and **A.S. Karunananda** (2010), *Varanageema: A Theoretical basics for English to Sinhala Machine Translation*, pp 04-12, In Proceedings of the 7th Annual Sessions of Sri Lanka Association for Artificial Intelligence, 12th November 2011, University of Kelaniya, Sri Lanka

55. B.S.T. Karunarathna and **A.S. Karunananda** (2010), *Usage of Agent technology for Distributed Medical Services Support*, pp 13-19, In Proceedings of the 7th Annual Sessions of Sri Lanka Association for Artificial Intelligence, 12th November 2011, University of Kelaniya, Sri Lanka

56. A. Kiribathgoda and **A.S. Karunananda** (2010), *SAEE – A Swarm of Agents for English Editing*, pp 20-26, In Proceedings of the 7th Annual Sessions of Sri Lanka Association for Artificial Intelligence, 12th November 2011, University of Kelaniya, Sri Lanka

57. W.C.M. Kumarasiri and **Asoka S. Karunananda** (2010), *iAgri – An Agent Based Agricultural Information Provision*, pp 27-32, In Proceedings of the 7th Annual Sessions of Sri Lanka Association for Artificial Intelligence, 12th November 2011, University of Kelaniya, Sri Lanka

58. G.I. Premarathne and **A.S. Karunananda** (2010), *Resilience Modeling of Value Chain*, pp 33-39, In Proceedings of the 7th Annual Sessions of Sri Lanka Association for Artificial Intelligence, 12th November 2011, University of Kelaniya, Sri Lanka

59. H.B. Walisundara and **A.S. Karunananda** (2010), *Agent based autonomous graphic design tool "PICTURE IT"*, pp 40-45, In Proceedings of the 7th Annual Sessions of Sri Lanka Association for Artificial Intelligence, 12th November 2011, University of Kelaniya, Sri Lanka

60. P.B.P.A. Abeywardane, A.W.A.S.G. Alahakoon, P.P. Arachchi, M.W.R.S. Ananda, **A.S. Karunananda** (2010), *A PC based System to Monitor and Control Growth Parameters of plants,* In Proceedings of the Second Joint National Conference on Information Technology in Agriculture, pp 01-04, December 22, 2010, University of Moratuwa

61. D.G.M. Karunarathna, J.A.I.M. Gunathilake, K.A. Sarangi, P.S.P. Pathirathna, W.A.G. Diluka, **A.S. Karunananda**, D. Nandasena (2010), *Software Environment for Data Acquisition, Analysis and Forecasting in Rice Research, ,* In Proceedings of the Second Joint National Conference on Information Technology in Agriculture, pp 14-19, December 22, 2010, University of Moratuwa

62. D.M.S.N. Dissanayaka and **A.S. Karunananda** (2010), *Investigating the Use of Multi Agent Technology for Agricultural Information Systems, ,* In Proceedings of the Second Joint National Conference on Information Technology in Agriculture, pp 31-34, December 22, 2010, University of Moratuwa

63. I.A.A.U. Abeyrathne, H.K.N. Amarasinghe, W.K.T.R. Amarasignhe, M.D.P. Bamunuarachchi, **A.S. Karunananda** (2010), *Sunlight Monitoring and Controlling System,* In Proceedings of the Second Joint National Conference on Information Technology in Agriculture, pp 40-44, December 22, 2010, University of Moratuwa

64. Budditha Hettige and **Asoka S Karunananda** (2009), *Theoretical based approach to English to Sinhala machine Translation,* Proceedings of the 4th International Conference on Industrial and Information Systems, IEEE Sri Lanka Section, December 28-31, University of Peradeniya

65. Ruvindee Rupasinghe, Sanjaya Ratnajake and **Asoka S Karunananda** (2009), *Priority Driven Agent Based Retail Supply Chain Management System,* Proceedings of the 4th International Conference on Industrial and Information Systems, IEEE Sri Lanka Section, December 28-31, University of Peradeniya

66. Roshan Kumara, **Asoka S Karunananda** (2009), *Mobile Agent for Monitoring Computer Networks,* pp 5-11, Proceedings of the 6nd Annual Sessions of Sri Lanka Association for Artificial Intelligence, 30th October 2009

67. Ruvindee Rupasinghe, Sanjaya Ratnayake, **Asoka Karunananda** (2009), *Agent Based Solution for Retail Supply Chain Management,* pp 12-18, Proceedings of the 6nd Annual Sessions of Sri Lanka Association for Artificial Intelligence, 30th October 2009

68. B. Hettige, **A. S. Karunananda** (2009), *On Demand Web Page Translation – BEES in action,* pp 24-31, Proceedings of the 6nd Annual Sessions of Sri Lanka Association for Artificial Intelligence, 30th October 2009

69. K.G.Nishadi Lakshika, S.D.H.S.Wikramarathna, G.T.I. Karunarathna, J.C. Balasuriya, **A.S.Karunananda** (2009), *SLR Navigator,* pp 32-36, Proceedings of the 6nd Annual Sessions of Sri Lanka Association for Artificial Intelligence, 30th October 2009

70. **Asoka S Karunananda** (2009)**,** *Unexplored directions for the IT industry in Sri Lanka (invited paper), pp 57-61,* 27th National Information Technology Conference, 9th – 10th September 2009, Colombo

71. Rvindee Rupasinghe, Sanjaya Ratnayake, **Asoka S Karunananda** (2009), *INSITH – An Agent-Based Retail Supply Chain Management System, pp 92-97,* 27th National Information Technology Conference, 9th – 10th September 2009, Colombo

72. D. S. Kalana Mendis, **Asoka S Karunananda** and U Samarathunga (2009), *An approach to the development of Multi Techniques Integrated Expert Systems for tacit Knowledge Modelling, pp 133-138,* 27th National Information Technology Conference, 9th – 10th September 2009, Colombo

73. Budditha Henttige and **Asoka S Karunananda** (2009), *Context-based approach to semantic handelling in English to Sinhala Machine Translation, pp 145-150,* 27th National Information Technology Conference, 9th – 10th September 2009, Colombo

74. Budditha Hettige and **Karunananda A. S.** (2008), *Web-based English to Sinhala translator in action,* In Proceedings of the International Conference on Information and Automation for Sustainability, pp 80-85, December 12-14, 2008, Colombo, Sri Lanka

75. Menaka Ranasighe D. D., **Karunananda A. S.,** and Ratnayake U. (2008), *Learning qualitative relations in real world scenes,* In Proceedings of the International Conference on Information and Automation for Sustainability, pp 413-418, December 12-14, 2008, Colombo, Sri Lanka

76. D. S. Kalana Mendis, **Karunananda A. S.** and Samarathunga U. (2008), *An approach to devlop multi techniques integrated expert system for diagnosis of human constitutions,* In Proceedings of the International Conference on Information and Automation for Sustainability, pp 184-187, December 12-14, 2008, Colombo, Sri Lanka

77. Sanjaya Ratnayake, Ruvindee Rupasinghe, Anuradh Ranatunga, Shalinda Adikari, Sajayahan de Zoysa, Kamala Tennakoon, and **Asoka Karunananda** (2008), *Using swarm Inelligence to perceive the Semantic Web,* In Proceedings of the International Conference on Information and Automation for Sustainability, pp 91-96, December 12-14, 2008, Colombo, Sri Lanka

78. Subha Fernando, **Asoka Karunananda,** Shuichi Matsuzaki, Ashu Marasinghe (2008), *Ontological Modelling in Kansei Engineering,* In Proceedings of the 2nd International Conference on Kansei Engineering and Affective Systems, KEAS'08, 22nd -24th November, 2008

