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The 10th Joint Workshop

On

Natural Language Processing

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The 10th Joint Workshop on Natural Language and Speech Processing

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Title: Weighted Finite State Transducer based Spelling Checker for Myanmar Language (Burmese)

Dr. Ye Kyaw Thu

LST Lab., NECTEC, Thailand



Dr. Ye Kyaw Thu

Abstract

Spell-checking is perhaps one of the oldest most researched application in the field of language technology, starting from the mid 20th century (Damerau, 1964). The task of spell-checking can be divided into two categories: isolated non-word errors and context-based real-word errors (Kukich, 1992). In this talk, I will discuss relating to spelling mistakes of Myanmar language (Burmese). I will also introduce how to build a spell-checker for isolated non-word errors based on weighted finite state transducers (WFST).

Biography

Ye Kyaw Thu (Ye-san) is a Visiting Professor of Language & Semantic Technology Research Team (LST), Artificial Intelligence Research Unit (AINRU), National Electronic & Computer Technology Center (NECTEC), Thailand and Head of NLP Research Lab., University of Technology Yatanarpon Cyber City (UTYCC), Pyin Oo Lwin, Myanmar. He is also a founder of Language Understanding Lab., Myanmar and a Visiting Researcher of Language and Speech Science Research Lab., Waseda University, Japan. He is actively co-supervising/supervising undergrad, masters' and doctoral students of several universities including MTU, UCSM, UCSY, UTYCC and YTU. Previously, he was a Researcher in the artificial intelligence (AI) Lab. at Okayama Prefectural University (OPU), Japan (2016-2018), a Researcher at the Multilingual Translation Lab., Advanced Speech Translation Research and Development Promotion Center, National Institute of Information and Communications Technology (NICT), Japan (2012-2016) and a Research Associate at Waseda University, Japan (2009-2012). He received his B.Sc. in Physics from Dagon University, Myanmar, M.Sc. and D.Sc. both in global

information and telecommunication studies from Waseda University, Japan. His research interests lie in the fields of AI, natural language processing (NLP) and human-computer interaction (HCI). His experience includes research and development of text input methods, corpus building, statistical machine translation (SMT), automatic speech recognition (ASR) and text to speech (TTS) engines for his native language Myanmar. He is currently, working on NLP R&D for languages of Myanmar, robot language acquisition, sign language processing and ICT in primary education.

Title: Improved Word Alignment System for Myanmar-English Machine Translation

Nway Nway Han

University of Computer Studies, Mandalay,
Myanmar



Nway Nway Han

Abstract

In this section I will be talking about the word alignments tasks which is the preprocessing task of Statistical Machine Translation system (SMT). It is identifying the translation relationships between the words in the parallel sentences. Also I will talk about how to improved the word alignments process which is also enhanced the quality of the translation.

Biography

She received her B.C.Sc (Hons:) and M.C.Sc (Credit) degrees from University of Computer Studies, Mandalay, Myanmar in 2001 and 2003. Currently, she is a candidate for the degree of Ph.D of Information Technology in University of Computer Studies, Mandalay in Myanmar. She is doing research at Artificial Intelligence lab of UCSM since June, 2016. Her Ph.D thesis was on " Word Alignment" which is essential for Statistical Machine Translation and she is still doing research on Word Alignment to improve the translation quality. Her other research interests include Machine Translation and Speech Processing.

Title: Statistical Parametric Speech Synthesis for Myanmar Language

Aye Mya Hlaing

University of Computer Studies, Yangon,
Myanmar



Aye Mya Hlaing

Abstract

Statistical parametric speech synthesis (SPSS) approaches have been applied to Myanmar language for promoting the naturalness of Myanmar Text-to-Speech (TTS) system in Natural Language Processing Lab., UCSY. Conventional Hidden Markov Model (HMM) based SPSS with contextual linguistic features is modelled for Myanmar language and used as the baseline system. Recently, neural network based modelling techniques such as Deep Neural Network (DNN), Long Short-Term Memory Recurrent Neural Network (LSTM-RNN) have been applied to acoustic modelling of SPSS for Myanmar language. A large Myanmar pronunciation dictionary and phoneme features file have been built and used in Festival for extracting contextual linguistic labels. A question set for Myanmar language which is a language dependent requirement, is proposed for extracting linguistic features used in acoustic modelling of neural network based SPSS. Both objective and subjective results show that a hybrid of DNN and LSTM-RNN based Myanmar speech synthesis system achieved better performance than DNN and HMM based systems. A demonstration of Myanmar TTS system with different acoustic modelling approaches such as HMM, DNN, and LSTM-RNN will be done in this workshop.

