

Technical Sessions

Inaugural Session

Friday 15th December, 09.00 – 10.30

Keynote Session 1

Friday 15th December, 11.00 – 11.45

Prof. Vladimir Terzija

University of Manchester, United Kingdom.

“Future Power Systems Supported by Synchronized Measurement Technology and Applications”

Keynote Session 2

Friday 15th December, 11.45 – 12.30

Prof. Priyantha Wijayatunga

Director, South Asia Energy Division at Asian Development Bank.

“Role of High Level Technologies in Climate Change Mitigation in the Energy Sector”

Session 01

Session 01 - Track A (Room A)

Friday 15th December, 01.30 – 03.00

PHV - Power, Energy and High Voltage Engineering – Effects of Photovoltaic Systems on Power Systems

Session Chairs: Chair – Prof. Kithsiri Liyanage, Co-chair – Dr. Shehan Lowe

Applicability of Conservation Voltage Reduction to Distribution Networks with Photovoltaic Generation Considering Various Load Characteristics

Taisuke Masuta; Shota Asano; Viet Nguyen

Impact of Generator Failures on Photovoltaic Energy Curtailment in Power Systems with Large-scale Integration of Photovoltaic Generation

Taisuke Masuta; Shinya Ito; Daiki Kobayashi; Hideaki Ohtake

Effects of High Levels of Harmonic Penetration in Distribution Networks with Photovoltaic Inverters

Asanka S Rodrigo; Omesha Anurangi; Upuli Jayatunga

Identification of Potential Islanding Initiators in Radial Feeders with High Solar PV Penetration for Preemptive Preparedness

Shashank Vyas; Rajesh Kumar

Dispatchable Solar Photovoltaic Power Generation Planning for Distribution Systems

Nand Kishor Meena; Anil Swarnkar; Nikhil Gupta; Khaleequr Niazi

Cross-Correlation Based Cloud Motion Estimation for Short-Term Solar Irradiation Predictions

Lasanthika Harshani Dissawa; Gunawath Mudiyansele Roshan Indika Godaliyadda; Mervyn Parakrama Ekanayake; Ashish Agalgaonkar; Janaka Ekanayake

Session 01 - Track B (Room B)

Friday 15th December, 01.30 – 03.00

CES - Computer and Embedded Systems

Session Chairs: Chair- Dr. Kamalanath Samarakoon, Co-chair- Dr. Swarnalatha Radhakrishnan

Analysis and Prediction of Conflicts Between Allergies and Medication

Dulani Meedeniya, Darika Sellahewa, Lakshan Gamage, Yasiru Nilan, Shalith Fernando

Modelling and Simulation Analysis of the Genetic-Fuzzy Controller for Speed Regulation of a Sensored BLDC Motor Using MATLAB/SIMULINK

Hasitha Ruwan Jayetilleke, Ravi de Mel, Hemali U. W. Ratnayake

A Comprehensive Secure Email Transfer Model

Geethapriya Liyanage, Shantha Fernando

Session 01 - Track C (Room C)

Friday 15th December, 01.30 – 03.00

BMS - Big Data, Machine learning, Smart Systems and IoT

Session Chairs: Chairs: Chair - Dr. Sonali Agarwal, Co-chair- Mr. Sampath Deegalla

Combination of Rule Based Classification and Decision Trees to Identify Low Quality ECG

Mohammadu Rizan Mohamed Athif, Chathuri Daluwatte

Synergistic Union of Word2Vec and Lexicon for Domain Specific Semantic Similarity

Keet Sugathadasa, Buddhi Ayesha, Nisansa D de Silva, Shehan Perera, Vindula Jayawardana, Dimuthu Lakmal, Madhavi Perera

MAG-SIoT: A Multiplicative Attributes Graph Model Based Trust Computation Method for Social Internet of Things

Uthpala Premarathne

A Recurrent Neural Network Approach in Predicting Daily Stock Prices: An Application to the Sri Lankan Stock Market

