



SRI LANKA ASSOCIATION FOR
ARTIFICIAL INTELLIGENCE
15th Annual Sessions

3rd SLAAI - International Conference on Artificial Intelligence

(SLAAI-ICAI-2019)

Technical Session Schedule

12th December 2019
Sabaragamuwa University of Sri Lanka
Belihuloya

Time	Parallel Session I (Room: LT 206)
	<p>P1: Technical Session I Session Chair: Dr. Dongming Xu</p> <p>Panel Members: Dr. B. T. G. S. Kumara Dr. S. Vasanthapriyan Dr. Menaka Ranasinghe</p>
11.15-11.30 am	<p>P1T1.01-1570598910</p> <p>A Novel Hybrid Approach Based on Back Propagation Neural Network and SARIMA for Inspection Time Series Forecasting Under the Seasonality <i>R. M. K. T. Rathnayaka, D. M. K. N. Seneviratna</i></p>
11.30-11.45 am	<p>P1T1.02-1570596379</p> <p>iPersonalityReader: An Application to Assess the Personality of a Person via Face Image Using Pre-Trained Convolutional Neural Networks <i>K. Ilmini, T. G. I. Fernando</i></p>
11.45-12. 00	<p>P1T1.03-1570593517</p> <p>Mobile Application to Identify Fish Species Using YOLO-Based Convolutional Neural Networks <i>K. Priyankan, T.G.I. Fernando</i></p>
12.00-12.15 pm	<p>P1T1.04-1570597753</p> <p>A Convolutional Neural Network Approach for Identification of Red-vented Bulbul <i>G. Chathuranga, A. Chathurangi, K. Rathnayaka, S. Perera</i></p>
12.15-12.30 pm	<p>P1T1.05-1570597677</p> <p>Identification of Snake Species in Sri Lanka Using Convolutional Neural Networks <i>S.B. Abayaratne, W.M.K.S. Ilmini, T.G.I. Fernando</i></p>

12.30-12.45 pm	P1T1.06-1570593141 Electricity Load Forecasting Using Optimized Artificial Neural Network <i>M. H. M. R. S. Dilhani, N. M. Wagarachchi, K. J. C. Kumara</i>
12.45-01.00 pm	P1T1.07-1570610949 Object Detection in Surveillance Using Deep Learning Methods: A Comparative Analysis <i>Dharmender Saini, Narina Thakur, Rachna Jain, Preeti Nagrath, D Jude Hemanth, Nitika Sharma</i>
01.00-01.45 pm	Lunch
	P1: Technical Session II Session Chair: Dr. Dongming Xu Panel Members: Dr. B. T. G. S. Kumara Dr. S. Vasanthapriyan Dr. Menaka Ranasinghe
01.45-02.00 pm	P1T2.01-1570603398 Shape Adaptive RBF Neural Network for Model Based Nonlinear Controlling Applications <i>K. J. C. Kumara, M.H.M.R.S. Dilhani</i>
02.00-02.15 pm	P1T2.02-1570597634 Speech to Text Summarization Using Recurrent Neural Network <i>K. Balasundaram, C. R. J. Amalraj</i>
02.15-02.30 pm	P1T2.03-1570599842 Evaluating the Performance of Language GANs with Small Seed Corpora <i>I. Jayasinghe, S. Ranathunga</i>
02.30-02.45 pm	P1T2.04-1570597660 Pseudoscience Detection Using a Pre-Trained Transformer Model with Intelligent ReLabeling <i>T. C. Rajapakse, R. D. Nawarathna</i>

02.45-03.00 pm	P1T2.05-1570594419 A User-oriented Ensemble Method for Multi-Modal Emotion Recognition <i>N. Iddamalgoda, P. Thrimavithana, H. Fernando, T. Ratnayake, P. Yapa, R. Aththidiye, D. Kasthurirathna</i>
03.00-03.15 pm	P1T2.06-1570597301 Empirical Analysis of Deep Learning Approach for Driver Behavior and Faulty Determination <i>S. N. Ariyathilake, R. M. K. T. Rathnayaka</i>
03.15-03.30 pm	P1T2.07-1570597702 A Lucrative Model for Identifying Potential Adverse Effects from Biomedical Texts by Augmenting BERT and ELMo <i>S. T. Jarashanth, R. D. Nawarathna</i>
03.45-04.00 pm	Refreshments
04.30-04.45 pm	Award Ceremony
04.45 pm	Conference Concludes