Biography

Aye Mya Hlaing is a Ph.D candidate and a member of Natural Language Processing Lab., University of Computer Studies, Yangon, Myanmar. Currently, she is doing research on Myanmar speech synthesis. She got M.C.Sc. (Credit) degree in 2009 from University of Computer Studies, Mandalay, Myanmar. She participated in doing research of Myanmar Automatic Speech Recognition System, Myanmar-English-Myanmar Dictionary, ASEAN

Machine Translation System and Myanmar Character Recognition System. Her research interests are Speech Processing, Natural Language Processing, and Machine Learning.

Title: Named-entity Recognition For Myanmar Language By Using Bi-LSTM-CRF with Word and Character Representation

Hlaing Myat Nwe

NLP-Lab, UTYCC, Myanmar



Hlaing Myat Nwe

Abstract

Named-entity recognition (NER) is one of information extraction tasks to classify named entity mentioned in unstructured text into pre-defined categories such as person names, organizations, locations, time expressions, quantities, monetary values, percentages, etc. NER tagging is still limited for Myanmar language that has the lack of boundary indicator for words, phrases and sentences. In this paper, we applied recurrent neural network (RNN) architecture such as Long Short-Term Memory (LSTM) with word and character level representation to solve this problem. Firstly, we prepared data by tokenizing a word and manually annotated Myanmar NER corpus. We defined 23 types of NE tags for manual annotation and used the BIOES (Beginning, Inside, Outside, End, Single) tag scheme to annotate named entities. For corpus building, we used medical domain data and word segmented data that prepared by students from NLP class, University of Technology (Yatanarpon Cyber City), and myPOS corpus. We prepared Bi-LSTM for both word representation and character representation. And then, we also built a recurrent neural network combined with Conditional Random Field (CRF) to build NER recognition by learning the sequence of text and extracting the knowledge. The results of our model yielded accuracy, precision, recall, and F1 at 97%, 80%, 74% and 77% respectively.

Biography

She is a PhD candidate of University of Technology (Yatanarpon Cyber City), Pyin Oo Lwin, Myanmar. A native of Myanmar, she holds a master degree of Information Science and Technology, and a bachelor degree of Information Science and Technology from University of

Technology (Yatanarpon Cyber City), Myanmar. Her research interests include human-computer interaction, natural language processing and audio signal processing. She has been working to find efficient and user-friendly text input interfaces for Myanmar Sign Language. She is also a supervising lab members from NLP-Lab, UTYCC.

Title: Myanmar Text Summarization using Recurrent Neural Network

Prof. Khin Mar Soe

University of Computer Studies, Yangon,
Myanmar



Prof. Khin Mar Soe

Abstract

Text Summarization becomes a solution to the information overload problem and is useful for information retrieval and text classification. Users prefer to read the short and complete snippet of the whole article rather than the whole text to catch the key meaning. Therefore, it is important, for information provider, to offer audiences the short, accurate and meaningful information to the users instead of longer text which is tedious to read. In order to generate the extractive and generic summary from the editorial articles of Myanmar newspapers and journals, the training corpus is developed based on unsupervised learning method, KNN classifier. The testing phase is implemented by using recurrent neural network with prominent features of each sentence.

Biography

Dr. Khin Mar Soe received Ph.D (Information Technology) degree from University of Computer Studies, Yangon in 2005. She is working as a professor and in-charge of Natural Language Processing lab. She supervises doctoral and master theses in Myanmar Word Segmentation and Part-of-Speech Tagging, Machine translation, Myanmar Name Entity Recognition, Myanmar Text Summarization, Myanmar Dialogue Recognition, Intent Analysis and Sentiment Analysis.