Aravinda Jayanath Pallewela Samarawickrama, Shantha Fernando

Use of a Novel Hash-Table for Speeding-up Suggestions for Misspelt Tamil Words

Ratnasingam Sakuntharaj, Sinnathamby Mahesan

Session 01 - Track D (Room D)

Friday 15th December, 01.30 – 03.00

BN - Biomedical Engineering and Nanotechnology

Session Chairs: Chairs: Chair-Dr. Lilantha Samaranayake, Co-chair- Dr. Hirenkumar G. Patel

A System to Assess Endothelial Dysfunction by Combining Peripheral Arterial Tonometry with Digital Thermal Monitoring

Yashish Maduwantha, Dushyanthi Karunathilake, Anjula C. De Silva, Saroj Jayasinghe

Intravenous Anesthesia Automation with Internal and Instrumental Delay

Bhavina Patel, Hirenkumar G Patel

Fetal Heart Abnormality Detection Based on Subspace Separation and Wiener Filtering

Samitha Gunarathne, Gihan Wansekara, Hasitha Wimalarathna, Gunawath Mudiyansele Roshan Indika Godaliyadda, Mervyn Parakrama Ekanayake, Janaka Wijayakulasooriya, Chathura Rathnayake

Design of UDE Based Robust Tracking Controller for Knee-Joint Orthosis

Chandar TS, Neha Kanchetti, Charulika Kohli

Session 01 - Track E (Room E)

Friday 15th December, 01.30 – 03.00

ISP - Image and Signal Processing – Signal and Image Processing for Computer Vision

Session Chairs: Chair - Dr. Parakrama Ekanayake, Co-chair - Dr. Chameera Edussooriya

Generation of Intermediate Viewpoints for Scalable Adaptation of Real World Environments for Virtual Reality

Sachini Herath, Vipula Dissanayake, Sanka Rasnayake, Rajith Vidanaarachchi, Sachith Seneviratne, Chandana Gamage

Real-time Pedestrian Mapping from Camera View to World Space

Madhawa Vidanapathirana, Imesha Sudasingha, Jayan Chathuranga Vidanapathirana, Pasindu Kanchana Indika Perera

Multidimensional Spatio-Temporal Filters for Depth-Velocity Filtering in Light Field Videos

Chamira U. S. Edussooriya, Chamith Wijenayake, Leonard T. Bruton, Panajotis Agathoklis

Face Anti-spoofing Based on Sharpness Profiles

Kannan Karthik, Balaji Katika

Stability Analysis of Uncertain and Delayed Discrete Systems Using ROLMIP

Bhupendra Das, Siva Kumar Tadeipalli

Keynote Session 3

Friday 15th December, 3.00 – 3.45

Prof. Arumugam Nallanathan

Queen Mary University of London, United Kingdom.

“Massive Internet of Things: Opportunities and Challenges”

Session 02

Session 02 - Track A (Room A)

Friday 15th December, 04.15 – 05.45

PHV - Power, Energy and High Voltage Engineering – Power Electronic Applications and Photovoltaic cells

Session Chairs: Chair – Prof. Taisuke Masuta, Co-chair – Dr. Prabath Binduhewa

Design Optimization and Implementation of Multiband Rectenna for Efficient Radio Frequency Energy Harvesting

Bablu Singh; Saswati Ghosh; Saswat Chakrabarti

Inductive Power Transmission, Charging and Communication for Implantable Devices

Chandima Dedduwa Pathirana; Indunil Dayarathna; Kavindu Dharmasiri; Hirun Weeresinghe

Advancements in Fouling Removal Using High Power Ultrasonics for Industrial Applications

Habiba Lais; Premesh Lowe; Jamil Kanfoud; Tat-Hean Gan

Session 02 - Track B (Room B)