79. Nilupa Liyanage , **Asoka S. Karunananda** (2008), *Using Neural Networks for Recognition of Handwritten Mathematical Documents,* pp 21-25, Proceedings of the 5th Annual Sessions of Sri Lanka Association for Artificial Intelligence, 31th October 2008

80. B. Hettige, **Asoka. S. Karunananda** (2008), *Web-based English to Sinhala Selected Texts Translation system,* pp 26-33, Proceedings of the 5th Annual Sessions of Sri Lanka Association for Artificial Intelligence, 31th October 2008

81. Sanjaya Ratnayake, Ruvindee Rupasinghe, Anuruddha Ranatunga, Shalinda Adikari ,Sajayahan de Zoysa, Kamala Tennakoon, **Asoka S. Karunananda** (2008), *Using Agent technology to access the Semantic Web,* pp 41-48, Proceedings of the 5th Annual Sessions of Sri Lanka Association for Artificial Intelligence, 31th October 2008

82. Mendis D.S.K, **Asoka S. Karunananda**, Samartunga U (2008), *Fuzzy principal component analysis: widening scope of clinical diagnosis in Ayurveda Medicine,* In Proceedings of the 26th National Conference, Colombo, 20-21st August 2008

83. Menaka Ranasighe D. D. and **Karunananda A. S.** (2007), *Refining Rules Learned in Cognitive Computer Vision System,* In Proceedings of the International Conference on Information and Automation for Sustainability, pp52-56, December 4-6, 2007, Melbourne, Australia

84. Budditha Hettige and **Karunananda A. S.** (2007), *Intermediate-Editing Approach for English to Sinhala Machine Translation,* In Proceedings of the International Conference on Information and Automation for Sustainability, pp 118-123, December 4-6, 2007, Melbourne, Australia

85. Kannangara D. H. W., Ahangama S., Perera S. N., Pushpakumara M., **Karunananda A. S.** and Withanage D.K. (2007), *Iddhipada Agent for versatile e-Learning,* In Proceedings of the International Conference on Information and Automation for Sustainability, pp 129-134, December 4-6, 2007, Melbourne, Australia

86. Budditha Hettige & **Asoka. S. Karunananda (2007),** *Using Human-Assisted Machine Translation to overcome language barrier in Sri Lanka,* pp 10-16, Proceedings of the 4th Annual Sessions of Sri Lanka Association for Artificial Intelligence, 31th October 2007

87. Subha D. Fernando & **Asoka S. Karunanada** (2007), *On Computing Ontology for Mental Factors,* pp 17-25, Proceedings of the 4th Annual Sessions of Sri Lanka Association for Artificial Intelligence, 31th October 2007

88. U. Leelarathna, G. Ranasinghe, N. Wimalasena, D. Weerasinghe & **Asoka S. Karunananda** (2007), *NLP - Based Expert System for Database Design and Development,* pp 34-38, Proceedings of the 4th Annual Sessions of Sri Lanka Association for Artificial Intelligence, 31th October 2007

89. D.S. Kalana Mendis, **Asoka S. Karunananda** & U. Samarathunga (2007), *Computational modeling in conceptual models: Widening scope of artificial life,* pp 39-47, Proceedings of the 4th Annual Sessions of Sri Lanka Association for Artificial Intelligence, 31th October 2007

90. **Asoka S. Karunananda** (2007), *An Approach to humanizing e-Learning systems,* Proceedings of the 2nd International Conference on Industrial and Information Systems, IEEE Sri Lanka Section, August 9-11, Peradeniya

91. Ranasinghe D. D. M. and **Karunananda A. S.** (2007), *Using qualitative and commonsense knowledge to expand horizons of cognitive Computer Vision Systems,* Proceedings of the 2nd International Conference on Industrial and Information Systems, IEEE Sri Lanka Section, August 9-11, Peradeniya

92. Mendis D.S.K, **Asoka S. Karunananda**, Samartunga U, Ratnayake, U. (2007), *Tacit Knowledge Modeling in Intelligent Hybrid systems,* Proceedings of the 2nd International Conference on Industrial and Information Systems, IEEE Sri Lanka Section, August 9-11, Peradeniya

93. Dissanayake M., Hendahewa C., **A. S. Karunananda** (2007), *Artificial Neural Network Approach to Credit Risk Assessments,* Proceedings of the 2nd International Conference on Industrial and Information Systems, IEEE Sri Lanka Section, August 9-11, Peradeniya

94. Hettige, B. and **Karunananda A. S.** (2007), *Developing Lexicon Databases for English to Sinhala machine Translation,* Proceedings of the 2nd International Conference on Industrial and Information Systems, IEEE Sri Lanka Section, August 9-11, Peradeniya

95. Hettige, B. and **Karunananda A. S.** (2007), *Transliteration system for English to Sinhala Machine Translation,* Proceedings of the 2nd International Conference on Industrial and Information Systems, IEEE Sri Lanka Section, August 9-11, Peradeniya

96. Mendis D. S. K., **Karunananda A. S.** and Samarathunga U. (2006), *A Computer Model for diagnosis of human constituents,* In Proceedings of the International Conference on Information and Automation, pp13-16, December 14-15, 2006, Colombo

97. Hettige, B. and **Karunananda A. S.** (2006), *A Morphological Analyzer to Enable English to Sinhala Machine Translation,* In Proceedings of the International Conference on Information and Automation, pp21-26, December 14-15, 2006, Colombo

98. Ranasighe, D. D. M. and **Karunananda A. S.** (2006), *Qualitative Reasoning Engine for Visual Scene Understanding in Cognitive Vision Systems,* In Proceedings of the International Conference on Information and Automation, pp 81-85, December 14-15, 2006, Colombo

99. Ranmuthugala M.H.P, Pathiragoda G.D.N.C., Karunaratne K.M.J., Jayasundara S.H.C., Guhan Dias, **Karunananda A.S** (2006), *Online Sinhala Character Recognition on Handled Devices,* In Proceedings of the 8th International Information Technology Conference (IITC 06), pp1-10, October 12-13, Colombo, Sri Lanka

100. **Asoka S. Karunananda**, Vishanth Weerakkody (2006), *E-Government implementation in Sri Lanka: Lessons from the UK*, In Proceedings of the 8th International Information Technology Conference (IITC 06), pp 53-65, October 12-13, Colombo, Sri Lanka

101. Mendis D.S.K, **Asoka S. Karunananda**, Samartunga U (2006), *Tacit Knowledge Modelling in Intelligent Hybrid Systems: Widening scope of information Engineering*, In Proceedings of the 8th International Information Technology Conference (IITC 06), pp 225-231, October 12-13, Colombo, Sri Lanka

102. Hettige B. and **Karunananda A.S.** (2006), *First Sinhala Chatbot in Action*, Proceedings of the 3rd Annual Sessions of Sri Lanka Association for Artificial Intelligence, pp 4-10, 14th September 2006

103. De Silva G. R. C. and **Karunananda A.S.** (2006), *Distributed Artificial Neural Network Training using an Intelligent Agent*, Proceedings of the 3rd Annual Sessions of Sri Lanka Association for Artificial Intelligence, pp 19-26, 14th September 2006

104. Rupesh Selvaraj & **Asoka S. Karunananda** (2006), *Virtual Tour Agent*, pp 27-31, Proceedings of the 3rd Annual Sessions of Sri Lanka Association for Artificial Intelligence, 15th September 2006

105. Hendahewa C., Dissanayake M., Samaraweera S., Wijayawickrama N., Ruwanpathirana A., **Karunananda A.S.** (2006), *Artificial Intelligence Approach to Effective Career Guidance*, In Proceedings of the 3nd Annual Sessions of Sri Lanka Association for Artificial Intelligence, pp 32-42, September 14, Colombo, Sri Lanka

