

Wednesday 14 December 2016, Workshop Day	
8.30 - 9.00	Registration Starts
9.00 - 12.00	Workshop (Round01) "ISO17024 with (Apple/Google technology) Gametology in training" Facilitator : <b>Dr.H.C. Charles Singh</b> , Country Manager, CompTIA (Thailand)
12.00 - 13.00	Lunch
13.00 - 16.30	Workshop (Round02) "ISO17024 with (Apple/Google technology) Gametology in training" Facilitator : <b>Dr.H.C. Charles Singh</b> , Country Manager, CompTIA (Thailand)
18.00 - 20.00	Welcome Party

## Thursday 15 December 2016, Opening Ceremony

8.30 - 9.00	Registration Starts
9.00 - 9.30	Opening Ceremony
9.35 - 10.20	Keynote Speaker I : Prof. Dr. Potchanat Samermit, University of Interdisciplinary Studies, USA Title: "A Note on Computer and Human Intelligence"
10.20 - 10.30	Honorary Award Ceremony for Assoc. Prof. Dr.Yuen Poovarawan
10.30 - 10.45	Break (Refreshment and Concession are provided)
10.45 - 11.20	Keynote Speaker II : Prof. Dr. K.Somasundaram, Gandhigram Rural Institute, India Title: "Challenges in Image Segmentation"
12.00 - 13.00	Lunch

## Thursday 15 December 2016, 13.00 - 15.20, Technical Parallel Session

	Parallel Session (1) E1-1A	Parallel Session (2) E1-1B	Parallel Session (3) E1-1C	Thai Track (1) T1-1D	Parallel Session (4) E1-1E
Session Title	Computer vision	IoT	IT	CS and E Ontology	SE
13.00 - 13.20	ID-13	ID-28	ID-24	ID-118	ID-56
	Visibility Restoration of Lake Crater Hazy Image Based On Dark Channel Prior	Policy Management for Docker Ecosystem	A New Approach to Extracting Sport Highlight	การศึกษาแบบจำลองความหมายเชิงประจักษ์สำหรับถอดรหัสรูปแบบการกระตุ้นของสมองบนแอปพลิเคชันไอโอ	Adopting a Combination of Scrum and Waterfall Methodologies in Developing Tailor-made SaaS Products for Thai Service and Manufacturing SMEs.
13.20 - 13.40	ID-74	ID-113	ID-26	ID-142	ID-99
	Brain Portion Segmentation From Magnetic Resonance Images(MRI) Of Human Head Scan Using Richardson Lucy Deconvolution And Intensity Thresholding	Selection Model for Communication Performance of the Bus Tracking System	An Institution Recommender System Based on Student Context and Educational Institution in a Mobile Environment	การวางแผนการผลิตเพื่อลดการทำงานล่วงเวลา กรณีศึกษาโรงงานประกอบชิ้นส่วนอิเล็กทรอนิกส์	OUTSOURCING CONTRACT MANAGEMENT CHALLENGES: A DETAILED STUDY
13.40 - 14.00	ID-75	ID-131	ID-52	ID-199	ID-160
	Fetal Head Localization and Fetal Brain Segmentation from MRI using the Center of Gravity	Internet of Things for Planting in Smart Farm Hydroponics Style	Stock Price Trend Prediction using Artificial Neural Network Techniques Case Study: Thailand Stock Exchange	Longan Grading Using Hough Transform	A Framework of Thailand Higher Education Dashboard System