Friday 15th December, 04.15 – 05.45

CES - Computer and Embedded Systems

Session Chairs: Chair- Dr. Roshan Ragel, Co-chair- Dr. Asitha Bandaranayake

Separating Tables from Text and non-Text Objects in Printed Documents for Reconstruction

M. A. C. Akmal Jahan, Roshan G. Ragel

Implementing a Proven-secure and Cost-effective Countermeasure Against the Compression Ratio Info-leak Mass Exploitation (CRIME) Attack

Jayamine Alupotha, Sanduni Prasadi, Mohamed Fawsan, Janaka Alawatugoda, Roshan G. Ragel

A Comparative Study of Hybrid Models of Selective Classification and Dynamic Selection of Analogies for Software Development Effort Estimation

Swarnima Singh Gautam, Vrijendra Singh

Session 02 - Track C (Room C)

Friday 15th December, 04.15 – 05.45

BMS - Big Data, Machine learning, Smart Systems and IoT

Session Chairs: Chair- Dr. Sonali Agarwal, Co-chair- Dr. Kamalanath Samarakoon

Comparison of Different NN Training Functions of NARX Architecture for Financial Time Series

Anjali Gautam, Vrijendra Singh

Texture Based Image Recognition Using Deep Neural Networks

Hansika Gunasekara, Janaka Wijayakulasooriya, Chathuriaka Dharmagunawardhane

Cross Domain Sentiment Analysis Using Transfer Learning

Bharat Gupta, Shivam Awasthi, Parshant Singh, Likhama Ram, Pramod Kumar, Bakshi Rohit Prasad, Sonali Agarwal

A Sophisticated Convolutional Neural Network Model for Brain Tumor Classification

Narmada M Balasooriya, Ruwan D Nawarathna

Session 02 - Track D (Room D)

Friday 15th December, 04.15 – 05.45

EI – Electronics and Instrumentation

Session Chairs: Chair- Dr. K. R. M. N. Ratnayake, Co-chair- Dr. Waranatha Abeygunasekera

A Novel Approach to Implement a Closed Loop Controlled Power Converter in Thermal Vacuum Tubes

Dimuthu Arachchige

Investigation on PhC Based T-shaped Waveguide as All-Optical XOR, NOT, OR and AND Logic Gates

Enaul haq Shaik, R Nakkeeran

Differentiation of Signals Generated by Eye Blinks and Mouth Clenching in a Portable Brain Computer Interface System

Vibodha Bandara, Asiri Nanayakkara

Session 02 - Track E (Room E)

Friday 15th December, 04.15 – 05.45

ISP - Image and Signal Processing – Signal/Image Processing and Machine Learning

Session Chairs: Chairs: Chair - Dr. Janaka Wijayakulasooriya, Co-chair - Dr. Parakrama Ekanayake

Object Extraction and Classification in HEp-2 Images Using Level Set and Rotation Forest Classifier

Suhail Parvaze Pathan, Ramakrishnan Swaminathan

A Feature-Driven Hierarchical Classification Approach to Emotions in Speeches Using SVMs

Shajini Majuran, Amirthalingam Ramanan

Expression Neutralization Based Expression-Invariant Face Recognition Algorithm for Single Training Sample Problem

Tharshini Gunendradasan, Vinothine Shanmugarajah, Harisha Sathananthan, Janathan Thiruchelvam, Gunawath Mudiyansele Roshan Indika Godaliyadda, Mervyn Parakrama Ekanayake, Janaka Wijayakulasooriya

Spectral-Spatial Hybrid Mechanism for Feature Detection Using Spectral Correlation

Ruwanthi Abeysekera, Sajani Vithana, Shane Oorloff, Anuththara Rupasinghe, Vijitha R Herath, Gunawath Mudiyansele Roshan Indika Godaliyadda, Mervyn Parakrama Ekanayake

Session 03

Session 03 - Track A (Room A)