106. D.S. Kalana Mendis, Asoka S. Karunananda and U. Samarathunga (2006), *Widening Scope of Principal Component Analysis: A Fuzzy Approach*, In Proceedings of the 3nd Annual Sessions of Sri Lanka Association for Artificial Intelligence, pp 43-50, September 14, Colombo, Sri Lanka

107. D. D. M. Ranasinghe and **Asoka. S. Karunananda** (2006), *Qualitative Realization of the Visual World*, In Proceedings of the 3nd Annual Sessions of Sri Lanka Association for Artificial Intelligence, pp 43-50, September 14, Colombo, Sri Lanka

108. **Asoka S. Karunananda** and Ajith P. Madurapperuma (2006), *Towards an Ontology for Kansei*, Proceedings of the 1st International Conference on Kansei Engineering and Intelligent Systems (KEIS'06), pp 167-171, September 5-7, Aizu-Wakamasu, Japan

109. **Karunananda A. S.** (2006), *Theoretical-based approach to e-Learning*, Proceedings of the International Conference on Industrial and Information Systems, IEEE Sri Lanka Section, August 8-11, Peradeniya

110. Ranasinghe D. D. M. and **Karunananda A. S.** (2006), *Qualitative knowledge driven approach to Inductive Logic Programming*, Proceedings of the International Conference on Industrial and Information Systems, IEEE Sri Lanka Section, August 8-11, Peradeniya

111. Devendra L.. and **Karunananda A. S.** (2006), *On computing Learning Ontology with Mental Attributes*, Proceedings of the International Conference on Industrial and Information Systems, IEEE Sri Lanka Section, August 8-11, Peradeniya

112. Hettige B., and **Karunananda A. S.** (2006), *A parser for Sinhala Language – first step towards English to Sinhala Machine Translation*, Proceedings of the International Conference on Industrial and Information Systems, IEEE Sri Lanka Section, August 8-11, Peradeniya

113.   **Karunananda A. S.** (2005), *Smart Intelligent Robots through Multi-Agent Systems Technology*, Proceedings of the International Conference on Information and Automation, December 15-18, 2005, Colombo, 246-250

114.   Mendis D. S. K., **Karunananda A. S.** and Samarathunga U. (2005), *An approach to develop knowledge modeling framework – Case study using Ayurvedic Medicine,* Proceedings of the International Conference on Information and Automation, December 15-18, 2005, Colombo, 251-255

115.   **Karunananda A. S.** (2005), *Learner centered Ontology driven approach to e-Learning,* Proceedings of the Seventh International Information Technology Conference (IITC2005), Colombo, 244-252

116.   Mendis D. S. K., **Karunananda A. S.** and Samarathunga U. (2005), *An Intelligent System for smart thinking in clinical diagnosis,* Proceedings of the Seventh International Information Technology Conference (IITC2005), Colombo, 223-229

117.   **Karunananda A. S.** (2005), *Learner's Perspective driven ontology for e-learning,* Proceedings of the Eight International Conference on Humans and Computers, Japan, pp 143-149

118.   **Karunananda A. S.** (2005), *Secure future through Multi-Agent System Technology,* Proceedings of the 24th National IT Conference, Colombo, pp 104-113

119.   D. D. M. Ranasinghe, A. G. Cohn and **A.S. Karunananda** (2005), *Learning protocol model of the perceived environment from vision data,* Proceedings of the 24th National IT Conference, Colombo, pp 144-152

120.   Mendis D. S. K., **Karunananda A. S.** and Samarathunga U. (2005), *Building commonsense knowledge modeling system – a holistic approach for disaster management,* Proceedings of the 24th National IT Conference, Colombo, pp 160-168

121.   **Karunananda A.S.** & Rzevski G. (2005), *Relevance of Buddhist Philosophy to ontological modeling in Information Systems and Computer Science,* Proceedings of the 2nd Annual Sessions of Sri Lanka Association for Artificial Intelligence, pp 4-13, 19th February 2003

122.   **Karunananda A.S.** Hettige B. (2005), *English to Sinhalese Bilingual Web Client for accessing the Semantic Web*, Proceedings of the 2nd Annual Sessions of Sri Lanka Association for Artificial Intelligence, pp 36-42, 19th February 2003

123.   Ranasighe D. D. M. Cohn A. G. and **Karunananda A. S.** (2005), Towards Building a Cognitive Vision System for Learning in Behavioral Models from Symbolic Data Using Qualitative Patio-Temporal Relations, Proceedings of the 2nd Annual Sessions of Sri Lanka Association for Artificial Intelligence, pp 22-27, 19th February 2003

124.   Mendis D. S. K., **Karunananda, A.S.** and Samarathunga U. (2005), Using Fuzzy Logic for Automating Knowledge Acquisition, Proceedings of the 2nd Annual Sessions of Sri Lanka Association for Artificial Intelligence, pp 28-35

125.   Fernando D. A. I. P. and **Karunananda A. S**. (2004), *Realizing software development process through biological systems*, Proceedings of the 6th International Information Technology Conference (IITC 2004), pp 102-111, Colombo, Sri Lanka.

126.   **Karunananda A. S.** (2004), *Missing dimensions in Sri Lankan Software Industry*, In proceedings of 23rd National IT Conference, pp 55-64, Computer Society of Sri Lanka, Colombo, Sri Lanka

127.   Nalin Jayalath and **Karunananda A. S.** (2004), *Meeting competitive advantages through mobile agent technology*, In proceedings of 23rd National IT Conference, pp 95-102, Computer Society of Sri Lanka, Colombo, Sri Lanka

128.   Marino Rajasingham and **Karunananda A.S.** (2003), *Using Agent Technology for Knowledge Managemen*t*,* In proceedings of the 1st Annual Session of Sri Lanka Association for Artificial Intelligence, pp 36-44, Colombo, Sri Lanka

129.   Mendis D. S. K., **Karunananda, A.S.** and Samarathunga U. (2003), *Framework for modelling of tacit knowledge – Case study using Ayurvedic domain,* In proceeding of the International Information Technology Conference (IITC'2003), pp 76-82, Colombo, Sri Lanka

130.   Fernando D. A. I. P. and **Karunananda A.S.** (2003), Building your medical expert system – Do it yourself, In proceedings of the 1st Annual Session of Sri Lanka Association for Artificial Intelligence, pp 3-7, Colombo, Sri Lanka

131.   Fernando D. A. I. P. and **Karunananda A.S.** (2003), Using Hybrid Artificial Intelligence for decision making in medicine, In proceedings of the 1st Annual Session of Sri Lanka Association for Artificial Intelligence, pp 12-17, Colombo, Sri Lanka

132.   Mendis D. S. K., **Karunananda, A.S.** and Samarathunga U. (2003), Modelling of tacit knowledge, In proceedings of the 1st Annual Session of Sri Lanka Association for Artificial Intelligence, pp 18-24, Colombo, Sri Lanka

133.   Marino Rajasingham and **Karunananda A.S.** (2003), Using Agent Technology for Knowledge Management, In proceedings of the 1st Annual Session of Sri Lanka Association for Artificial Intelligence, pp 36-44, Colombo, Sri Lanka

134.   Fernando D. A. I. P. and **Karunananda A.S.** (2003), Neural Lab: Workbench for Artificial Neural Networks Experiments and Testing , In proceedings of the 1st Annual Session of Sri Lanka Association for Artificial Intelligence, pp 25-29, Colombo, Sri Lanka

135.   Perera B., **Karunananda A. S.**, Ranasinghe D. D. M. and Karunaratne T. M. (2002), *Virtual Day School for Distance Education – An Approach to E-Learning,* In proceeding of 21st National IT Conference, pp156-160, Computer Society of Sri Lanka, Colombo, Sri Lanka

