

## Program Schedule

Thursday 18 <sup>th</sup> May 2023	
08:00 - 09:00	Registration
09:00 - 09:15	Report by <b>Assistant Professor Dr. Dr.-Ing. Sunantha Sodsee</b> , <i>Dean, Faculty of Information Technology and Digital Innovation</i> <i>King Mongkut's University of Technology North Bangkok</i>
09:15 - 09:30	Opening Ceremony by <b>Professor Dr. -Ing. habil. Suchart Siengchin</b> , <i>President, King Mongkut's University of Technology North Bangkok</i>
09:30 - 09:45	<i>Group Photo</i>
09:45 - 10:45	Invited Keynote Speech by <b>Professor Dr. Stephan Pareigis</b> , <ul style="list-style-type: none"><li>• Department Informatik, Professor für Angewandte Mathematik und Technische Informatik, Germany</li></ul>
10:45 - 11:00	<i>Coffee break</i>
11:00 - 12:00	Invited Keynote Speech by <b>Dr. Winn Voravuthikunchai</b> , <ul style="list-style-type: none"><li>• PhD in AI from Caen University, France, Founder &amp; CEO of Botnoi Group, Thailand</li></ul>
12:00 - 13:00	<i>Lunch</i>
13:00 - 15:00	<b>Paper Presentation</b>
15:00 - 15:20	<i>Coffee break</i>
15:20 - 16:40	<b>Paper Presentation</b>
18:00 - 22:00	<b>Welcome Dinner and Best Paper Award Presentation</b>

Thursday 18<sup>th</sup> May 2023

ROOM: I (Data Mining, Text Mining and Related Fields)

13:00 – 13:20 NCCIT2023-002	<b>Design of machine learning for Lime Classification based upon Thai Agricultural Standard No. TAS 27-2017</b> <i>Alongkron Klaikluen and Athakorn Kengpol</i>
13:20 – 13:40 NCCIT2023-011	<b>Predicting the Master’s Educational Achievement using Different Models</b> <i>Unhawa Ninrutsirikun, Aphorn Chiawchankaset, Sanit Sirisawatvatana, and Vithida Chongsuphajaisiddhi</i>
13:40 – 14:00 NCCIT2023-023	<b>User Feedback Analytics for Supporting Mobile Application Maintainability</b> <i>Sujaree Thairat and Monvorath Phongpaibul</i>
14:00 – 14:20 NCCIT2023-029	<b>Alzheimer’s Disease Classification Using Two-Dimensional Variational Mode Decomposition and Principal Component Analysis with Entropy</b> <i>Sittisak Saechueng, Ungsumalee Suttapakti, Aekapop Bunpeng, and Wittawas Puntumchinda</i>
14:20 – 14:40 NCCIT2023-041	<b>Development of a Prototype Health Care Recommender Application with Machine Learning Techniques</b> <i>Uraivan Inyaem, Chamaiphon Yeamklin, and Siriwarn Seemo</i>
14:40 – 15:00 NCCIT2023-053	<b>A Model for Analysis of Cyber Attack Behaviors Using Artificial Intelligence in the Royal Thai Air Force</b> <i>Natdanai Kongkhunthod, Prasong Praneetpolgrang, and Payap Sirinam</i>
	<i>End Session</i>

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**ROOM: II (Data Mining, Text Mining and Related Fields)**

13:00 – 13:20 NCCIT2023-001	<b>Application of Bat Search to Design PID Controller for Time Delay System</b> <i>Paitoon Janreung and Danupon Kumpanya</i>
13:20 – 13:40 NCCIT2023-004	<b>Automated Non-Functional Properties Testing Tool for GraphQL API</b> <i>Pattadon Prongpreecha and Nuengwong Tuaycharoen</i>
13:40 – 14:00 NCCIT2023-054	<b>Forecast of Electric Consumption in Thailand using Data Mining Technique</b> <i>Mintra Mesawong and Tanapon Jentsuttiwetchakul</i>
14:00 – 14:20 NCCIT2023-056	<b>Forecasting of Climate Change in Rice Planting Areas in Northeastern Thailand with Time Series Analysis Techniques</b> <i>Kankawin Chamchoi and Nattavee Utakrit</i>
14:20 – 14:40 NCCIT2023-065	<b>Study and Development of Business Intelligence System for Forecasting the Demand for Herb Raw Materials, A Case Study of the Chaophya Abhaibhubejhr Hospital Foundation</b> <i>Pasit Thong-on and Montean Rattanasiriwongwut</i>
14:40 – 15:00 NCCIT2023-077	<b>Forecasting System for Repayment Through Online Payment Using Time Series Techniques</b> <i>Yongyut Intarpassit and Watchareewan Jitsakul</i>
	<i>End Session</i>