Time	Parallel Session II (Room: LT 207)
	<p>P2: Technical Session I Session Chair: Dr. Mihirini Wagaarachchi</p> <p>Panel Members: Dr. U. A. P. Ishanka Dr. E. M. U. W. J. B. Ekanayake Dr. Thushari Silva</p>
11.15-11.30 am	<p>P2T1.01-1570598173 Deep Inside Feature Learning for Image Classification <i>R. Surendran, D. J. Hemanth</i></p>
11.30-11.45 am	<p>P2T1.02-1570597381 Early Detection of Diabetes by Iris Image Analysis <i>M. Ranasinghe, H. K. Yashodhara</i></p>
11.45-12.00	<p>P2T1.03-1570592441 A Novel Palmprint Cancelable Scheme Based on Orthogonal IOM <i>Xiyu Wang, Hengjian Li</i></p>
12.00-12.15 pm	<p>P2T1.04-1570597550 Speaker Identification - From a Conversational Perspective <i>H. Balasubramaniam, C.R.J. Amalraj</i></p>
12.15-12.30 pm	<p>P2T1.05-1570597161 LULC Segmentation of RGB Satellite Image Using FCN-8 <i>Abu Bakar Siddik Nayem, Anis Sarker, Amin A Ali, M Ashrafal Amin, Akmmahbubur Rahman</i></p>

12.30-12.45 pm	P2T1.06-1570597559 Speaker Change Detection and Voice Clustering for Conversational Speech <i>M. Krishnathasan, C.R.J. Amalraj</i>
12.45-01.00 pm	P2T1.07-1570591418 Bloom Filter Based Cancelable Palmprint Template Generation Scheme and Application for Recognition <i>Hengjian Li</i>
01.00-01.45 pm	Lunch
	P2: Technical Session II Session Chair: Prof. Asoka Karunananda Panel Members: Dr. U. A. P. Ishanka Dr. E. M. U. W. J. B. Ekanayake Dr. Thushari Silva
01.45-02.00 pm	P2T2.01-1570594598 An Intelligent Framework for Online Product Recommendation Using Collaborative Filtering <i>D. J. Hemanth</i>
02.00-02.15 pm	P2T2.02-1570585269 Making Social Media Advertisements Viral in WWW <i>K. Kabillesh, S. Sumathipala</i>
02.15-02.30 pm	P2T2.03-1570588040 Novel Method to Analyze and Forecast Social Impact on Macro and Micro Economies Using Social Media Data <i>S. Y. Weerasinghe, G. U. Ganegoda, N. Waduge, A. Udadeniya, R. de Zoysa</i>
02.30-02.45 pm	P2T2.04-1570597706 Prediction of Malocclusion Pattern of the Orthodontic Patients Using a Classification Model <i>A. M. I. C. K. Jayathilake, L. S. Nawarathna, P. N. P. S. Nagarathne</i>

02.45-03.00 pm	P2T2.05-1570599833
	An Ensemble Learning Approach for Automatic Emotion Classification of Sri Lankan Folk Music <i>J. Charles, S. Lekamge</i>
03.00-03.15 pm	P2T2.06-1570594146
	Machine Learning Approach Based Novel Model for Opinion Mining and Sentiment Polarity Estimation <i>H. K. S. K. Hettikankanama, S. Vasanthapriyan, K. T. Rathnayake</i>
03.15-03.30 pm	P2T2.07-1570598002
	Intelligent System to Identify the Music Instrument Sound from a Music Audio File <i>U. D. Rodrigo, H. U. W. Ratnayake, I. A. Premaratne</i>
03.45-04.00 pm	Refreshments
04.30-04.45 pm	Award Ceremony
04.45 pm	Conference Concludes