Aung Sett Paing

University of Computer Studies, Yangon,
Myanmar



Aung Sett Paing

Biography

Aung Sett Paing obtained the B.C.Sc in Computer Science from University of Computer Studies, Yangon (UCSY) in 2018. Besides, he finished the coursework of master degree in 2019 and he is currently doing his master thesis named "Myanmar Text Summarization" in the research area of Natural Language Processing. Furthermore, he had participated in some competitions such as programming contest and data science exploration throughout his academic years. He had also joined Telenor Myanmar and Huawei Myanmar as the student intern. At the moment, he is working as NLP researcher in UMG Company Ltd since 2019. He is interested in the research areas namely natural language processing, machine learning, data mining and data science. He has been conducting researches and projects related with those fields.

The 8th Joint Workshop

On

Image Processing and GIS Application

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The 8th Joint Workshop on GIS

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**Title: Rapid method of developing historical
flood mapping for response operations and
community planning**

Dr. Kyaw Zaya Htun



Dr. Kyaw Zaya Htun

*Yangon Technological University,
Yangon*

Biography

He is working as a Director at Remote Sensing and GIS Research Center, Yangon Technological University, Yangon, Myanmar. He has received a First Master Degree from University of Computer Studies, Yangon in Dec, 2000 and Second Master in Remote Sensing & Geographic Information Systems (GIS) from Asian Institute of Technology, Thailand in 2006 and Ph.D in field of Remote Sensing & GIS from Mandalay Technological University, Myanmar. He has participate in Remote Sensing & GIS related projects together with local organizations (Mandalay City Development Committee, Department of Archaeology, Department of Relief and Resettlement, etc.) and international organization (ADPC, UN Habitat, IOM, SWECO and UNICEF) for more than ten years. In this role, he worked on many different projects covering all aspects of GIS. His primary focus was creating and maintaining spatial database for spatial data, hazard and risk assessment mapping for disaster prone area and also providing capacity building of on-job training and developing curriculum for trainer of trainer.

Title : Developing the Flood Alarm System for Disaster Mitigation

U Win Ko Ko

YTU



*U Win Ko Ko
Yangon Technology University*



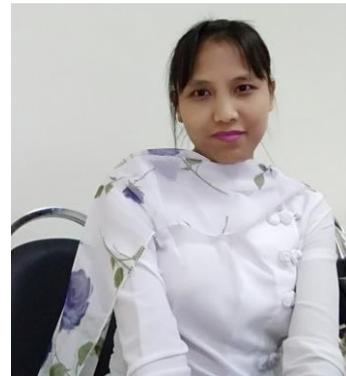
Phyto Pa Pa Tun is currently working towards the Ph.D. Degree at the University of Computer Studies, Yangon, Myanmar. She received B.C.Sc (Hons:) degree and M.C.Sc degree from Computer University, Magway, Myanmar in 2007 and 2011, respectively. Her research interests include Image Processing, Geographic Information System and Spatial Database. She is a student member of IEEE.



Thu Zar Hsan is currently working towards the Ph.D. Degree at Geographic Information System Laboratory, University of Computer Studies, Yangon, Myanmar. She received the B.C.Tech, B.C.Tech(Hons:), and M.C.Tech degrees from the University of Computer Studies, Mandalay, Myanmar in 2004, 2005 and 2009, respectively. She is a student member of IEEE.

Title: Landslide Preventing in Myanmar

Prof. Thin Lai Lai Thein



***Prof. Thin Lai Lai Thein**
University of Computer Studies
Yangon, Myanmar*

Biography

Thin Lai Lai Thein received the PhD (IT) degree from University of Computer Studies, Yangon, Myanmar since 2007. She is working as a professor at UCSY and Leader of Image Processing Lab. She is interested in Pattern Recognition, Image processing, 3D reconstruction, and Geographic Information System (GIS).



Chaw Chaw Khaing is currently working towards the Ph.D. Degree at Geographic Information System Laboratory, University of Computer Studies, Yangon, Myanmar. She received the M.Sc. (Engineering Physics)degrees from the Yangon University in 2001 and M.A.Sc. (Engineering Computer) from University of Computer Studies, Yangon, Myanmar in 2003. She is a student member of IEEE.