Saturday 16th December, 08.30 – 10.00

PHV - Power, Energy and High Voltage Engineering – Power Systems

Session Chairs: Chair – Prof. Janaka Ekanayake, Co-chair – Dr. Sudheera Navaratne

Invited Paper - Converters for the Grid Integration of Wind Farms

Sarath B Tennakoon; Samir Alagab

Adaptive Network Approach to Synchronization and Clustering in Power Grid

Lobhus Mate; Prasang Gadpale; Madhavi Parimi

Genetic Algorithm Based Cost Optimization to Integrate a Community Based Wind Turbine While Considering Smart Appliances Scheduling

Akila Wijethunga; Janaka Wijayakulasooriya; Kamalanath Samarakoon; Janaka Ekanayake; Ashoka Polpitiya

Implementation of a Domestic Power Line Quality Measurement System

Krishnananthalingam Prashanth; Tharmarajah Thiruvaran; Anandanadarajah Nishanth; Vinothine Shanmugarajah; Narendran Thiruthanikan; Selvaluxmi Selvarajan

Identifying the Presence of Forced Oscillations Using Oscillation Signatures

Akbo Rupasinghe; Udaya Annakkage

Session 03 - Track B (Room B)

Saturday 16th December, 08.30 – 10.00

CI - Communication and Information

Session Chairs: Chair: Dr. Vijitha Herath, Co-chair: Dr. Saman Atapattu

HIP- LTE Backhaul Network A Security Enhancement Using HIP

C.S.Weliwita, S.N. Karunaratne, M. Sandirigama

Camera Based Visible Light Communication System for Underwater Applications

M.S.M. Akram, L.G.D. Aravinda, M.K.P.D. Munaweera, G.M.R.I. Godaliyadda, M.P.B. Ekanayake

Impact of Residual Self-Interference and Direct-Link Interference on Full-Duplex Relays

Saman Atapattu, Yuanyuan He, Prathapasinghe Dharmawansa and Jamie Evans

Wavelength Conversion Scheme for Dedicated Protection in WDM Optical Networks

Satkunarajah Suthaharan, Niruthya Ravithas and Fathima Sharfana

Evaluation of Blocking Constraints for Survivable WDM Optical Networks

Satkunarajah Suthaharan, Fathima Sharfana A, and Shagitha Thiruvanantharajah

Session 03 - Track C (Room C)

Saturday 16th December, 08.30 – 10.00

BMS - Big Data, Machine learning, Smart Systems and IoT

Session Chairs: Chairs: Chair- Dr. Dhammika Elkaduwa, Co-chair- Dr. Chathurika Dharmagunawardhane

Review Paper for Implement a Model to Forecast Sri Lanka Wholesale Price Index Using Big Data Analytics

Perummuni Mudiyansele Thakshila

Predictive Model for the Dengue Incidences in Sri Lanka Using Mobile Network Big Data

Suchira Dharmawardana, Menaka Sirisena, Janitha Lokuge, Pramod Dassanayake, Lasantha Fernando, Shehan Perera, Sriganesh Lokanathan

Hybrid Approach for Master Data Management

Lahiru Fernando, Prasanna S. Haddela

Passenger Mobility Prediction Using A Taxi Service Dataset

Gamage Perera, Shehan Perera

Comparison of Supervised Machine Learning Techniques for PD Classification in Generator Insulation

Gayantha Herath, Sarath Kumara, Ramesh Fernando, Kapila Bandara, Ivan Serina

Session 03 - Track D (Room D)

Saturday 16th December, 08.30 – 10.00

RA - Robotics, Control and Automation – Advanced topics in field robotics

Session Chairs: Chairs: Chair- Dr. Lilantha Samaranyake, Co-chair- Dr. Nalin Harischandra

Invited paper - Environment Representation for Mobile Robot Localisation

Ravindra Ranasinghe; Gamini Dissanayake; Tomonari Furukawa; Janindu Arukgoda; Lakshitha Dantanarayana

