

Tentative Program : iSAI-NLP-AIoT 2023 (Last Update : 24 November 2023)

Date	27th November 2023		
Time	Kamonthip 3	Duangkamol	Kamolrudi
8.00-9.00	Registration		
9.00-9.30	Opening Ceremony		
9.30-10.30	<p>Title : <i>"Space Informatics : Toward The Sustainable Space Development"</i></p> <p>Speaker : <i>Prof. Dr. Shigeto Watanabe</i> <i>Space Information Center, Hokkaido Information University Graduate School of Science, Hokkaido University, Japan</i></p>		
10.30-10.45	break		
10.45-12.00	1A	1B	1C
12.00-13.00	Lunch		
13.00-17.00	<p>Workshop NLP by <i>Dr. Ye Kyaw Thu</i> <i>NECTEC</i></p> <p>Speaker : <i>Leong Wei Qi</i> <i>Senior Artificial Intelligence Engineer, AI Singapore</i></p>	<p>Tutorial : GPT Fine Tuning by Dr. Sumeth Yeanyong</p>	<p>Tutorial : Bot Noi Voice by Bot Noi Ltd.</p>

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Date	28th November 2023		
Time	Kamonthip 3	Duangkamol	Kamolrudi
8.00-9.00	Registration		
9.00-10.00	<p>Title : "AI Assisted Technology in Medical Industry"</p> <p>Speaker : Asst. Prof. Dr. Natsuda Kaothanthong Sirindhorn International Institute of Technology, Thammasat University, Thailand</p>		
10.00-10.15	Break		
10.15 - 12.00	4B	3C	7A
12.00-13.00	Lunch		
13.00-14.30	6A	<p>Tutorial : Prompt Engineering by Super AI Engineer Season 3 Gold Medal</p>	4C, 5A
14.30-14.45	Break		break
14.45-16.00	4A		2A
18.00-21.00	Banquet Party		

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Date	29th November 2023	
Time	Kornkamol	Keawkamol
8.00-9.00	Registration	
9.00-10.00	<p>Title : "Human Activity Recognition using Inbuilt Smartphone Sensors and Smart Learning Algorithms" Speaker : Asst. Prof. Dr. Badal Soni Department of Computer Science and Engineering National Institute of Technology Silchar, India</p>	
10.00-11.20	3B	3A
11.20- 12.00	Closing Ceremony	

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iSAI-NLP-AIoT- 1A :Natural Language Processing

Session Chair : Asst. Prof. Dr. Nongnuch Keatui

Date 27 November 2023, 10:45-12:00

Room : Kamonthip 3

- 1A.1 21- Investigation of Data Augmentation Techniques for Assamese-English Language Pair Machine Translation
Badal Soni and Candy Lalrempuii
- 1A.2 25- Simple2In1: A Simple Method for Fusing Two Sequences from Different Captioning Systems into One Sequence for a Small-scale Thai Dataset
Wuttinan Longjaroen, Thodsaporn Chay-Intr, Kotaro Funakoshi, Ananlada Chotimongkol and Sasiporn Usanavasin
- 1A.3 32- Sentiment Polarity Classification for Khmer
Sokheng Khim, Ye Kyaw Thu and Sethserey Sam
- 1A.4 33- Embedding Meets Frequency: Novel Approaches to Stopword Identification in Burmese
Ye Kyaw Thu and Thepchai Supnithi

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iSAI-NLP-AIoT- 1B :Natural Language Processing

Session Chair : Asst. Prof. Dr. Nipat Jongsawat

Date 27 November 2023, 10:45-12:00

Room : Duangkamol

- 1B.1 51- A Practical Technique for Thai-English Word Mapping Using Phonetic Rules: Person Name Matching Case Study
Tip-Aroon Kiawkaew, Natsuda Kaothanthong and Thanaruk Theeramunkong
- 1B.2 8- A Character-Level Restoration of Sukhothai Inscriptions Using the Mask Language Model
Sujitra Tongkhum and Sukree Sinthupinyo
- 1B.3 12- Spoof Detection using Voice Contribution on LFCC features and ResNet-34
Khaing Zar Mon, Kasorn Galajit, Candy Olivia Mawalim, Jessada Karnjana, Tsuyoshi Isshiki and Pakinee Aimmanee
- 1B.4 15- Enhancing Target Document Search in CopyCatch: A Focus on Thai and English document
Supon Klaithin and Sawit Kasuriya

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iSAI-NLP-AIoT- 1C :Natural Language Processing