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**ROOM: III (Image Processing, Internet of Things, Blockchain and Related Fields)**

13:00 – 13:20 NCCIT2023-005	<b>Detecting Spammer Groups Using Centrality Measure</b> <i>Natthanicha Suriyamongkol and Sukree Sinthupinyo</i>
13:20 – 13:40 NCCIT2023-021	<b>The Development of Artificial Intelligence for Face Mask Detection System in Chantaburi Province</b> <i>Sathit Suwannawach, Thipwan Fufaung, and Khanittha Sittitiamjan</i>
13:40 – 14:00 NCCIT2023-025	<b>Performance Enhancement for Environmental Monitoring with Graduated Change Situation in Edge Computing</b> <i>Theerapat Deeprasert, Aphirak Jansang, Chaiporn Jaikaeo, Withawat Tangtrongpairaj, and Anan Phonphoem</i>
14:00 – 14:20 NCCIT2023-031	<b>Data Security Using Encryption with Image Steganography</b> <i>Thanawat Yochanang</i>
14:20 – 14:40 NCCIT2023-051	<b>Design and Development of a Data Storage and Exchange Systems for the Air Force Command and Control Systems Using Blockchain Technology</b> <i>Thanakrit Pengkian, Prasong Praneetpolgrang, and Payap Sirinam</i>
14:40 – 15:00 NCCIT2023-052	<b>Development of IoT System for Cultivation of Cordyceps militaris</b> <i>Samatachai Jantararat, Jedsada Arunruek, and Patrapee Sunantapot</i>
15:00 – 15:20	<i>Break</i>
15:20 – 15:40 NCCIT2023-061	<b>Applying Image Processing and Natural Language Understanding with LINE Chatbot for Rabbit Caring</b> <i>Preeyarwat Tamawimok and Natavee Utakrit</i>
15:40 – 16:00 NCCIT2023-062	<b>Development of Life Jacket to Monitor Water Accident Victim with the Internet of Things</b> <i>Somchoke Kittisitthipong and Mahasak Ketcham</i>
	<i>End Session</i>

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**ROOM: IV (Acceptance, Innovation, Adoption and Related Fields)**

13:00 – 13:20 NCCIT2023-022	<b>Acceptance Factors for the use of Clubhouse as the Communication Channel and the Expression of Thoughts</b> <i>Rachata Sriaroon and Pramote Luenam</i>
13:20 – 13:40 NCCIT2023-024	<b>Factors Affecting the Continuance Intention to Use of QR Payment Services</b> <i>Napatkanok Srikanjanodom and Pramote Luenam</i>
13:40 – 14:00 NCCIT2023-055	<b>Factory Affecting User’s Perceive Benefits of Personal Income Tax Payment Through Internet</b> <i>Apisara Onthao and Tanapon Jentsuttiwetchakul</i>
14:00 – 14:20 NCCIT2023-064	<b>Factors Analysis Decision Making in Selecting Institutions Faculty of Information Technology and Digital Innovation</b> <i>Chonlada Chuchomchuen and Montean Rattanasiriwongwut</i>
14:20 – 14:40 NCCIT2023-075	<b>Factors Affecting the Adoption of Automatic Beverage Dispenser Technology</b> <i>Supichaya Jitarom and Tanapon Jentsuttiwetchakul</i>
14:40 – 15:00 NCCIT2023-078	<b>Factors Affecting Attitude of Data Privacy Acceptance of Mobile Banking Users</b> <i>Walailak Gatthaisong and Sakchai Tangwannawit</i>
	<i>End Session</i>

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ROOM: V (Information System and Related Fields)

13:00 – 13:20 NCCIT2023-003	<b>Development of an Automatic Tools for Modeling the Relationships of RESTful API Web Service</b> <i>Wipada Klungtes and Nuengwong Tuaycharoen</i>
13:20 – 13:40 NCCIT2023-020	<b>Test Automation Report using BDD with Gherkin</b> <i>Jare Sophanpanitchakul and Taratip Suwannasart</i>
13:40 – 14:00 NCCIT2023-026	<b>Development of Personalized Programming Tutoring Systems</b> <i>Todsapon Banklongsi and Charun Sanrach</i>
14:00 – 14:20 NCCIT2023-030	<b>The Checking the Parking with LINE Application</b> <i>Sittichop Ratrojkij, Pattarapong Jarrusrojoka, Thanaphon Yochana, Orawan Chunhapran, and Rath Burirat</i>
14:20 – 14:40 NCCIT2023-033	<b>Application for Training Artificial Intelligence Skills in the Context of Employees in Kanchanaburi Province</b> <i>Sutat Gammanee, Narongdech Rattananonsathien, and Kwannaree Klaprabchone</i>
14:40 – 15:00 NCCIT2023-035	<b>User Experience Design of Smart TV Applications for the Elderly in Thailand</b> <i>Sittichoke Sakon and Waraporn Jirapanthong</i>
15:00 – 15:20	<i>Break</i>
15:20 – 15:40 NCCIT2023-037	<b>Automatic User Interface Testing for Web Application with Cypress Framework: A Case Study of an Online Assessment Web Application</b> <i>Tatchanon Srisamudh, Atiwong Suchato, Dittaya Wanvarie, Naruemon Pratanwanich, and Nuengwong Tuaycharoen</i>
15:40 – 16:00 NCCIT2023-045	<b>The Development of Personal Data Protection Act Function in Enterprise Resource Planning System</b> <i>Chamaiporn Peesiri and Sakchai Tangwannawit</i>
	<i>End Session</i>