A Comparative Analysis on the Development of an Improved Parallel Autonomous Vacuum Cleaning System

Helani Wickramaarachchi; Pathum Chamikara; Chulaka Ratnayake

Autonomous Exploration Planning Strategy for a Reconnaissance Agent

Neelanga Thelasingha; Sachini Ekanayake; Bavantha Udugama; Gunawath Mudiyansele Roshan Indika Godaliyadda; Mervyn Parakrama Ekanayake; Lilantha Samaranyake; Janaka Wijayakulasooriya

Session 03 - Track E (Room E)
Saturday 16th December, 08.30 – 10.00

ISP - Image and Signal Processing – Signal and Image Processing Applications
Session Chairs: Chairs: Chair - Dr. Aruna Gunawardena, Co-chair - Dr. Lochandaka Ranathunga

Robust and Adaptive Watermarking Technique for Digital Images
Reka Sandaruwan, Lochandaka Ranathunga

Outdoor Human Navigation with GPS and Sensor Systems
Kasun Weerakoon, Thivanka Withanaarachchi, Sanjaya Rupasinghe, Gunawath
Mudiyanselage Roshan Indika Godaliyadda, Mervyn Parakrama Ekanayake

Automated TV Commercial Tracking and Auditing
Ramindu Senarath, Chehara Pathmabandu, Sampath Kularathna, Lochandaka Ranathunga

Procedural Approach for Content Segmentation of Old Newspaper Pages
Lochandaka Ranathunga, Samitha Chathuranga

Sketch Based Database Querying System
Amila Jayawardhana, Lochandaka Ranathunga, Supunmali Ahangama

Keynote Session 4

Saturday 16th December, 10.30 – 11.15

Prof. Matti Latva-aho

University of Oulu, Finland.

“5G Wireless Systems Research – is there still something to be done?”

Session 04

Session 04 - Track A (Room A)

Saturday 16th December, 11:30 – 01.00

PHV - Power, Energy and High Voltage Engineering – Electric Vehicles, Energy Storage and Electrical Machines

Session Chairs: Chair –Dr. Sunil Abeyratne, Co-chair – Dr. Sarath Kumara

Electrical Vehicle Charging Demand Prediction Using Wavelet Based Analysis

Imara Nazar; Kithsiri M Liyanage

Design of a Dual Energy Storage Power Converter for a Small Electric Vehicle

Nuwan Herath; Prabath Janaka Binduhewa; Lilantha Samaranayake; Janaka Ekanayake; Stefano Longo

Development in the Ionic Liquid Based Electrolytes for Lithium-Ion Batteries

Ewelina Bolimowska; Lilantha Samaranayake; Catherine Santini; Hamed Yahoui

Direction Independent U-function Based Sensorless Control of BLDC Motor

Umesh K. Soni; Ramesh Kumar Tripathi

Session 04 - Track B (Room B)

Saturday 16th December, 11:30 – 01.00

CI - Communication and Information – Special Session on 5G

Session Chairs: Chair: Prof. Matti Latva-aho, Co-chair: Dr. Himel Suraweera

Invited Talk 1

Prof. Ari Pouttu

University of Oulu, Finland.

“5 G and Verticals: the case of Energy - P2P Approach”

Invited Talk 2

Prof. Nandana Rajatheva

University of Oulu, Finland.

“Channel Coding methods for 5G”

Invited Paper - Micro Operators Accelerating 5G Deployment

Marja Matinmikko-Blue and Matti Latva-aho

Invited Talk 3

Prof. Anil Fernando

University of Surrey.