## Thursday 15 December 2016, 13.00 - 15.20, Technical Parallel Session

	Parallel Session (1) E1-1A	Parallel Session (2) E1-1B	Parallel Session (3) E1-1C	Thai Track (1) T1-1D	Parallel Session (4) E1-1E
Session Title	Computer vision	IoT	IT	CS and E Ontology	SE
14.00 – 14.20	ID-77	ID-152	ID-61	ID-53	ID-177
	Brain Abnormality Detection from MRI of Human Head Scans using the Bilateral Symmetry Property and Histogram Similarity Measures	IoT Planting: Watering System Using Mobile Application for Elderly	Factors of S-Commerce Influencing Trust and Purchase Intention	An Ontology Based Chatbot Application for Diabetes Diagnosis	A Framework to Applying ISO/IEC29110 on SCRUM
14.20 – 14.40	ID-101	ID-153	ID-80	ID-201	ID-182
	A Hybrid EMPCA-Scott Approach for Estimating Probability Distributions in Mutual Information	Smart Healthcare: Basic Health Check-up and Monitoring System for Elderly	The Performance Evaluation of a Hybrid Immune Genetic Algorithm Based on Mathematical Functions	เครื่องมือควบคุมการปรับแต่งแม่แบบเว็บแอปพลิเคชัน	Detecting Deadlock in Activity Diagram Using Process Automata
14.40 – 15.00	ID-126	ID-156	ID-88	ID-69	ID-83
	Motion Blur Parameter Estimation Based on Autocorrelation for Liver Ultrasound Image	Comparison of Load Balancing Methods for Raspberry –Pi Clustered Embedded Web Servers	A classification of accelerometer data to differentiate pedestrian state	Efficient Parallel Longest Common Subsequence with Pipelining Technique	Weighted Minimum Consecutive Pair of The Extreme Pole Outlier Factor
15.00-15.20	Break (Refreshment and Concession are provided)				

## Thursday 15 December 2016, 15.20 - 17.40, Technical Parallel Session

	Parallel Session (5) E1-2A	Parallel Session (6) E1-2B	Parallel Session (7) E1-2C	Thai Track (2) T1-2D	
Session Title	CV	IOT & Embedded	IT	KM	
15.20 - 15.40	ID-144 Automatic Lung Segmentation in Chest Radiographs Using Shadow Filter and Multilevel Thresholding	ID-94 A Hardware-Based Security Scheme for In-Vehicle CAN	ID-104 A Combination of GA and Fuzzy Set for a Phuket Tourism Planning Model (PTPM)	ID-27 Analysis System of Bantam Breeds through Choosing and Assembly Pieces Model of Looks and Color	<b>Steering Committee Meeting</b>
15.40 - 16.00	ID-165 Construction and Validation of Economic Vision System for Bacterial Colony Count	ID-209 MQTT-Topic Naming Criteria of Open Data for Smart Cities	ID-106 Effect of Personality Factors on Attitude Towards the Adoption of Health Information via Online Social Networking	ID-32 Online System for Managing Data and Analyzing Group of Stateless People: Case Studies in the Area of Chiang Mai and Chiang Rai Provinces	
16.00 - 16.20	ID-186 Rice-Root Cortex Segmentation Using Graph Optimization and Multi-Resolution Analysis	ID-211 Automatic Faucet with Changeable Flow based on MQTT protocol	ID-148 A Conceptual Framework of Students with Visual Impairments on Website Accessibility Acceptance	ID-45 Converting Thai Music Note in Form of Structure of Western Music Note Based on MusicXML	
16.20 - 16.40	ID-207 An Image-processing Based Algorithm for Rice Seed Germination Rate Evaluation	ID-500 Design and Implementation of a Automatic Smart Urinal Flusher	ID-154 Thai Speech Synthesis Based on Formant Synthesis for Home Robot	ID-72 Rule-based Diagnosis System for the Respiratory Tract Diseases	

## Thursday 15 December 2016, 15.20 - 17.40, Technical Parallel Session

	Parallel Session (5) E1-2A	Parallel Session (6) E1-2B	Parallel Session (7) E1-2C	Thai Track (2) T1-2D	
Session Title	CV	IOT & Embedded	IT	KM	
16.40 - 17.00		ID-120	ID-158	ID-150	<b>Steering Committee Meeting</b>
		Measuring Information On Mobile Devices Usage: An Entropy-Based Approach	Suspect Tracking Based on Call Logs Analysis and Visualization	A Conceptual Framework Transforms Mobility Social Networking Application to Top Mobility Social Networking Application	
17.00 - 17.20		ID-70	ID-164	ID-178	
		Hadoop Distributed Computing Clusters for Fault Prediction	DNA forensic system for police forensic science center cooperation : Architectural design and implementation	A Development of Opinion Mining Measurement Tool for Hashtag Messages on the Social Networks	
17.20 - 17.40				ID-189	
				Subspace Ranking Algorithms	
18.00 - 21.00	*** Banquet ***				