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Friday 19 <sup>th</sup> May 2023	
09:00 - 10:20	<b>Paper Presentation</b>
10:20 - 10:40	<i>Break</i>
10:40 - 12:00	<b>Paper Presentation</b>

Friday 19<sup>th</sup> May 2023

ROOM: I (Data Mining, Text Mining, and Related Fields)

09:00 – 09:20 NCCIT2023-049	<b>Text Classification for Automatic Problem Reporting</b> <i>Puwanart Poopankul and Phayung Meesad</i>
09:20 – 09:40 NCCIT2023-067	<b>Classification of Packet Pattern for Network Intrusion by Using Data Mining</b> <i>Nichapha Saewiang and Montean Rattanasiriwongwut</i>
09:40 – 10:00 NCCIT2023-069	<b>Classifying Infectious Disease Symptoms based on ICD-10 Standards using Deep Learning</b> <i>Duangrudee Phetphirun and Watchareewan Jitsakul</i>
10:00 – 10:20 NCCIT2023-071	<b>Deep Learning Techniques Comparison for Analyzing Opinions of Thailand Post Service User</b> <i>Wannakorn Puenguthaisri and Watchareewan Jitsakul</i>
10:20 – 10:40	<i>Break</i>
10:40 – 11:00 NCCIT2023-072	<b>Comparison of Algorithms for Face Recognition</b> <i>Nattapong Jantarasorn and Watchareewan Jitsakul</i>
11:00 – 11:20 NCCIT2023-073	<b>Predictive of Outstanding Debts for Housing Loan by Data Mining</b> <i>Kamonchanok Rungjaroen and Watchareewan Jitsakul</i>
11:20 – 11:40 NCCIT2023-074	<b>A Comparison of Algorithms for Export Value Forecast of Thai Small and Medium Enterprises</b> <i>Apisak Suno and Watchareewan Jitsakul</i>
11:40 – 12:00 NCCIT2023-082	<b>Examination of The Social Security Office's Dental Benefits Disbursement Behavior by Data Mining Techniques</b> <i>Chawarus Kerot and Watchareewan Jitsakul</i>
	<i>End Session</i>



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ROOM: II (Data Mining, Text Mining, and Related Fields)

09:00 – 09:20 NCCIT2023-010	<b>A Comparison of Algorithms for Classifying Securities in the Stock Exchange of Thailand</b> <i>Fathip Wanhom and Tanapon Jentsuttiwetchakul</i>
09:20 – 09:40 NCCIT2023-034	<b>Forecasting Model for The Number of Patients in The Public Hospital by using Data Mining Techniques</b> <i>Nuttaya Sangnark and Sakchai Tangwannawit</i>
09:40 – 10:00 NCCIT2023-057	<b>Development of a Tourist Attraction Recommendation System with Machine Learning Technology</b> <i>Supatsara Krasaesat and Montean Rattanasiriwongwut</i>
10:00 – 10:20 NCCIT2023-066	<b>Development of Environmental Quality Measurement Systems via Monitoring and Evaluating with Real-time Notification on Application</b> <i>Marisa Sangnul and Mahasak Ketcham</i>
10:20 – 10:40	<i>Break</i>
10:40 – 11:00 NCCIT2023-086	<b>Classification of Broadband Network Devices Using Text Mining Technique</b> <i>Nattapat Sridoung and Mahasak Ketcham</i>
11:00 – 11:20 NCCIT2023-088	<b>Forecasting System of Oil Refinery using Time Series Techniques</b> <i>Ratchaphoom Boonnaka and Watchareewan Jitsakul</i>
11:20 – 11:40 NCCIT2023-091	<b>The Comparison of Algorithms Performance to Analysis Hotel Guest Reviews</b> <i>Santi Sukkasem and Watchareewan Jitsakul</i>
11:40 – 12:00 NCCIT2023-092	<b>Comparison of Algorithm Performance for Forecasting Thailand's Inflation</b> <i>Onuma Jamuang and Watchareewan Jitsakul</i>
	<i>End Session</i>