Time	Parallel Session III (Room: Mini Auditorium)
	<p>P3: Technical Session I Session Chair: Prof. Lipo Wang</p> <p>Panel Members: Dr. L. S. Lekamge Dr. Sagara Sumathipala Dr R. M. K. T. Rathnayaka</p>
11.15-11.30 am	<p>P3T1.01-1570597655</p> <p>Roadmap of Artificial Intelligence - Concepts to Reality and Future <i>Asoka Karunananda</i></p>
11.30-11.45 am	<p>P3T1.02-1570597713</p> <p>Healthy Sri Lankan Meal Planner with Evolutionary Computing Approach <i>M. I. M. Jayarathna, W. A. C. Weerakoon</i></p>
11.45-12.00	<p>P3T1.03-1570597695</p> <p>Whale Optimization Algorithm for Solving Task Scheduling Problem in Fog Computing Environment <i>K. P. Jayasena, B. Sudheera Thisarasinghe</i></p>
12.00-12.15 pm	<p>P3T1.04-1570594549</p> <p>Ant Colony Optimization Based Solution for Finding Trustworthy Nodes in a Mobile Ad-hoc Network <i>G.M. Jinarajadasa , S.R. Liyanage</i></p>
12.15-12.30 pm	<p>P3T1.05-1570597496</p> <p>MaSMT4: The AGR Organizational Model Based Multi-agent System Development Framework for Machine Translation <i>B. Hettige, A. Karunananda, G. Rzevski</i></p>
12.30-12.45 pm	<p>P3T1.06-1570593824</p>

	Fuzzy Logic-based Approach for Back Analysis of VISA Granting Process <i>S. S. Thenuwara, R. A. R. C. Gopura</i>
12.45-01.00 pm	P3T1.07-1570593842 Design and Development of Fuzzy Logic Controller for Magnetic Levitation System <i>G. M. K. B. Karunasena, H. D. N. S. Priyankara</i>
01.00-01.45 pm	Lunch
	P3: Technical Session II Session Chair: Prof. Lipo Wang Panel Members: Dr. L. S. Lekamge Dr. Sagara Sumathipala Dr. R. M. K. T. Rathnayaka
01.45-02.00 pm	P3T2.01-1570597158 Human Nervous System Cancer Mutation Analysis from Protein Sequences and Structures <i>S.P.B.M. Senadheera, A.R. Weerasinghe, C.R. Wijesinghe</i>
02.00-02.15 pm	P3T2.02-1570594280 A Review on Data Mining Techniques for Internet of Things <i>T. Samarasingha, M. P. Dhanushika</i>
02.15-02.30 pm	P3T2.03-1570597724 ALLY: Early Warning System for Asthma Patients based on IoT and AI <i>H. W. H. Premachandra, N. Chathuranga, C. Rathnawardhana, M. Nowfeek, C. Jayawardena</i>
02.30-02.45 pm	P3T2.04-1570597756 Association Rules Identification in Nervous System Tumors Mutation Data <i>S.P.B.M. Senadheera, A.R. Weerasinghe, C.R. Wijesinghe</i>
02.45-03.00 pm	P3T2.05-1570594244

	Role of Toxic Heavy Metals in Induction of Oxidative Stress in CKDu <i>S. W. A. M. Upamalika, C. T. Wannige, S. M. Vidanagamachchi</i>
03.00-03.15 pm	P3T2.06-1570593835 Ontology Based Answer Extraction for Customer Support in Transportation Service <i>E. A. Karunarathne, C. M. Weerakonda Arachchi, G. C. Perera, W. A. M. N. Bandara, G. U. Ganegoda</i>
03.15-03.30 pm	P3T2.07-1570597136 Feature-wise Opinion Summarization of Consumer Reviews Using Domain Ontology <i>D. Vidanagama, T. Silva</i>
03.30-03.45 pm	P3T2.08-1570597159 An Ontology Based Personalized Postgraduate Degree Recommendation System <i>J. C. Jagoda, T. Silva</i>
03.45-04.00 pm	Refreshments
04.00-04.15 pm	P3T2.09-1570597145 A Robotic Solution for Traditional Drums in Sri Lanka- Thammattama <i>S. T. Goonatileke, B. Hettige</i>
04.15-04.30 pm	P3T2.10-1570597780 Robotic Process Automation (RPA): Decision Support Tool to Select Candidate Business Process: Empirical Study <i>K.V.J. Padmini, G.I.U.S. Perera, H.M.N. Dilum Bandara, R.K.O.H. Silva</i>
04.30-04.45 pm	Award Ceremony
04.45 pm	Conference Concludes