**Title: Estimating Damaged Volumes of 3D Model of
Historic Pagodas in Bagan after Earthquake**

Thida Aung
GIS, Lab



Thida Aung
University of Computer Studies
Yangon, Myanmar

Thida Aung is currently working towards the Ph.D. Degree at Geographic Information System Laboratory, University of Computer Studies, Yangon, Myanmar. She received B.C.Sc (Hons:) and M.C.Sc degree from the University of Computer Studies, Yangon, Myanmar in 2007 and 2009, respectively. She is a tutor of University of Technology (Yatanarpon Cyber City), Pyin Oo Lwin. Her research interests include Digital Image Processing, Geographical Information System. She is a student member of IEEE.



She is currently working towards the Ph.D. Degree at the University of Computer Studies, Yangon, Myanmar. She received B.C.Tech degree from the Computer University (Magway), Myanmar in 2009, B.C.Tech (Hons:) degree from the Computer University (Pyay) in 2010 and M.C.Tech (Credit) degree from the Computer University (Magway), Myanmar in 2012. Her research interests include Digital Image Processing, Geographical Information System. She is a student member of IEEE.

Title: ICT Application on Smart Tourism supporting in Ancient Culture Heritage Region

Prof. Myint Myint Sein

Abstract

Tourists are travel around the world with different purposes. It is important to support the visitors for selecting a Tourism destination area which encompasses all necessary amenities such as accommodation, restaurant, famous place, entertainment and healthcare center. It is still difficult to plan the trip for arranging the accommodation and selecting the interested places in their limited time and budget. They also complicated to search the place and route in unfamiliar region. Some are missing the route to reach the desired place.

We mainly focus to improve the transportation, communication, implementation and trip planning in heritage region. The detail targets are:

- 1) To develop a mobile application of location based services for local visitors and tourists.
- 2) To improve the trip planning within the constraint times.
- 3) To implement the histories of cultural site by big data open platform.
- 4) To investigate the number of tourists visit to the sites in every day.

Therefore, we have designed the ICT application of tourism support system to improve the convenient and smart visiting for tourist and local people in communities with ICT technologies. For test area, ancient culture heritage region is selected in particularly. Developed location service application will provide both tourists and local people to easily search for their desirable location and information to get the destination effectively and efficiently. The data collection work will be performed by the respective project members (Myanmar, Thailand, Cambodia).



Prof. Myint Myint Sein
University of Computer Studies
Yangon, Myanmar

Biography

Myint Myint Sein received the Ph.D in Electrical Engineering from the Graduate School of Engineering, Osaka City University, Osaka, Japan in 2001. She joined the Kehanna Human Info Communication Research Center, Kyoto, Japan as a post doctor researcher, research fellow. She is presently serving as a Head of Geographical Information System Lab., University of Computer Studies, Yangon, Myanmar since 2005. Her research interests are Pattern Recognition, Image Processing, Soft computing, 3D reconstruction, 3D Image Retrieval, GIS and Android Applications. She is a member of IEEE.

Project Members



Wai Mar Hlaing is currently working towards the Ph.D. Degree at the University of Computer Studies, Yangon, Myanmar. She received B.C.Sc (Hons:) degree from University of Computer Studies, Yangon, Myanmar in 2006 and M.C.Sc degree from University of Computer Studies, Yangon, Myanmar in 2009. She is a student member of IEEE.



Khaing Suu Htet received B.C.Tech (Hons) Degree from University of Computer Studies, Mandalay on 2008. She also finished M.C.Tech Degree from same university in 2010. She joined as Tutor in University of Computer Studies, Monywa on 2010. And currently she is working as Assistant Lecturer in University of Computer Studies Yangon. She has been studying to join Ph.D program in GIS research lab.



Chit Kyin Htoo is currently working towards the Ph.D. Degree at the University of Computer Studies, Yangon, Myanmar. She received B.C.Sc degree and M.C.Sc degree from University of Computer Studies, Pakokku, Myanmar in 2006 and 2009, respectively. She is a student member of IEEE.