## Poster Session

Thursday 15 December 2016, 15.00 - 15.20

Poster session (International Track)			
15.00-15.20	PID-54	PID-121	PID-195
	An Improved Method of ONU Placement on Multi-hop Wireless Connections for Hybrid Wireless-Optical Broadband Access Network	Hybrid Wireless Sensor Network for Tourism Farm	Essential social attributes and Habit in fitness mobile applications usage to persuade a physical activity
	PID-117	PID-402	
	Numerical Simulation of Acoustic Lenses based on Fresnel Zone Plate	The UHF RFID Wristband System for Attending the Rehearsal Sessions and Graduation Ceremony	
	Poster session (Thai Track)		
	PID-401	PID-41	PID-167
ประสิทธิภาพของระบบการจัดการเรียนการสอนโดยสื่อสารผ่านเครือข่ายสังคม	แอปพลิเคชันสำหรับการสื่อสารด้วยการแปลงท่าทางมือเป็นเสียงพูด	Automatic Gateway Selection on Multi-Gateways System in Wireless sensor network	

## Friday, 16 December 2016, Keynote Session

8.30 - 9.00	Registration Starts
9.00 - 9.55	<b>Keynote Speaker III :</b> <b>Asst. Prof. Dr. Thanarat Chalidabhongse</b> , Chulalongkorn University, Thailand Title: “Reading Text in a Wild”
9.55 - 10.50	<b>Keynote Speaker IV :</b> <b>Dr.Adib Habbal</b> , Universiti Utara Malaysia, Malaysia Title: “The Internet Weather in ASEAN Countries”
10.50 - 11.00	Break (Refreshment and Concession are provided)
11.00 - 11.45	<b>Keynote Speaker V :</b> <b>Dr. H.C. Charles Singh</b> , Country Manager, CompTIA (Thailand) Title: “Steps for Increasing Data Protection”
12.00 - 13.00	Lunch



## Friday 16 December 2016, 13.00 - 15.00, Technical Parallel Session

	Parallel Session (8) E2-1A	Parallel Session (9) E2-1B	Parallel Session (10) E2-1C	Parallel Session (11) E2-1D	Parallel session (12) E2-1E	Thai Track (3) T2-1F
Session Title	CN	Bioinform. & IR	Geoinfor. & IT	ML	CS&E & Ontology & Theoretical CS	CN & Embedded & IoT
13.00 - 13.20	ID-55	ID-143	ID-36	ID-12	ID-18	ID-22
	Optimal Resource Allocation Scheme in Femtocell Networks Using Bacterial Foraging Optimization	Centrality Searching on Signal Transduction Pathway for Drug Selection Support System in Targeted Cancer Therapy	A GEOMETRICAL DATA CLASSIFICATION USING SELF-ORGANIZING MAP WITH FIXED POSSIBLE MATCHING UNITS	TS Fuzzy Based H-infinity Speed Controller Design for Uncertain Surface-Mounted Permanent-Magnet Synchronous Motor	Optimization of PID Controller based on Taguchi Combined Particle Swarm Optimization for AVR System of Synchronous Generator	Multi-Hop Relayed Message Sending for MQTT Protocol
13.20 - 13.40	ID-73	ID-145	ID-137	ID-34	ID-193	ID-162
	Increasing TCP performances on wired and wireless networks by using TCP freeze	A Novel Technique of Liver Ultrasound Image Enhancement by Modified Fourier Transform for Bile Duct Cancer Surveillance	GeoJSON Web Service Based Road Assets Management System for Surabaya City using Mobile GPS	An Ant Colony Optimization Method for the Capacitated Vehicle Routing Problem with Stochastic Demands	Efficient Algorithms for Thai Tweet Summarization	วิเคราะห์ผลกระทบของความแม่นยำการชี้ทิศทางของ Tracking Antenna และขยายระยะสื่อสาร ในระบบ UAV
13.40 - 14.00	ID-136	ID-208	ID-184	ID-50	ID-76	ID-163
	Fine-Grained Bandwidth Allocation in Software-Defined Networks	Gene Classification of Dengue Virus Type Based on Codon Usage	Integrated Satellite-Derived Indices to Estimate Change Detection of Vegetation Canopy Density in the Lower Chi Basin, Northeast Thailand	Univariate short term forecasting of solar irradiance using modified online backpropagation through time	Ontology-Based Knowledge and Optimization Model for Decision Support System to Intercropping	ระบบตรวจสอบและแจ้งเตือนประสิทธิภาพและคุณภาพการให้บริการของระบบเครือข่ายภายในองค์กร