136.   Dharmadasa S. K. and **Karunananda A. S.** (2002), *Intelligent Credit Evaluator and Fraud Predictor*, In proceeding of 21st National IT Conference, pp146-151, Computer Society of Sri Lanka, Colombo, Sri Lanka

137.   Sakeena M. A. F. and **Karunananda A. S.** (2002), *An Intelligent Agent for Emergency Response Management –* In proceeding of 21st National IT Conference, pp 161-164, Computer Society of Sri Lanka, Colombo, Sri Lanka

138.   **Karunananda, A.S.** (2001)*, Computer Control for E-agriculture,* In proceeding of 20th National IT Conference, pp18-24, Computer Society of Sri Lanka, Colombo

139.   Dissanayake, S. N. and **Karunananda**, How can the Computer Support Abstract thinking?*,* In proceeding of 20th National IT Conference, pp 66-72, Computer Society of Sri Lanka, Colombo

140.   **Karunananda, A.S.** (2001)*, Aren't we polarize due to globalization?,* In proceeding of 20th National IT Conference, pp 79-83, Computer Society of Sri Lanka, Colombo

141.   Wijewantha, N.W.B, and **Karunananda**, A. S. *Data mining approach using Artificial Neural Networks for Sri Lanka Stock Exchange,* In proceeding of 20th National IT Conference, pp 148-155, Computer Society of Sri Lanka, Colombo

142.   **Karunananda A. S.**, (2000), *An Intelligent Agent for Distance Learning*, In Proceedings of Philippines Computing Science Congress (PSCS), pp13-17, Philippine, Manila.

143. Dissanayake S. N. & **Karunananda A. S.**, (2000), *PC-Based Mathematics Learning*, In Proceedings Of South East Asian Regional Computer Confederation (SEARCC 2000), Manila, Philippine.

144. **Karunananda A. S.**, (2000), *An Intelligent Agent for Distance Learning*, In Proceedings of South East Asian Regional Computer Confederation (SEARCC 2000), Manila, Philippine.

145. **Karunananda, A.S.** (2000)*, Current trends in knowledge centred systems in Sri Lanka,* In proceedings of 19th National IT Conference, pp 91-95, Computer Society of Sri Lanka, Colombo, Sri Lanka.

146. Subramaniam B.& **Karunananda, A.S.** (2000)*, Case-based reasoning approach to modelling legal expertise ,* In proceedings of 19th National IT Conference, pp 96-101, Computer Society of Sri Lanka, Colombo, Sri Lanka.

147. Gomes T.R. & **Karunananda, A.S.** (2000)*, An intelligent system for telecommunication fraud detection,* In proceedings of 19th National IT Conference, pp 102-108, Computer Society of Sri Lanka, Colombo, Sri Lanka.

148. Ratnayake W.M.C.R. & **Karunananda, A.S.** (2000)*, Telemedicine expert system for diagnosing heart diseases,* In proceedings of 19th National IT Conference, pp 109-114, Computer Society of Sri Lanka, Colombo, Sri Lanka.

149. **Karunananda, A.S.** (2000), *Information Technology for Enhancing Library Services*, Sri Lanka Library Association, 26-27 June, 2000

150. Thenuwara R. & **Karunananda**, **A.S.** (1999)*, An Intelligent Traffic Control System,* In proceedings of 18th National IT Conference, pp 122-128, Computer Society of Sri Lanka, Colombo, Sri Lanka

151. Ekanayake G.P.K.B. & **Karunananda, A.S.** (1999)*, Your Intelligent Assistant for the next Millennium,* In proceedings of 18th National IT Conference, pp 138-147, Computer Society of Sri Lanka, Colombo, Sri Lanka.

152. **Karunananda A. S.** (1998*), Response-Driven Knowledge Acquisition for Knowledge Modelling*, KAW98, 18-23 April, Banff, Alberta, Canada, 1998.

153. **Karunananda A. S.** (1998), *When Machines can be Intelligent*, Proceedings of Conference on Computer Modelling, IFS, pp 11-13, 21st May 1998.

154. Chelvan C. & **Karunananda, A.S.** (1998)*, Virtual Mall: An Approach to Internet Based Shopping,* 17th National IT conference, CSSL, 5th-7th July1998, pp 65-70.

155. **Karunananda, A.S.** (1997)*, Design of an Intelligent Device for Household Circuit Balancing,* In proceedings of International Conference on Power Electronics and Drive Systems (PEDS'97), pp 403-407, Vol 1, Singapore.

156. **Karunananda, A.S.** (1997)*, Artificial Intelligence for Sri Lanka-Benefits and Contributions,* In proceedings of 16th National IT Conference, pp 54-58, Computer Society of Sri Lanka, Colombo, Sri Lanka.

157. Rasanga, K.G.C. & **Karunananda, A.S.** (1997)*, A Neural Network for ECG Analysis,* In proceedings of 16th National IT Conference, pp 113-118, Computer Society of Sri Lanka, Colombo, Sri Lanka.

158. **Karunananda, A.S.** & Siriyananda, H (1996). *Intelligent Operations of Small Power Systems: Applications in South Asia*, In Proceedings of the AUPEC'96 pp.193-198, Melbourne, Australia

159. **Karunananda, A.S.** & Nwana, H. S. & Brereton, O. P. (1995), *Domain analysis for knowledge acquisition using metaphors,* Proceedings of the 9th Banff Knowledge Acquisition for Knowledge-Based Systems Workshop, Vol. 1, pp.1-20, Banff, Canada

160. **Karunananda, A.S.** & Nwana, H. S. (1995), *Cognitive-based approach to using metaphors in domain analysis for knowledge acquisition,* Proceedings of ECCS-95, Saint-Malo, France.

Refereed publications in abstract form

1. **Karunananda, A. S.** and Hettiege, B. (2004), *Bilingual web client for accessing world knowledge,* In proceedings of the 60th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp135, December 17th-22nd 2004.

2. **Karunananda, A. S.**, Dissanayake D. M. M. and Karunaratne T.M. (2004), *Agricultural advisory expert system,* In proceedings of the 60th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp202, December 17th-22nd 2004.

3. Fernando, D. A. I. P. and **Karunananda, A. S.** (2004)*, Biological Process Model and SoftGene – a novel software model and a CASE tool,* In proceedings of the 60th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp209, December 17th-22nd 2004.

4. Wickramanayake N. P. D. and **Karunananda, A. S.** (2004)*, Using hybrid artificial intelligence for delinquency forecasting,* In proceedings of the 60th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp212, December 17th-22nd 2004.

5. **Karunananda, A. S.,** Liyanage, K. P. H. and Silva W. P.D. (2004) *Associating multiple documents through Agent technology,* In proceedings of the 60th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp212, December 17th-22nd 2004.

6. Mendis D. S. K., **Karunananda A. S.** and Samarathunga U. (2004), *Recognition of human constituents using artificial intelligence techniques*, proceedings of 3rd Academic Session – Health Informatics Society of Sri Lanka, pp 10, 20th June, 2004, Colombo

7. T.M. Karunaratne and **Karunananda A. S.** (2004), *Computer based emergency care system for Home and office*, proceedings of 3rd Academic Session – Health Informatics Society of Sri Lanka, pp 11, 20th June, 2004, Colombo

8. A.V.G.M. Rasangika and **Karunananda A. S.** (2004), *Fuzzy Neuro Expert System for Speech Therapy*, proceedings of 3rd Academic Session – Health Informatics Society of Sri Lanka, pp 18-19, 20th June, 2004, Colombo

9. Marino Rajasingham and **Karunananda A.S.** (2003), *Using Agent Technology for Knowledge Management,* proceedings of the 1st Annual Session of Sri Lanka Association for Artificial Intelligence, pp 36-44, 16th September 2003, Colombo

10. **Karunananda, A. S.** (2003), *An intelligent item Banking system for setting of quality question papers,* in proceedings of the 59th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp242, December 9th-13th 2003.