Achievements (2016~2019)

1. K-zin Phyo, Myint Myint Sein, Thae Maung Maung and Myat Thiri Khine, "Analysing and Surveying the Damaged Bagan Pagodas", in Proceedings of International Conference (ICSE-2016), Dec 10-11, YTU, Myanmar.
2. K.Phyo and Myint Myint Sein, "Poster: Optimal Path Finding for Emergency Cases on Android," 14th Annual International Conference on Mobile Systems, Applications, and Services, Singapore, May, 2016.
3. K.Phyo and Myint Myint Sein, "Optimal Route Finding for Weak Infrastructure Road Network," in the proceedings of the 10th International Conference on Genetic and Evolutionary Computing ,ICGEC-2016-IS07-05, Springer.
4. K.Phyo and M.M.Sein, "Optimal Route Finding to Support Fire Emergency Service," in Proceedings of 14th International Conference on Computer Application, (ICCA, 2016), pp. 58-62.
5. Myat Thiri Khine, Su Nandar Aung and Myint Myint Sein, "Geo-textual Index Structure for Spatial Keyword Query with Myanmar Language", in Proceedings of the 14th International Conference on Computer Applications (ICCA2016), Yangon, Myanmar, pp. 47-51, February 2016.
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7. Myat Thiri Khine, Myint Myint Sein, "Location and Transportation Services for Yangon Region", The Seventh International Conference on Science and Engineering 2016 (ICSE 2016), Yangon, Myanmar.
8. Myat Thiri Khine and Myint Myint Sein, "Guiding Location and Transportation Services for Yangon Metropolitan Area", ASEAN IVO Forum 2016, Nov-24,2016, Pan Pacific Hanoi, Vietnam.
9. K-zin Phyo, Myint Myint Sein, Thae Maung Maung and Myat Thiri Khine, "Analysing and Surveying the Damaged Bagan Pagodas", The Seventh International Conference on Science and Engineering 2016 (ICSE 2016), Yangon, Myanmar.
10. Thida Aung, Myint Myint Sein, K-zin Phyo, Myat Thiri Khine and Thae Maung Maung, "Analyzing Damage region of 3D Historic Pagodas Images after the Earthquake", ASEAN IVO Forum 2016, Nov-24,2016, Pan Pacific Hanoi, Vietnam.
11. Thida Aung and Myint Myint Sein, "Analysing the Disaster", The 10th International Conference on Genetic and Evolutionary Computing (ICGEC 2016), 7th – 9th November, 2016, Fuzhou, China.
12. Thida Aung and Myint Myint Sein, "Change Detection of the Building areas in Urban Regions", in Proceedings of the 14th International Conference on Computer Applications (ICCA2016), pp. 124-130, February 2016, Yangon.
13. Phyo Pa Pa Tun and Myint Myint Sein, "Flood Alarm System for Mone Chung Dam in Myanmar", ASEAN IVO Forum 2016, Nov-24,2016, Pan Pacific Hanoi, Vietnam.
14. Naw Jacklin Nyunt, "Generating the Vicinity Query Algorithm Based-on k-order Network Voronoi Region", ASEAN IVO, Yangon, Myanmar January 2016.