“Channel Coding methods for 5G”

Session 04 - Track C (Room C)

Saturday 16th December, 11:30 – 01.00

BMS - Big Data, Machine learning, Smart Systems and IoT

Session Chairs: Chairs: Chair- Dr. Asitha Bandaranayake, Co-chair- Dr. Preethi Harris

Multi-armed Bandit Based Approach for Performance Enhancement of Sequential Search Methods

Kusal B Tennakoon, Udari Madushani, Sanjeeva Maithripala, Janaka Wijayakulasooriya

Key Independent Face Clustering in the Encrypted Domain

Kannan Karthik, Harshit Balaraman

Identifying the Optimal Set of Attributes That Impose High Impact on the End Results of a Cricket Match Using Machine Learning

Somaskandhan Pranavan, Gihan Wijesinghe, Leshan Wijegunawardana, Asitha U Bandaranayake, Sampath Deegalla

Autotuning Multi-Tiered Applications for Performance

Vimuth Fernando, Sanath Jayasena

Dynamic Clustering for Event Detection and Anomaly Identification in Video Surveillance

Anuththara Rupasinghe, Devni Padmasiri, Malini Senanayake, Gunawath Mudiyansele, Roshan Indika Godaliyadda, Mervyn Parakrama Ekanayake, Janaka Wijayakulasooriya

Session 04 - Track D (Room D)

Saturday 16th December, 11:30 – 01.00

RA - Robotics, Control and Automation – Advances in Robot Control

Session Chairs: Chairs: Chair- Dr. Sanjeeva Maithripala, Co-chair- Dr. Parakrama Ekanayake

Intrinsic PID Controller for a Segway Type Mobile Robot

Isuru Basnayake; Udari Madushani; Sanjeeva Maithripala

Feedback Regularization Based PD Controller for a Planar Three-link Biped Robot

Lasitha Weerakoon; Sanjeeva Maithripala; Jordan Berg

Reinforcement Learning for Optimal Path Length of Nanobots Using Dynamic Programming

Amruta Sanjay Lambe

Yaw and Pitch Control of a Twin Rotor MIMO System

Jagannath Wijekoon; Yasitha Liyanage; Shirantha Welikala; Lilantha Samaranyake

Keynote Session 5

Saturday 16th December, 2:00 – 2.45

Prof. Gamini Dissanayake

University of Technology Sydney, Australia.

“Field Robotics – From Research to Applications”

Session 05

Session 05 - Track A (Room A)

Saturday 16th December, 02.45 – 04.30

PHV - Power, Energy and High Voltage Engineering – High Voltage Engineering

Session Chairs: Chair: Prof. Manjula Fernando, Co-chair – Prof. C. C. Reddy

Invited Paper - Comparative Study of Famous Conductivity Models for Low Density Polyethylene

Avnish Kumar Upadhyay and C. C. Reddy

Influence of Scintillations on the Surface Degradation of Polymeric Insulators

Alok Ranjan Verma; Subba Reddy

Arc Extinguishment for DC Circuit Breaker by PPTC Device

Yong-Jung Kim; Hyosung Kim

Application of SFRA Techniques to Discriminate Short Circuit Faults of Transformer Winding

Thanuja Aravinda; Kapila Bandara; Gawasinghe Jayantha; Sarath Kumara; Ramesh Fernando

Comparison of Coconut/Sesame/Castor Oils and Their Blends for Transformer Insulation

Sarath Kumara; Ramesh Fernando; Chandrakantha Kalpage

Possibility of Blending Sesame Oil with Field Aged Mineral Oil for Transformer Applications

Dushantha Bandara; Sarath Kumara; Ramesh Fernando; Chandrakantha Kalpage

Session 05 - Track B (Room B)

Saturday 16th December, 02.45 – 04.30

CI - Communication and Information

Session Chairs: Chair: Dr. Jeevani Jayasinghe, Co-chair: Dr. Amila Sampath

Burst Switching using Variable Optical Splitter based Switches with Wavelength Conversion

Krishanthmohan Ratnam, Roshan G. Ragel, and Dinuka C. A. Wehella

50-km Transmission Experiment of Phase-shift Method-based Carrier-emitted Optical SSB Signal Without Dispersion Compensation