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**ROOM: III (Internet of Things, Network and Related Fields)**

09:00 – 09:20 NCCIT2023-063	<b>Co-Farming Platform using Internet of Things Technology</b> <i>Lertsak Hongjan and Chatchawin Namman</i>
09:20 – 09:40 NCCIT2023-083	<b>Comparison of Image Classification of Buildings with Deep Learning Techniques</b> <i>Piradate Tolornuwat and Watchareewan Jitsakul</i>
09:40 – 10:00 NCCIT2023-084	<b>Forecasting the Number of Victims from Road Accidents in Bangkok Using Time-Series Analysis Techniques</b> <i>Suphannara Siwaratchakun and Mahasak Ketcham</i>
10:00 – 10:20 NCCIT2023-089	<b>Development of Chatbot Application Supports Computer Related Tasks in the Organization</b> <i>Perm Ratanaphirom and Montean Rattanasiriwongwut</i>
10:20 – 10:40	<i>Break</i>
10:40 – 11:00 NCCIT2023-093	<b>An Analytic System for Pipe Breakages Using Association Rules and Web Map Services</b> <i>Kantana Pooltong and Pudsadee Boonrawd</i>
11:00 – 11:20 NCCIT2023-094	<b>Customer Loyalty Programs Using Decentralized Application</b> <i>Pratin Sonnekorn and Pudsadee Boonrawd</i>
11:20 – 11:40 NCCIT2023-095	<b>Laser Marking System Using Optical Character Recognition and Application Program Interface</b> <i>Panumart Inchee and Pudsadee Boonrawd</i>
	<i>End Session</i>

Friday 19<sup>th</sup> May 2023

**ROOM: IV (Information System and Related Fields)**

09:00 – 09:20 NCCIT2023-047	<b>The Development of Guideline for Software Testing by Using Black-Box Techniques for Standard Functions</b> <i>Sarawadee Trakunhun and Sakchai Tangwannawit</i>
09:20 – 09:40 NCCIT2023-058	<b>Retirement Mutual Fund Investment Performance Comparison System with Dollar Cost Averaging Strategy and Lump Sum Strategy using Business Intelligence</b> <i>Apichart Kiatyudthachart and Nattavee Utakrit</i>
09:40 – 10:00 NCCIT2023-059	<b>A Development of Project Resource Management</b> <i>Nattapol Puninagoon and Nattavee Utakrit</i>
10:00 – 10:20 NCCIT2023-060	<b>Development of Purchase and Inventory Management System on Smartphones for a Small Grocery Store</b> <i>Surachat Aunsorn and Nattavee Utakrit</i>
10:20 – 10:40	<i>Break</i>
10:40 – 11:00 NCCIT2023-070	<b>A Game for Dementia Risk Reduction in Elders</b> <i>Sunitta Yentour, Nathee Yongyut, Konggrit Pitanon, and Dechawut Wanichsan</i>
11:00 – 11:20 NCCIT2023-076	<b>A Smart LINE Chatbot and Techniques for Auto Correct</b> <i>Jirasak Pipatwarakul and Phayung Meesad</i>
11:20 – 11:40 NCCIT2023-090	<b>The Information System for the Strategic Project of Rajabhat University for Local Development: Phuket Rajabhat University</b> <i>Donrat Khongharn and Sakchai Tangwannawit</i>
	<i>End Session</i>

Friday 19<sup>th</sup> May 2023

ROOM: V (Network and Related Fields)

09:00 – 09:20 NCCIT2023-006	<b>Continuous Authentication for Library Services Using Facial Recognition</b> <i>Premagorn Thaweehan and Pramote Kuacharoene</i>
09:20 – 09:40 NCCIT2023-028	<b>Dynamic Allocation Algorithm for 802.11ah</b> <i>Kanut Injaiea, Aphirak Jansang, Chaiporn Jaikaeo, Withawat Tangtrongpairoj, and Anan Phonphoem</i>
09:40 – 10:00 NCCIT2023-050	<b>Cybersecurity Awareness, Readiness and Indicator in the Armed Force Security Center, Royal Thai Armed Forces Headquarters</b> <i>Todsaporn Klearwun, Surasak Mungsing, Chanapatt Pattaramaetakul, Prasan Wongkitisopon, and Prasong Praneetpolgrang</i>
10:00 – 10:20 NCCIT2023-085	<b>Development of an ECG Machine to Diagnose Arrhythmias</b> <i>Supeerawong Pothikanit and Mahasak Ketcham</i>
	<i>End Session</i>