15. Su Nandar Aung, " Finding Nearest Services for Emergency Cases", ASEAN IVO, Yangon, Myanmar January 2016.
16. Kay Zin Phy, " Optimal Route Finding to support Fire Emergency Service", ASEAN IVO, Yangon, Myanmar January 2016.
17. L.L.Phway, " An Effective LBS Application for Natural Disaster", Workshop on Responding Natural Disaster", ASEAN IVO, Yangon, Myanmar January 2016.
18. Thin Lai Lai Thein, " Detecting the Effect of Natural Disasters on Land Area in Myanmar", ASEAN IVO, Yangon, Myanmar January 2016.
19. Myat Thuza, " Supporting Bus Information for Yangon Region", ASEAN IVO, Yangon, Myanmar January 22, 2016.
20. Khant K,K,T, " Towards Automatic 3D Building Reconstruction in Urban Environment ", ASEAN IVO, Yangon, Myanmar January 22, 2016.
21. K.Phyo and Myint Myint Sein, "Effective Emergency Response System", in Proceedings of the 15th International Conference on Computer Applications (ICCA2017), February 2017, Yangon.
22. Myat Thiri Khine and Myint Myint Sein, "Geo-Spatial Index Structure for Myanmar Keyword Query", in Proceedings of the 15th International Conference on Computer Applications (ICCA2017), Yangon, Myanmar, February 2017.
23. Thida Aung and Myint Myint Sein, "Detection the Urban Changing Areas of Yangon City Using Landsat Time series Images", in Proceedings of the 15th International Conference on Computer Applications (ICCA2017), February 2017, Yangon.
24. Wai Mar Hlaing and Myint Myint Sein, "Search Space Reduction using K-means Clustering and Adjacency matrices for GIS Usage Information Retrieval", The Seventh International Conference on Science and Engineering 2016, (ICSE 2016), 10-11 December, 2016.
25. Wai Mar Hlaing and Myint Myint Sein, "Removing Unnecessary Map-based Data for Search Space Reduction", International Conference on Computer Applications (ICCA 2017), 16-17 February, 2017.
26. Wai Mar Hlaing and Myint Myint Sein, "K-means Nearest Point Search Algorithm and Heuristic Search for Transportation", 2018 IEEE 7th Global Conference on Consumer Electronics held in Nara, Japan, ISBN: 978-1-5386-6310-3 ,pp. 779-780, 9-12 October, 2018.
27. Wai Mar Hlaing, Shi-Jian Liu, Jeng-Shyaung Pan, "A Novel Solution for Simultaneously Finding the Shortest and Possible paths in Complex Network", Journal of Internet Technology, Vol.20, No.3, May-2019.
28. Phyto Pa Pa Tun and Myint Myint Sein, "Flood Prediction System for Middle Region of Myanmar", 2018 IEEE 7th Global Conference on Consumer Electronics (GCCE 2018), October 9-12, Nara, Japan.

29. Chit Kyin Htoo and Myint Myint Sein, " Enhanced Texture Representation for Moving Targets Classification Using Co-occurrence", Proceedings of the Multi-disciplinary Trends in Artificial Intelligence, 2018.
30. Phyo Pa Pa Tun and Myint Myint Sein, "Flood Prediction System by using Markov Chain", Proceeding of International Conference on Future Computer and Communication (ICFCC) 2019, Feb. 27th ~ March 1, 2019, Yangon, Myanmar.
31. Myint Myint Sein, Myat Thiri Khine and Wai Mar Lwin, " Trip Planning Query Based on Partial Sequenced Route Algorithm", 2019 IEEE 8th Global Conference on Consumer Electronics (GCCE 2019), October 15-18, Osaka, Japan, (Best Paper Award).
32. Thida Aung, Myint Myint Sein, "Estimating Damaged Volumes of Historic Pagodas in Bagan after Earthquake using 3D Hough Transform", International Journal on Advanced Science, Engineering and Information Technology (IJASEIT), Volume 10, No.1, February, 2020.

The 3rd Joint Workshop

On

Cyber Security and Digital Forensics

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The 3rd Joint Workshop on Cyber Security and Digital Forensics

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Title: Cybersecurity as a Business Enabler

Samson Paing Minn

Abstract

The business landscape has changed in recent years, Cyber security can be more than just an overhead cost. It can actually be the enabler by which your business grows and prospers.



Samson Paing Minn

Biography

Ko Samson Paing Minn was graduated from the University of Northumbria in Newcastle Upon Tyne with major in Business Information Systems and he is also holding the Post Graduate Certificate in Public Policy Economics from the Prestigious University of Oxford. Being the Head of Cyber Security and Blockchain, Samson is developing an independent opinion on the business' management of risk, challenging areas of mitigation or control weaknesses, proactively identifying and coordinating assurance activities based on the current and future risk profile of the business and contributing the KBZ Group's vision to be the best bank for customers .Delivering of proactive support, constructive challenge to the business and enabling sustainable growth for KBZ Banking Group. Currently taking care of Security Operation Center, VAPT team and ICT Compliance/Audit teams in the bank. Aiming to shape up the security awareness for 33 million KBZ customers by 2022.

While he was double heading as General Manager for the Domestic Remittance Department, he had managed trillions (MMK) of value remittances monthly. Leads and effectively executes the Value Centre's business plans for structuring highly relevant and innovative financial solutions to deepen account adoption and to reach more customers at a lower cost, in line with the overall bank's strategy of driving nation-wide financial inclusion through Digital channels. Plans, manages and drives effective and efficient delivery of Technology initiatives to assist the Value Centre in achieving exceptional business results.