Session Chair : Asst.Prof.Dr. Narumol Chumuang

Date 27 November 2023, 10:45-12:00

Room : Kamolrudi

- 1C.1 18- Thai Knowledge-Augmented Language Model Adaptation (ThaiKALA)
*Pavaris Ruangchutiphophan, Chantip Saetia, Thititorn Seneewong Na
Ayutthaya and Tawunrat Chalothorn*
- 1C.2 29- Machine Learning to Examine the Foraging Periods of Bees
Nattakan Thonhual
- 1C.3 10- NAS for Automated ML Deployment on Extreme Edge Devices
*Gayathri Mahendran, Gokhulnath Thirumaran, Syed Imam Ali and Vishwas Raj
Jadon*

iSAI-NLP-AIoT- 2A :Robotics, IoT and Embedded System

Session Chair : Assist. Dr. Chattrakul Sombattheera

Date: 28 November 2023, 14:45 - 17.00

Room : Kamolrudi

- 2A.1 **6- Dominant Wave Height Estimation Based on Spectral Analysis for Coastal Erosion Monitoring Systems in Real Time**
Parin Jatesiktat, Kasorn Galajit, Thanaphat Khemniwat, Patthranit Kaewcharuay, Pannathorn Sathirasattayanon and Jessada Karnjana
- 2A.2 **56- Solar-Powered IoT Charging System for ESP32 in Organic Rice Field**
Jarinya Thaloy, Parinya Jansengrat, Weena Janratchakool, Jaturapith Krohkaew, Padma Nyoman Crisnapati and Yamin Thwe
- 2A.3 **35- IoT Smart Innovation Bin for Promote Learning Garbage Segregation**
Chutiwan Boonarchatong, Saisuda Pantrakool, Phuripoj Kaewyong, Thinnagorn Chunhapatara, Kanitta Wongma and Kongsak Boonarchatong
- 2A.4 **48- Efficient Energy Management: Exploring an Online Automated System for Electric Device Control**
Saranpong Nooyimsai, Sutaporn Getpan, Kanathip Srion, Jaturapith Krohkaew, Padma Nyoman Crisnapati and Yamin Thwe
- 2A.5 **1- Renewable Energy Powered Weather Monitoring System using IoT**
Shresth Srivastava, Shivam Kaushik and Rahul Budhawar

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SAI-NLP-AIoT- 3A :Data Analytics and Machine Learning

Session Chair : Asst.Pro.Dr. Rattaprom Promkam

Date : 29 November 2023, 10.00-11.20

Room : Keawkamol

- 3A.1 9- Gaussian Processes for Automating Model Selection
Shyam Shanckin, Gayathri Mahendran and Gokhulnath Thirumaran
- 3A.2 47- Assessing HDBSCAN Implementation for Traffic Congestion Pattern Estimation in Bangkok with Taxi GPS Probe
Dio Tony and Rathachai Chawuthai
- 3A.3 37- Aspect-Oriented Unsupervised Domain Adaptation for Polarity Classification
Binghan Lu, Kiyooki Shirai and Natthawut Kertkeidkachorn
- 3A.4 14- Decentralized Federated Learning for Agricultural Plant Diseases Identification on Edge Devices
Kundjanasith Thonglek and Prapaporn Rattanatamrong

iSAI-NLP-AIoT- 3B :Data Analytics and Machine Learning

Session Chair : Asst.Prof.Dr. Rachada Kongkachandra

Date : 29 November 2023, 10.00-11.20

Room : Kornkamol

- 3B.1 24- A Comparative Study of Machine Learning and Deep Learning Models for Microplastic Identification using FTIR Spectra
Aeint Shune Thar, Seksan Laitrakun, Krit Athikulwongse, Somrudee Deepaisarn, Pakorn Opaprasit and Pattara Somnuake
- 3B.2 43- Decode Brain Signal into Thai Word Using EEG and L-SVM
Ekkarat Adsawinnawanawa, Md Soliman Faragy, Supakij Buasod, Narongdech Keeratipranon and Ratchakoon Pruengkarn
- 3B.3 23- Cloud Stateless Server Failover Prediction Using Machine Learning on Proactive System Metrics
Nutt Chairatana and Rathachai Chawuthai
- 3B.4 28- Time-series Data Imputation for Improved Prediction of PM10 Pollutant in Northern Thailand (online)
Seng Nu Pan Kumgyi, Somrudee Deepaisarn, Thepchai Supnithi and Tsuyoshi Isshiki
- 3B.5 34- Building a Dashboard Farm by Simulation with Node-Red
Kanchana Silawarawet and Tawan Phurat