11. Fernando D.A.I.P & **Karunananda, A. S.** (2003), *Modelling of habituation in artificial neural networks,* in proceedings of the 59th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp192, December 9th-13th 2003.

12. Fernando D.A.I.P & **Karunananda, A. S.** (2003), *An approach to automate the software development process: an insight from biological systems,* in proceedings of the 59th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp193, December 9th-13th 2003.

13. Mendis D. S. K., **Karunananda A. S.** and Samarathunga U. (2003), *Reasoning with Uncertainty*, proceedings of Second Academic Session – Health Informatics Society of Sri Lanka, pp 17, 30th March, 2003, Colombo

14. Fernando D. A. I. P., Dias W.P.S. and **Karunananda A.S.** (2003), *Using Artificial Neural Networks for Making Predictions with Medical Data*, proceedings of Second Academic Session – Health Informatics Society of Sri Lanka, pp 18, 30th March, 2003, Colombo

15. Christie A.P. and **Karunananda A. S.** (2003), *An Intelligent System for Automated "Pap Smear"Screening*, proceedings of Second Academic Session – Health Informatics Society of Sri Lanka, pp 19, 30th March, 2003, Colombo

16. Mendis D. S. K., **Karunananda, A.S.** and Samarathunga U. (2002), *Using intelligent techniques for widening scope of real world problem solving ,* International Information Technology Conference (IITC'2002), pp 28, October 4 – 9, 2002

17. Christie A.P. & **Karunananda, A. S.** (2002), *Using Artificial Neural Networks and Image processing techniques for automation of cancer screening,* in proceedings of the 58th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp221, Dec.2- Dec. 07, 2002.

18. Liyanage D.S. K. & **Karunananda, A. S.** (2002), *Potato late blight disease forecasting and recommending appropriate control measures using artificial intelligence techniques,* in proceedings of the 58th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp222, Dec.2- Dec. 07, 2002.

19. Karunaratne T. M. & **Karunananda, A. S.** (2002), *A new theory for conflict resolution in expert systems,* in proceedings of the 58th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp223, Dec.2- Dec. 07, 2002.

20. Kusan Wijayathilaka Athukorala & **Karunananda, A. S.** (2002), *A hairstyling software,* in proceedings of the 58th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp239, Dec.2- Dec. 07, 2002.

21. **Karunananda, A. S.** (2002), *Simulator for the study of thought process in Buddhism,* in proceedings of the 58th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp289, Dec.2- Dec. 07, 2002.

22. Seneviratne V. C. B. & **Karunananda, A. S.** (2001), *An Intelligent Medical Information System for the General Public and the Experts,* in proceedings of the 57th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp222, Nov.26- Dec. 01, 2001.

23. Mallawaarachchi S. J. & **Karunananda, A. S.** (2001), *An Agent – Based Internet Traffic Control System,* in proceedings of the 57th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp223, Nov.26- Dec. 01, 2001.

24. Zahir M. R. & **Karunananda, A. S.** (2001), *Applying intelligent techniques to railway scheduling,* in proceedings of the 57th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp226, Nov.26- Dec. 01, 2001.

25. Perera D. C.   & **Karunananda, A. S.** (2001), *Heuristic-based approach to effective exploring of large knowledge bases,* in proceedings of the 57th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp227, Nov.26- Dec. 01, 2001.

26. Dissanayake S. N.   & **Karunananda, A. S.** (2001), *A framework for developing a computer-based mathematics learning system,* in proceedings of the 57th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp228, Nov.26- Dec. 01, 2001.

27. **Karunananda, A. S.** (2001), *Framework towards spiral theory for learning,* in proceedings of the 57th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp279, Nov.26- Dec. 01, 2001.

28. Gomes T. R. & **Karunananda, A. S.** (2000), *Telecommunication fraud detection using artificial neural networks,* in proceedings of the 56th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp203, 27 Nov.- 01 Dec. 2000.

29. Hewagama S. & **Karunananda, A. S.** (2000), *Intelligent hybrid system for foundation designing,* in proceedings of the 56th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp204, 27 Nov.- 01 Dec. 2000.

30. Subramaniam B. & **Karunananda, A. S.** (2000), *Online legal case-base reasoner,* in proceedings of the 56th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp205, 27 Nov.- 01 Dec. 2000.

31. Ratnayake W. M. C. R. & **Karunananda, A. S.** (2000), *Expert cardiology support over the internet,* in proceedings of the 56th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp206, 27 Nov.- 01 Dec. 2000.

32. Dissanayake S. N. & **Karunananda, A. S.** (2000), *Intelligent learning system for mathematics,* in proceedings of the 56th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp207, 27 Nov.- 01 Dec. 2000.

33. Ranasinghe D. D. M. & **Karunananda, A. S.** (2000), *Intelligent statistical consultant,* in proceedings of the 56th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp217, 27 Nov.- 01 Dec. 2000.

34. Karunarathne T. M. & **Karunananda, A. S.** (2000), *Buddhist theory of emotions for expert systems,* in proceedings of the 56th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp218, 27 Nov.- 01 Dec. 2000.

35. **Karunananda, A. S.** (2000), *Visualisation of abstract mathematical concepts,* in proceedings of the 56th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp225, 27 Nov.- 01 Dec. 2000.

36. **Karunananda, A. S.** (2000), *Computer technology & future of Sri Lankan society,* in proceedings of the 56th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp289, 27 Nov.- 01 Dec. 2000.

37. **Karunananda, A.S.** (2001), *Using an Eastern Philosophy for a Theory of Computation,* International Information Technology Conference (IITC'2000), 17th -19th January 2001, Colombo, pp30

38. Fernando D.J.S., **Karunananda, A.S.**, Ratnayake W.M.C. and Siribuddana S. (2001), *An Approach to Telemedicine-Insulin Monitoring Expert System,* International Information Technology Conference (IITC'2000), 17th -19th January 2001, Colombo, pp26

39. **Karunananda A.S.** (1999), *Using Intelligent Agent for a Virtual University,* International Information Technology Conference (IITC'99), 6th –8th Oct. 99, Colombo, pp33

40. Zoysa R. & **Karunananda A. S.** (1999), *An Advertising Advisory Expert System,* International Information Technology Conference (IITC'99), 6th –8th Oct. 99, Colombo, pp 44

41. **Karunananda A.S.**, Jayanetti J.K.D.S. & Rasanga K.G.C (1999), *Low-cost ECG machine with an intelligent system for diagnosing heart diseases,* International Information Technology Conference (IITC'99), 6th –8th Oct. 99, Colombo, pp48-49

42. Perera D.C. & **Karunananda A.S.** (1999), *A Knowledge-based system for intelligent reasoning in distance education,* International Information Technology Conference (IITC'99), 6th –8th Oct. 99, Colombo, pp56

43. Ranasinghe D.D.M. & **Karunananda A.S.** (1999), *An Intelligent statistical consultant,* International Information Technology Conference (IITC'99), 6th –8th Oct. 99, Colombo, pp 57

44. Dissanayake S.N. & **Karunananda A. S.** (1999), *An intelligent learning environment for mathematics at grade six,* International Information Technology Conference (IITC'99), 6th –8th Oct. 99, Colombo, pp58

45. **Karunananda A.S.** (1999), *Using the Internet for controlling of remote devices: customising computer technology for Sri Lanka,* International Information Technology Conference (IITC'99), 6th –8th Oct. 99, Colombo, pp61

46. **Karunananda, A. S.** (1999), *Controlling of remote devices on the Internet: customising of Computer technology,* in proceedings of the 55th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp181, 29 Nov.- 03 Dec. 1999.