K. I. Amila Sampath, Masaki Shiraiwa, Yoshinari Awaji, Joji Maeda, Katsumi Takano

Design of a Multi-Section Coupled Line Coupler Based on Substrate Integrated Coaxial Lines

H.M.P.B. Ranasinghe, A.U.A.W. Gunawardena

Local Optimization of a Sierpinski Carpet Fractal Antenna

Slawomir Koziel, Jeevani W. Jayasinghe, Omar Saraereh, Disala Uduwawala

Session 05 - Track C (Room C)

Saturday 16th December, 02.45 – 04.30

BMS - Big Data, Machine learning, Smart Systems and IoT

Session Chairs: Chairs: Chair- Prof. Chanaka Edirisinghe, Co-chair- Dr. Suneth Namal Karunarathna

Computational Personality Traits Assessment with Machine Learning, a Review

Kalani Ilmini, Shantha Fernando

Vehicular Data Acquisition and Analytics System for Real-Time Driver Behavior Monitoring and Anomaly Detection

Bhashinee Nirmali, Shanika Wickramasinghe, Thivanka Munasinghe, C. R.J Amalraj, Herath Mudiyansele Nelanga Dilum Bandara

An Efficient Query Platform for Streaming and Dynamic Natural Graphs

Yasanka Horawalavithana, Milindu Kumarage, Nalin Ranasinghe

Phrase-level English to Sinhala Machine Translation with Multi-Agent Approach

Budditha Hettige, Asoka S. Karunananda, G Rzevski

Post-Earthquake Disaster Awareness to Emergency Task Force Using Crowd sourced Data

Preethi Harris, Anitha J

Solving Large Nonconvex Separable Quadratic Programs Under Surrogation

Chanaka Edirisinghe, Jaehwan Jeong

Session 05 - Track D (Room D)

Saturday 16th December, 02.45 – 04.30

RA - Robotics, Control and Automation – Mobile robotics and applications

Session Chairs: Chairs: Chair- Prof. Gamini Dissanayake, Co-chair- Dr. Lilantha Samaranyake

Human Attention Estimation by a Domestic Service Robot Using Upper Body Skeletal Information

Chapa Sirithunge Hewa Pelendage; Buddhika Prabhath Jayasekara;
Dedduwa Pathiranage Chandima

Sensorless Terrain Estimation for a Wheeled Mobile Robot

Senadiri Dummunnage Arunya P. Senadheera; A. M. Harsha S. Abeykoon

Orthogonally Positioned Tracked Crawler Robot for Vertically Aligned Mooring Chain Climbing

Mahesh Dissanayake; MD Omar Howlader; Tariq Sattar; Tat-Hean Gan; Ivan Pinson

Development of an Interactive Service Robot Arm for Object Manipulation

Buddhika Prabhath Jayasekara; M. M. Sachi Edirisinghe; H. M. Ravindu Tharaka

Bandara; Padma Balasooriya

Session 05 - Track E (Room E)

Saturday 16th December, 02.45 – 04.30

ISP - Image and Signal Processing –Signal and Image Processing for Bio-Medicine

Session Chairs: Chairs: Chair - Dr. Lochandaka Ranathunga, Co-chair - Dr. Maheshi Dissanayake

Simultaneous Localization and Classification of Acute Lymphoblastic Leukemic Cells in Peripheral Blood Smears Using a Deep Convolutional Network with Average Pooling Layer

Arna Ghosh, Satyarth Singh, Debdoot Sheet

A Retinal Image Enhancement Technique for Blood Vessel Segmentation Algorithm

Randitha Bandara, Manjula P Giragama

Super-Efficient Spatially Adaptive Contrast Enhancement Algorithm for Superficial Vein Imaging

Randitha Bandara, Saneera Hemantha Kulathilake, Manjula P Giragama