iSAI-NLP-AIoT- 3C :Data Analytics and Machine Learning

Session Chair : Dr. Thittaporn Ganokratanaa

Date : 28 November 2023, 10.15-12.00

Room : Duangkamol

- 3C.1 45- Enhancing ECG Classification through Individual 12-lead Analysis and fQRS pattern based on Deep Learning technique
Kitiya Suriyachay, Yagi Kunimasa and Shikida Mikifumi
- 3C.2 49- Using knowledge graphs to enhance keyword search efficiency of the online encyclopedia and taxonomy system of the Office of the Royal Society
Vorapon Luantangsrisk, Kanchana Saengthongpattana, Adisak Kingkaewkanthong, Kanyanut Kriengkhet and Thepchai Supnithi
- 3C.3 36- Predictive quality assurance for ring gantry linear accelerator using deep learning and statistical process control
Chunlajit Petchuchart, Patiparn Kummanee, Wares Chancharoen, Chirasak Khamfongkhrua and Todsaporn Fuangrod
- 3C.4 3- A System Approach to Detect Medical Errors in Operational Data in Hospitals
Saad Aldoiji, Khalid Alblalaid, Fozah Alzemaia, Alia Almoajel, Omar Hammami and Shatha Alwablely

iSAI-NLP-AIoT- 4A :Signal, Image and Speech Processing

Session Chair : Asst.Prof.Dr. Mahasak Ketcham

Date : 28 November 2023, 14.45-16.00

Room : Kamonthip 3

- 4A.1 17- Exercise Pose Recognition and Counting System using Robust Topological Landmarks
Nyan Lin Mya, Somrudee Deepaisarn, Winai Chonnaparamutt, Seksan Laitrakun and Minoru Nakayama
- 4A.2 22- FireSpot: A Database for Smoke Detection in Early-stage Wildfires
Natthaphol Pornpholkullapat, Warit Phankrawee, Peraphat Boondet, Thin Lai Lai Thein, Phoummixay Siharath, Jennifer Dela Cruz, Ken T. Marata, Kanokvate Tungpimolrut and Jessada Karnjana
- 4A.3 30- B-on-Track: A Novel Evaluation Metric for Multiple Object Tracking
Phoochit Witchutanon, Somrudee Deepaisarn, Jessada Karnjana, Thanaruk Theeramunkong and Minoru Nakayama
- 4A.4 26- ThaiSpoof: A Database for Spoof Detection in Thai Language
Kasorn Galajit, Thunpsit Kosolsriwiwat, Candy Olivia Mawalim, Pakinee Aimmanee, Wree Kongprawechnon, Win Pa Pa, Anuwat Chaiwongyen, Teeradaj Racharak, Hayati Yassin, Jessada Karnjana, Surasak Boonkla and Masashi Unoki

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iSAI-NLP-AIoT- 4B :Signal, Image and Speech Processing

Session Chair : Asst. Prof. Dr. Pichate Kunakornwong

Date : 28 November 2023, 10.15-12.00

Room : Kamonthip 3

- 4B.1 52- The System Operates by Capturing Images of the Wall Surface and Applying Advanced Image Processing Algorithms to Analyze the Visual Data
Worawut Yimyam
- 4B.2 31- Resin-Based Classification of Plastic Bottles Waste using CNN Architectures
Mariyatul Qibthiyah and Radon Dhelika
- 4B.1 4- Online Fitting Room: A Mobile Application Using Augmented Reality (AR) Technology
Shrouk Elsawaf and Aziz Barbar
- 4B.2 54- Automated Image Recognition for Consumer Behavior Analysis: Histogram of Orientation Gradient
Thidarat Pinthong and Worawut Yimyam

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iSAI-NLP-AIoT- 4C :Signal, Image and Speech Processing

Session Chair : Asst. Prof. Jaturapith Krokeaw

Date : 28 November 2023, 13.00-14.30

Room : Kamoludil

4C.1 53- The License Plate Recognition System for Tracking Stolen Vehicles

Thidarat Pinthong and Worawut Yimyam

4C.2 55- Eggs Separation Process by Image Processing

Worawut Yimyam

iSAI-NLP-AIoT- 5A :Smart Industrial Technologies

5A.1 42- Low-Cost Automatic I-V Curve Tracer for Low Voltage Solar Panel

Ned Sureechainirun, Phatham Loahavilai and Waree Kongprawechnon

5A.2 40- A Study of EV and PV Effects in Residential Distribution Networks using Monte Carlo Simulation and Smart Meter Dataset

Supachai Vorapojpisut, Nithipat Makumpon and Chanatip Srirattanatapee

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iSAI-NLP-AIoT- 6A :Management Technology