47. **Karunananda A.S.**, Jayanetti J.K.D.S. & Rasanga K.G.C (1999), *An Intelligent System for diagnosing heart diseases,* in proceedings of the 55th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp191, 29 Nov.-03 Dec. 1999.

48. **Karunananda, A. S.** (1999), *Can Buddhism be compared with science?,* in proceedings of the 55th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp245-246, 29 Nov.- 03 Dec. 1999.

49. Perera D.C. & **Karunananda A.S.** (1999), *The First Knowledge-Based System in Sri Lanka,* in proceedings of the 55th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp192, 29 Nov.- 03 Dec. 1999.

50. **Karunananda, A. S.** (1998), *A Theoretical basis for weight initialisation in Neural Networks,* in proceedings of the 54th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp243, 14-19 December 1998.

51. **Karunananda, A. S.** (1998), *Naturalistic Knowledge Elicitation for Expert Systems,* in proceedings of the 54th Annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp244, 14-19 December 1998.

52. **Karunananda, A. S.** (1997), *Buddhist thought process: a new approach to knowledge modelling,* in proceedings of the 53rd annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp303, 8-12 December 1997.

53. Perera C., **Karunananda, A.S.** & Rezevski G. (1997), *Design of an Expert system on top of a database,* in proceedings of the 53rd annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp304, 8-12 December 1997.

54. Karunaratne T.M. & **Karunananda, A. S.** (1997), *An Intelligent system for co-ordinator decision support,* in proceedings of the 53rd annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp305, 8-12 December 1997.

55. Munainghe U.I., **Karunananda, A.S**. & Rezevski G. (1997), *Reasoning mechanisms for exploring a knowledge base*, in proceedings of the 53rd annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp307, 8-12 December 1997.

56. Somadasa H. & **Karunananda, A. S.** (1997), *Has mathematics lost touch with reality?,* in proceedings of the 53rd annual session, Sri Lanka Association for the Advancement of Sciences (SLAAS), pp313, 8-12 December 1997.

57. Sriyananda, H. & **Karunananda, A. S.** & Prasath, D. D. (1988), *Knowledge as a process,* in proceedings of the forty-fourth annual session, Sri Lanka Association for the Advancement of Science (SLAAS).

58. **Karunananda, A. S.** & De Zoysa, A. P. K. (1988), *Estimate the power density in sea spectra off the southern coasts of Sri Lanka,* in proceedings of the forty-forth annual session, Sri Lanka Association for Advancement of Science (SLAAS).

Authored books for Open and Distance Learning

1. **Asoka S. Karunananda** (2001), *Computer Studies,* Open University of Sri Lanka

2. **Asoka S. Karunananda** (2001), *The Internet Technology,* Open University of Sri Lanka

3. **Asoka S. Karunananda** (2001), *Information Technology,* Open University of Sri Lanka

4. **Asoka S. Karunananda** (2000), *Knowledge Engineering,* Open University of Sri Lanka

5. **Asoka S. Karunananda** (1999), *Introduction to Information Systems,* Open University of Sri Lanka

6. **Asoka S. Karunananda** (1997), *Deductive Reasoning & Prolog for Artificial Intelligence,* Open University of Sri Lanka

7. **Asoka S. Karunananda** (1996), *Programming Perspectives & Languages,* Open University of Sri Lanka

Edited books for Open and Distance Learning

1. **Asoka S. Karunananda**, D. N. Kodikara (2000), *Software Engineering,* Open University of Sri Lanka

2. **Asoka S. Karunananda** and Kithsiri Jayananda (2000), *Digital Computer Fundamentals,* Open University of Sri Lanka

3. **Asoka S. Karunananda** and Carmel Wijegunawardena (2001), *Object oriented programming,* Open University of Sri Lanka

4. **Asoka S. Karunananda** (2002), *Pascal programming,* Open University of Sri Lanka, Sri Lanka

Publication of Online Course material

1. **Asoka S. Karunananda** (co-author) (2008), Mathematics for IT, University of Moratuwa

2. **Asoka S. Karunananda** (2009), Logic Programming, University of Moratuwa

3. **Asoka S. Karunananda** (2009), Intelligent Systems, University of Moratuwa

4. **Asoka S. Karunananda** (2010), Compiler Theory, University of Moratuwa

5. **Asoka S. Karunananda** (2010), Agent Based Systems, University of Moratuwa

6. **Asoka S. Karunananda** (2010), Expert Systems & Natural Language Processing, University of Moratuwa

7. **Asoka S. Karunananda** (2010), Essentials of Machine Learning, University of Moratuwa

Authored books for general public and students

1. **Asoka S. Karunananda** (2007), *How to write your thesis*

2. **Asoka S. Karunananda** (2004), *Artificial Intelligence,* (in bilingual form)

3. **Asoka S. Karunananda** (2002), *Computing for Schools* (in bilingual form)

4. **Asoka S. Karunananda** (2002), *Compass for the computing world* (in bilingual form)

5. **Asoka S. Karunananda** (2001), *Using computers for more work* (in bilingual form)

6. **Asoka S. Karunananda** (2001), *How to do research*

7. **Asoka S. Karunananda** (2001), *Pinki – Motivation for Artificial Intelligence projects*

8. **Asoka S. Karunananda** (2000), *Software* (in bilingual form)

9. **Asoka S. Karunananda** (2000), *How to learn* (in bilingual form)

10. **Asoka S. Karunananda** (1999), *Scientific method and mathematics* (in bilingual form)

11. **Asoka S. Karunananda** (1999), *Internet and its applications* (in bilingual form)

12. **Asoka S. Karunananda** (1998), *Computing for tomorrow's world* (in bilingual form)

Official reports

1. **Karunananda A. S.** (2004), *Proposal for course on General Information Technology*, Open University of Sri Lanka

2. **Karunananda A. S.** (2003) *Intelligent Item Banking System for National Education and Testing Service (NETS)*, Secondary Education Modernisation project, Ministry of Education, Sri Lanka

3. **Karunananda A. S.** (2003), *NETS^{expert} Users Manual*, Secondary Education Modernization project, Ministry of Education, Sri Lanka

4. **Karunananda A. S.** (2002), *Proposal for Introducing Certificate Courses in Computer Applications*, Open University of Sri Lanka

5. **Karunananda A. S.**, G. Bandarage, Pushpakumara Kankanamge (2001), *IT Policy for the Open University of Sri Lanka*

6. **Karunananda A. S.** (1998), *Oral presentations and report writing – Guidelines for Project students*, Open University of Sri Lanka

7. **Karunananda A. S.** (1997), *Quick Guide for Prolog Practical*s, Open University of Sri Lanka

8. **Karunananda A.** S. (1996), *Proposal for Introducing Computer Science as a discipline for B.Sc. degree Programme* offered by Faculty of Natural Sciences, Open University of Sri Lanka

TEACHING EXPERIENCE

- **Software Agents and Swarm Intelligence**, MSc in Artificial Intelligence, University of Moratuwa

- **Evolutionary Computing**, MSc in Artificial Intelligence, University of Moratuwa

- **Essentials of Artificial Intelligence**, MSc in Artificial Intelligence, University of Moratuwa

- **Artificial Cognitive Systems**, MSc in Artificial Intelligence, University of Moratuwa

- **Industry Applications of AI**, MSc in Artificial Intelligence, University of Moratuwa

- **Scientific Communication**, MSc in Artificial Intelligence, University of Moratuwa