Title: A framework for Metamorphic Malware Detection

Dr. Abhishek Vaish



Abhishek Vaish

Abstract

Metamorphic malwares detection is the most challenging problems in computer science. The basic signature-based detection cannot be used in metamorphic malwares as these malwares change their shapes all the time. These malwares use the code obfuscation to change their shape which makes them difficult to detect with signature-based detection algorithms and heuristic algorithms. This is the main reason; antivirus firms cannot claim 100 percent malware detection. When a malware is encrypted, static analysis does not give the desired detection so next obvious approach is going for dynamic analysis. but challenges are to detect the changing shapes of malware. In this paper we give approach to analyze changing nature of metamorphic malwares and detect metamorphic malwares

Biography

Dr. Abhishek Vaish(MS(Gold Medallist) Phd-IIIT-A) is an permanent faculty member at Indian Institute of Information technology, Allahabad. He is working with IIIT-A since 2007 with high degree of commitment and excellent performance. Prior to IIIT-Allahabad he was working as an Consultant with Wipro, ltd Bangalore. Recently he has been nominated for Marquis who's who.

He has served the Government of India on diplomatic mission as the Head of Science and Technology wing of the Embassy of India Moscow. He was instrumental in devising out the first ever program to promote Innovation Eco-System at the Bilateral Level named as Indo-Russia Bridge to Innovation Program. Presently, he is mentoring the technical institute to develop Innovation Eco-System.

He is recently been selected as jury member for 2nd Innompic games held at University of Kuala Lumpur, Malaysia.

Major Achievements in the field of Cyber Security

- Published more than 50 scientific papers in International Journals, Conference plus Book Chapters.
- Conferred as an Academic Advocate for Information Systems Audit and Control Association (ISACA), USA.
- Supervised 4 Ph.D. candidates and 100+ Masters Students.
- Handled Cyber Security Projects for Corporate Client while Served as a Consultant at Wipro ltd. Major domain of projects include web application testing, wireless penetration testing, Implementation of Information Security Management system for Bharti Airtel for PAN India.
- Ex- Chief Information Security Officer of Indian Institute of Information Technology, Allahabad.
- Ex- Cyber Security officer of Embassy of India, Moscow.
- Technical Advisor for Cyber security Issues to M.H Alshaya, Kuwait
- Bilateral foreign funding for scientific project between the Government of India and Russia, Indo- Russian Project on development of Neuron like detection filters Image Identification. Support of Department of Science and Technology & Russian Foundation of Basic research, Indo- Russian Project on development of Neuron Disaster Management for large scale wireless sensor network Support of Department of Science and Technology Funded. Indo- Russian Projects on Development of logic programming approach to intelligent monitoring of anomalous human activities.
- Creator of Educational Programme of Cyber Security at Indian Institute of Information Technology, Allahabad, Moscow Institute of Physics and Technology, Moscow and University of Computer Studies, Yangon, Myanmar, Sampoerna University, Jakarta and Dhofar University, Salalah, Oman.
- Setting up of dedicated Cyber Security Lab for University of Computer studies, Yangon, Myanmar.

Dr. Abhishek Vaish is an international travel and has made international academic footprints. Some of the Universities which he is working closely are:

1. State University of New York, Buffalo,
2. Moscow Institute of Physics and Technology, Moscow
3. University of Abertay, Dundee, Scotland
4. University of Computer Studies, Yangon

Title: CSIRT-Incident Handling for Flash Delivery System

Dr. Mie Mie Su Thwin



Mie Mie Su Thwin

Abstract

This workshop introduces participants to Incident Handling Process when an Incident occurs. In this workshop, we are going to demonstrate the Computer Security Incident Response Team, CSIRT Incident Handling Process and as a case study, we will investigate on “Flash Delivery System”, victim company. We, UCSY, Cyber Security and Digital Forensics (CSF) Ph.D. and Master Students are going to form as a “UCSY -CSF -CSIRT Incident Handling Team”. And Incident Data will be analyzed and investigated in a representative manner to identify the main source of the Incident. Team will discuss observations and report the incident to the victim company. And take actions to eradicate an incident and maintain the system. To prevent similar incident, cyber security awareness training will be delivered as well. On-Site Incident Handling, Pen-Testing, Forensics Investigation and Data Analysis, Malware Analysis, Remediation, Maintenance, Incident Reporting and Awareness Training are involved in this scenario.