Session Chair : Asst. Prof. Dr. Burasakorn Yoosuka

Co-Session Chair : Dr. Suvil Chomchaiya

Date : 28 November 2023, 13.00-14.30

Room : Kamonthip 3

- 6A.1 46- Medical Artificial Intelligence Research Landscape in Thailand: A Bibliometric Analysis
Alisa Kongthon
- 6A.2 20- STAT Intelligence: Data Management and Monitoring Platform for BCG Economy Model
Pattama Krataithong, Marut Buranarach, Patipat Tumsangthong and Theerawat Wutthitasarn
- 6A.3 44- Analyzes the Relationship Between the Personality of the Lecturer and the Learner and its Impact on Learning Achievement
Kwanrutai Saelim, Tatchalerm Sudhipongpracha and Rachada Kongkachandra
- 6A.4 27- Development of Systematic Layout Planning in Fruit Packing House Business
Thanapong Ruamsuke, Wichuda Mingsakul and Nalinee Chanamool

iSAI-NLP-AIoT- 7A :AI and IoT : Design and Applications

Session Chair : Asst. Prof. Pongpon Nilapruk

Date : 28 November 2023, 10.15-12.00

Room :Kamolrudi

- 7A.1 **39- Vehicle Telematics System Design for Real-time Applications using Mobile Networks**
Sitinit Waisara, Srijidtra Charoenlarnopparut, Chadchai Srisurangkul and Takayuki Nishio
- 7A.2 **50- Generative AI for Self-Healing Systems**
Pitikorn Khlaisamniang, Prachaya Khomduean, Kriangkrai Saetan and Supasin Wonglapsuwan
- 7A.3 **16- Finetuning Transformer-based MT Using Syntactic Guides**
Jinnawat Makwisai, Prachya Boonkwan, Sasiporn Usanavasin, Natsuda Kaothanthong and Manabu Okumura
- 7A.4 **13- Comment Usefulness Classification on Youtube using Artificial Neural Networks**
Akkharawoot Takhom, Pimmada Chirawat and Prachya Boonkwan
- 7A.5 **5- Amharic Text Event Classifications using Hybrid Deep Learning Techniques**
Amogne Anduaem, Tesfa Tegegne and Gebre Egziabher Nigusie

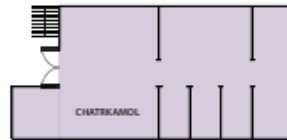
Rattanakosin 1st fl.



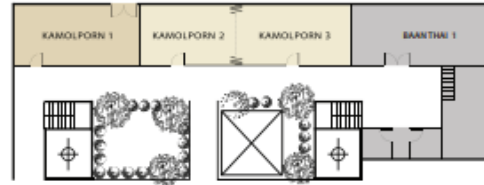
Premkamol 1st fl.



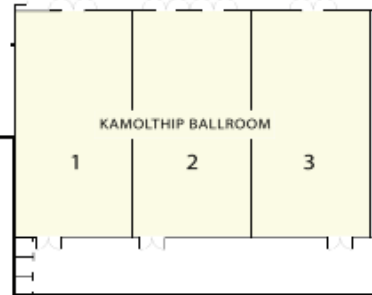
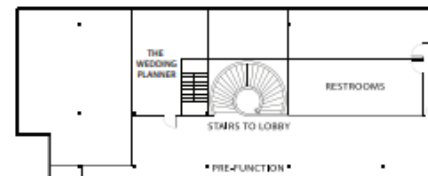
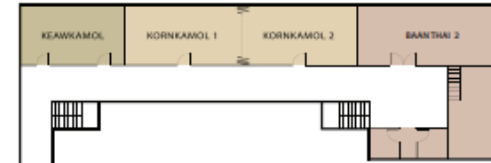
Chatrkamol 2nd fl.



Garden Pavilion 1st Fl.



Garden Pavilion 2nd Fl.



Siam Wing 6th Fl.



ROOMS	DIMENSIONS			CAPACITIES			
	Dimensions (m.)	Area (sq.m.)	Ceiling Height (m.)	Theatre	Classroom	Cocktail	Banquet
Kamolthip Ballroom	22 x 33	726	5	800	500	800	600
Room 1	11 x 22	242	5	260	140	200	150
Room 2	11 x 22	242	5	260	140	200	150
Room 3	11 x 22	242	5	260	140	200	150
Kamolruedi	8 x 12.5	100	3.5	72	45	60	50
Duangkamol	7 x 15	105	3.5	96	60	70	80
Kingkamol	5 x 7	35	3.5	30	27	30	30
Ketkamol	6 x 7	42	3.5	40	27	30	30
Kamolmart	7 x 14	98	3.5	90	60	120	80
Kornkamol	5.5 x 22	121	3	137	84	130	100
Kaewkamol	5.5 x 7	38.5	3	39	24	30	30
Kamolporn	5.5 x 29	159	3	180	100	180	150
Rattanakosin	10 x 14	140	8	140	45	130	80
Premkamol	19 x 15	285	2.7	-	-	100	90
Chatrkamol	15 x 33	495	2.7	-	-	80	-
Baan Thai 1	8 x 14	112	2.7	40	-	30	40
Baan Thai 2	11 x 11	121	2.6	50	30	40	50