- **Research Methodologies**, MSc in Artificial Intelligence, University of Moratuwa

- **Operating Systems,** MSc in IT, Faculty of Information Technology, University of Moratuwa

- **Artificial Intelligence and Expert Systems,** MSc in IT, Faculty of Information Technology, University of Moratuwa

- **Dissertation Writing**, MSc in Town and Country Planning, Faculty of Architecture, University of Moratwa

- **Intelligent Systems,** BSc (Eng.), Faculty of Engineering, University of Moratuwa

- **Programming Languages,** BSc (Eng.), Faculty of Engineering, University of Moratuwa

- **Agent-Based systems,** BSc (Hons) in IT, Faculty of Information Technology University of Moratuwa

- **Intelligent Systems,** BSc (Hons) in IT, Faculty of Information Technology, University of Moratuwa

- **Logic Programming**, BSc (Hons) in IT, Faculty of Information Technology, University of Moratuwa

- **Mathematics for IT**, BSc (Hons) in IT, Faculty of Information Technology, University of Moratuwa

- **Automata Theory,** BSc (Hons) in IT, Faculty of Information Technology, University of Moratuwa

- **Compiler Theory,** BSc (Hons) in IT, Faculty of Information Technology, University of Moratuwa

- **Report and Proposal writing,** BSc (Hons) in IT, Faculty of Information Technology, University of Moratuwa

- **Logic Programming and Expert Systems,** BSc (Hons) in IT, Faculty of Information Technology, University of Moratuwa

- **Artificial Neural Networks and Fuzzy Logic,** BSc (Hons) in IT, Faculty of Information Technology, University of Moratuwa

- **Data structures and Algorithms,** BSc (Hons) in IT, Faculty of Information Technology, University of Moratuwa

- **Artificial Intelligence and Expert systems,** BSc (Hons) in IT, Faculty of Information Technology, University of Moratuwa

- **Artificial Neural Networks,** BSc Special Degree in Computer Science, University of Kelaniya

- **Agent Technology,** BSc in ICT, Rajarata University of Sri Lanka

- **Deductive Reasoning and Prolog for AI,** BSc. Open University of Sri Lanka

- **Genetic Algorithms,** BSc Special Degree in Computer Science, University of Sri Jayawardenapura

- **Artificial Intelligence** & **Expert systems**, M.Sc. degrees offered by universities of Peradeniya

- **Logic Programming** and **Artificial Intelligence**, B.Sc. and M.Sc. degrees offered by University of Colombo

- **Artificial Intelligence** & **Expert systems** for the B.Sc. degrees offered by universities of Keleniya, Peradeniya, Colombo and Jaywardenpura, Sri Lanka

- **Intelligent Systems**, BIT degree, University of Colombo, Sri Lanka

- **Business Information Systems**, M.Sc. degree offered by Keele University, UK, in collaboration with Informatics Institute of Technology, Sri Lanka.

- **E-System Infrastructure development,** M.Sc. degree offered by Charles Sturt University Australia, in collaboration with IDM International Pvt, Sri Lanka

- **Artificial Neural Network**, B.Sc. degree offered by Manchester Metropolitan University UK, in collaboration with Informatics Institute of Technology, Sri Lanka.

- **Artificial Neural Networks** and **Expert Systems** for the course on Decision Support Systems for the B.Sc. degree offered by London Metropolitan University, UK, in collaboration with IDM International Pvt, Sri Lanka

- **Deductive reasoning and Prolog for AI,** *B.*Sc. degree offered by Open University of Sri Lanka

- **Introduction to Information Systems,** for the B.Sc. degree offered by Open University of Sri Lanka

- **Programming perspectives and languages** for the B.Sc. degree offered by Open University of Sri Lanka

- **Introduction to Artificial Intelligence** for the B.Sc in Management Information Systems offered by National Institute of Business Management in Sri Lanka, in collaboration with University College Dublin, Ireland.

- **Information Technology** for MA in Teachers' Education, Open University of Sri Lanka

♦ **Internet Technology** for MA in Teachers' Education, Open University of Sri Lanka

ADMINISTRATIVE EXPERIENCE

.

2015-2017   Dean, Faculty of Computing, General Sir John Kotelawala Defence University

2013-2017   **Dean**, Research and Development, General Sir John Kotelawala Defence University

2009-2012   **Dean,** Faculty of Information Technology, University of Moratuwa

2005-2012   **Professor:** Information Technology

Director: Postgraduate Studies (Faculty of Information Technology)

Head: Computational Mathematics

Director: Information Technology Research Unit

Academic Coordinator: BIT **(**External) Degree Programme

Member: Board of Residence and Discipline

Member: Staff Development Committee

Member: Senate Research Committee

Member: Higher Degrees Committee of the Senate

Member: Curriculum and Evaluation Committee

1995-2001   **Head of Department of Mathematics and Computer Science**, Open University of Sri Lanka

1995 - 2005   At the Open University of Sri Lanka I had done the following admin works.

Chairman: Sub-Committee for developing IT Policy for the Open University

Team leader: Knowledge Based System Development Project

Member: MA in Teachers' Education programme, Open University of Sri Lanka

Adviser: Computer Science Society of the Open University of Sri Lanka

Member: Curriculum and programme development committee

Member: IT Committee of the Open University of Sri Lanka

Member: Natural Science Faculty Higher Degree and Research committee

Member: Natural Science Faculty IT committee

Member: Natural Science Faculty exemption committee

Member: Disciplinary Board of the Open University

Member: Rural Technology Unit

Member: ADB project Coordination Team

STAFF DEVELOPMENT

2017	**Resource Person**: Artificial Intelligence, President's School, Matara, 1st November, 2017

Resource Person: Application of Artificial Intelligence Technologies for ono-computing problems in Academic Research, Sri Lanka Association for Advancement of Sciences in collaboration with Wayamba University of Sri Lanka, 17th August 2017, Wayamba University

Guest Talk, Research for Life, National Day for Research and Development at School, Princess of Wales' Moratuwa, 17th march 2017

Resource Person: Workshop on Academic Landscape of AI, University of Kelaniya, 27th April, 2017

Resource Person: Seminar on How to do Research, Sri Lanka Association for Advancement of Sciences in collaboration with institute of Physics, 25th May 2017, University of Kelaniya

2016   **Invited Talk**, Cultivation of Mindfulness, Faculty of Technology, University of Sri Jayawardenapura, 28th December 2016

Guest Talk: AI in GCE(A/L) ICT, Ferguson College' Ratnapura, 6th July 2016

Guest Talk: Emerging Trends in 21st Century, Rotaract Club, Cineman Grand Hotel, 18th May 2016

Invited Talks: Research Process Reverse Engineering, Faculty of Built Environments and Spatial Science, Suriwewa, 13th May 2016

Guest Lecture: Research Methods, University of Colombo School of Computing, 6th May 2016

Resource person: Workshop on Zotero, Staff Development Centre, KDU, 29th February 2016

Resource person: SLAAI Meet up, Change of Landscape of Artificial Intelligence, Vertusa, 9th March 2016

2015   **Resource person**: Invited talk, *Jargons in Research*, Staff Development Centre, KDU, 23rd September 2015

Resource person: Workshop on Zotero, Staff Development Centre, KDU, 14th July 2015

Chairman: FICB for Computer Science, and Computer Engineering Degrees for the Faculty of Computing, KDU, 3rd July 2015

Resource Person: Classification of Computing Degrees, UGC Standing Committee on Computing, 10th July 2015

Invited Talk: "Value of education", 93th Annual Meeting of Lanka Syshyadhara Society Ltd., 24th May 2015.