Biography

Mie Mie Su Thwin is the First Batch Ph.D. Student of University of Computer Studies, Yangon and she got her Ph.D. Degree of Computer Science in April, 2004.

Since 1996, when she was doing her Master Thesis in Information Science, she joined as a part time Tutor and lectured Software Development Methodologies and Information Science Subjects to Diploma and Bachelor Classes of Institute of Computer Science and Technology. Now, she has the working experience of 23 years. In June 2017, she has been promoted to Professor of University of Computer Studies, Yangon.

She had been attached to mmCERT (Myanmar Computer Emergency Response Team) for about 6 and a half years and now, she worked back to her Mother Unit, University of Computer Studies, Yangon. Her main interest goes to Cyber Security Research and Human Resource Development in Myanmar. She is managing Cyber Security Research Lab of UCSY as well as

Specialized Cyber Security and Digital Forensics (CSF) Master Class. And she is also lecturing and supervising Ph.D. Students and Master Students of UCSY in Cyber Security and Digital Forensics Field.

She is also the Certified Instructor of EC-Council Certified Ethical Hacker (CEH) Course. She is doing knowledge, experience and expertise sharing to the students of Computer Universities, Technological Universities, people in IT Field and Government Staffs of Ministries of Myanmar. And she is actively and successfully organized and participated in the Cyber Security Activities of Myanmar such as International and National Meetings, Workshops, Panel Discussions, Forums, CTF Contests and Incident Drills. Her research interests include Internet of Things Security, Big Data Analytics for Security, Mobile Forensics, Computer Forensics, Applications Security, Cloud Forensics, Layer wise Attacks, Database Forensics and so on. And she is now doing Research with her students in Digital Forensics, Android Forensics, Computer Forensics, Social Media Forensics, Big Data Analytics for Security, Malware Analysis, Attack Classification, Frameworks for Cyber Crime Investigations, e-Government Application Security and so on.

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Members of UCSY-CSF-CSIRT



Naing Linn Htun

Naing Linn Htun is a Ph.D. Candidate (Research) in Cyber Security Research Lab. at University of Computer Studies, Yangon (UCSY), Myanmar. He got both of D.C.Sc and M.I.Sc Degree from Computer University, Maubin. He is very interested in Cyber Security and Digital Forensics.



Tin Maung Maung

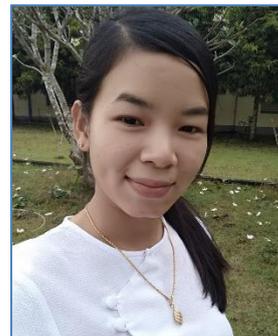
Tin Maung Maung is a Ph.D. Candidate (Research) in Cyber Security Research Lab. at University of Computer Studies, Yangon (UCSY), Myanmar. He studied Bachelor of Computer Science at the Defence Services Academy (DSA) from 2000 to 2003 and he has served as a Major at Myanmar Air Force. From 2006 to 2009, he continued his further studies in Master of Computer Science at University of Computer Studies, Yangon (UCSY).



Su Su Win
2Ph.D. 10
(Research Only)



Chaw Su Htwe
13Ph.D- 10



Yee Mon Thant
13Ph.D- 11



Ye Myint Thu
CSF - 7
1st Batch



Htet Naing Shein
CSF - 20
1st Batch



Kaung Htet Tun
CSF - 48
1st Batch



Nyein Chan Su Lwin
CSF - 34
1st Batch



Hnin Yu Zaw
CSF - 5
1st Batch



Phwe Phwe
CSF - 39
1st Batch



Wai Lin Tun
CSF - 30
2nd Batch



Htoi Lu Aung
CSF - 2
2nd Batch



Khin Hnin Mar
CSF - 31
2nd Batch



Yamin Shwe Zin
CSF – 10
2nd Batch



Phyu Phyu Soe
CSF – 8
2nd Batch



Thin Myat Khine
CSF – 6
2nd Batch



Aye Aye Mar
CSF – 3
2nd Batch