2014   **Invited Talk:** "How to do Research", SLAAI/E1 at Sri Jayawardenapura University, 9th October 2014

Participant: Workshop to share experiences on Quality Assurance Activities in Universities, University Grants Commission,

Resource person: Accelerating Research Publications using Zotero – Workshop for Lecturers, KDU, 14th July 2014

Resource person: Workshop on AI – Emerging Trends in AI at University of Ruhuna, organized by Sri Lanka Association for Artificial Intelligence, 6th July 2014

Resource person: Accelerating Research Publications using Zotero – Workshop for Senior Staff, KDU, 11th June 2014

Invited Talk: How technological advancements influence the younger generation, JR Jayawardena Centre, 27th March 2014

2013   **Participant:** The role of universities in knowledge society in Sri Lankan Context, CVDC Conference -2013, 29-30 Novemebr 2013, Bandarawela

Resource Person: Workshop on Revision of Computing Curriculum, Sri Jaywardenapaura University, 24 September 2013

2012   **Resource person:** Doing Researches - An integral part of academia, General Sir John Kotelawala Defence University, 14th January 2012

2011   **Resource person:** Introduction to Artificial Intelligence, Ruhunu Wijayba Mahavidyalaya, Organized by Sri Lanka Association for Artificial Intelligence, 13th June 2011

2010   **Resource person:** New trends in Computing, Sabaragamuwa University of Sri Lanka, Organized by Sri Lanka Association for Artificial Intelligence, 8th September, 2010

2009   **Chief Guest and Key note address:** Junior Science Day, Piliyandala Central College, Organized by National Science Foundation, 23rd October 2009

Resource person: Seminar for Popularization of AI, Organized by Sri Lanka Association for Artificial Intelligence jointly with ITRU, 24th June 2009

2009   **Resource person:** Artificial Intelligence- future of artifacts, Devibalika Vidyalaya, Organized by Sri Lanka Association for Artificial Intelligence, 19th February 2009

2008   **Organizer:** Lecture series by Professor George Rzevski, Dec. 01-23, 2008

Resource person, Workshop on Artificial Intelligence in ONE day, Sri Lanka Association for Artificial Intelligence, 22 August 2008

Public talk, Research potentials in Sri Lanka, Open University of Sri Lanka, Staff development, 23rd July 2008

Resource person: How to write your thesis, Workshop on scientific writing for MSc students of Faculty of Architecture, 28th June 2008

Public talk, Artificial Intelligence, Junior Science Day, St. Thomas College, 27th June 2008

Organizer of training Workshop: Development of Multi Agent Systems, by Anatasios of Rzevski Solutions, UK, March 14-26, 2008

2007   **Organizer:** Training visit (jointly with Dept. of Mechanical Engineering) by Prof. George Rzevzki, Ontology and Multi Agent Systems, 13-23 September 2007

Resource person, Scientific Writing, Workshop on Dissertation Supervision, faculty of Architecture, University of Moratuwa, 13th August 2007

Coordinators: Staff Development Programme on IT: Basic Course, IT for Administrators, May 2007

2006 **Coordinator:** Staff Development Programme on IT: Basic Course, IT for Office Applications, IT for Administrators, July-November 2006

Resource person: Staff Development Training for IT for Administrators, University of Moratuwa, 19th October, 2006

Resource person: Getting started and keep moving in your research degree – Conducted for MPhil/PhD degree candidates and staff of IT Faculty, University of Moratuwa, 8th August 2006

Resource person: Finding your way of doing research – conducted for postgraduates and staff of Jayewardenepura University, 23rd August 2006

Resource person: How to write your MSc thesis, University of Moratuwa, 1st July 2006

2005 **Resource person:** How to do research – MSc in Computer Science, University of Moratuwa, 1st October 2005

SERVICES AT THE NATIONAL LEVEL

2009   **President:** Sri Lanka Association for Artificial Intelligence

2006   **Consultant:** Churn Prediction Project in the Dialog Research Lab, University of Moratuwa

    Consultant: Fingerprint Identification System for the Police Department

    Chairman: Committee for popularization of AI, Sri Lanka Association for Artificial Intelligence

2005   **Chairman:** Research Committee, Sri Lanka Association for Artificial Intelligence

    Chairman: Technical Evaluation Committee, NSF

    Consultant: Curriculum Development for Computer Science Degree programme, Rajarata University of Sri Lanka

    Editor, Sri Lanka Association for Artificial Intelligence

    Resource person: Curriculum Revision for National Certificate for Computer Application, National Institute of Education

    Resource person: ICT for Schools (GIT), Ministry of Education

2004   **Consultant:** Maldives Teachers Training programme offered by National Institute of Education, Sri Lanka

    Consultant: Intelligent Software Unit, IDM International Pvt (Ltd).

    Consultant: Preparing Technical Specification for Automated Fingerprints Identification system for police department of Sri Lanka

    Reviewer, Journal of the National Science Foundation, Sri Lanka

2003/04   **President:** Sri Lanka Association for Artificial Intelligence

Vice-President: Sri Lanka Association for Advancement of Science, Physical Science Section

Member: National Curriculum Consultative committee, National Institute of Education

Member: Industry-University Forum, Representative of UGC Standing committee on IT Development

2002/03   **Consultant:** Secondary Education Modernization Project (SEMP), Developing Intelligent Item Banking System for National Evaluation and Testing Service, Ministry of Education

Vice-President: Sri Lanka Association for Artificial Intelligence

2002   **Consultant:** Establishment of a Computer Resource centre for Western Provincial Council in Sri Lanka

Chairman: Technical Evaluation Committee, Ministry of education

2001   **Member:** Sub-committee for Revision of Recruitment Criteria/Designation for Information Technology Staff, UGC standing committee on IT Development

2000/05   **Member:** Research Committee on Information Technology, National Science Foundation

Member: Standing committee on Information Technology Development, University Grant Commission (UGC)

2000/02   **Member:** International and National Olympiads of in Informatics

1999/2000   **Member:** Sri Lanka Inter-university Committee on Computing

Member: Science and Technology working committee, National Science Foundation

1999   **Member/Editor:** Lanka Educational and Research Network (LEARN) Management Committee

Services through the Media

2014   TV Presentation, Derana Sedamawath, Research at KDU, 26th February 2014.

2013   News paper article on Computer Education Beyond IT Degrees

2003   TV presentation: _Using Information Technology_, e@sanida , Rupavahini

2004   TV Presentation: _IT Education Fair_, 3 to 5, Rupavahini

2003   News paper article on "_Toraturu thakshana Edandata Atwelak_", Divaina

2003   Radio discussion: _Information Technology_, Vidulowa

2002   Radio discussion: _Artificial Intelligence_

2001   News paper article on "_Sisuparapurata sithanna yamak_", Navaygaya

News paper article on "_Mawbasa nohakiwa parabasa kumatada_", Divaina

Interview on _Information Technology_ "Lakuna ?" Divaina

	News paper article on *Computer Education-Where are we in Sri Lanka*, Island
	Popularizing mathematics education, Rupavahini, Education service
	Learning mathematics, Rupavahini, Education Service
	News paper article *IT, Law and Ethics,* Vidusara
	News paper article on *Computer Technology,* Vidusara
1999	News paper article on *Customising Computer Technology for Sri Lanka*, Observer
	News paper article on *Computer Virus*es, Vidusara
	News paper article on *Y2K Problem,* Vidusara
1998	News paper article on *Intelligent Machines* Vidusara
98/2000	Series of Articles on *Computer Technology* for Vidusara Science Magazine

REFERENCE

Prof. Ananda Jayawardena, Vice-Chancellor, University of Moratuwa, akwj@civil.mrt.ac.lk

Prof. George Rzevski, Emeritus Professor, British Open University, UK, george@rzevski.net