## Friday 16 December 2016, 13.00 - 15.00, Technical Parallel Session

	Parallel Session (8) E2-1A	Parallel Session (9) E2-1B	Parallel Session (10) E2-1C	Parallel Session (11) E2-1D	Parallel session (12) E2-1E	Thai Track (3) T2-1F
Session Title	CN	Bioinfor. & IR	Geoinfor. & IT	ML	CS&E & Ontology & Theoretical CS	CN & Embedded & IoT
14.00 - 14.20	ID-161	ID-109	ID-176	ID-51	ID-98	ID-203
	The Implementation of the UniNet's Research DMZ	A Multi-Layer Graph Analytics to Identify Bioinformatics Tool Usage Practices from Tool Directories and PubMed Indexed Cross-citations	Framework of Waste Recycling Suggestion in Sufficiency Economy Farming	A Forecast Model for Stock Trading using Support Vector Machine	Automatic detection of variable data in Web document: Graphical representation on demand	Electrical Device Controlling using Android and Arduino
14.20 - 14.40	ID-169	ID-122	ID-300	ID-57	ID-111	ID-39
	Multi-hop Wireless Network Localization Techniques: An empirical study for indoor environment using ultra wideband radio technology.	Automated Discovery of Product Preferences in Ubiquitous Social Media Data: A Case Study of Automobile Market	Improving the Performance of the OTOP Online Marketing	ICA-DEODA: An Independent Feature Extraction Model for Stock Index Forecasting	A Case Study in a Socio-technical Approach in Ontology Engineering	การพัฒนาแอปพลิเคชันควบคุมการทำงานของระบบบ้านอัจฉริยะ
14.40 - 15.00	ID-197	ID-157		ID-202	ID-185	ID-133
	New Cost Calculation Method for Finding Shortest Path of Hybrid VANET Protocol	Simple-Phrase Score for Selective Query Expansion in Health Information Retrieval		Effective Threshold Estimation for Filter-based Feature Selection	An Improved Centralized Algorithm for Distance-Preserving Dominating Sets in Heterogeneous Wireless Sensor Networks	School Bus Tracking System by Using GPS via Smart Phone Application
15.00 - 15.10	Break (Refreshment and Concession are provided)					

## Friday 16 December 2016, 15.10 - 17.10, Technical Parallel Session

	Parallel Session (13) E2-2A	Parallel Session (14) E2-2B	Parallel Session (15) E2-2C	Parallel Session (16) E2-2D	Thai Track (4) T2-2E	Thai Track (5) T2-2F
Session Title	CN SS-multimedia	Cluster Grid & Internet Security	ML	ML	IT	CV ML
15.10 - 15.30	ID-210 A Quality Analysis of DOCSIS Cable Modem	ID-82 Price Efficiency in High Performance Computing on Amazon Elastic Compute Cloud Provider in Compute Optimize Packages	ID-79 Auto-Tuning of Parameters in Hybrid Sampling Method for Class Imbalance Problem	ID-139 An Evaluation of Computational Intelligence in Credit Card Fraud Detection	ID-11 Slowloris mitigation techniques by double reverse proxy servers	ID-23 การวัดความหวานของสับปะรดโดยการประมวลผลภาพดิจิทัล
15.30 - 15.50	ID-212 Experimental Study of DVB-T2 in Thailand	ID-107 Implicit Effect of Decoding Time on Fault Tolerance in Erasure Coded Cloud Storage Systems	ID-89 Preliminary Study of Spam Profile Detection for Social Media using Markov Clustering: Case Study on Javanese People	ID-140 Trajectory Tracking using Sliding Mode Control for Autonomous Surface Vessel	ID-37 การพัฒนาแอปพลิเคชันบริหารจัดการหอพักเครือข่ายบนอุปกรณ์เคลื่อนที่	ID-171 การประมวลผลภาพ 360 องศาในงานพิสูจน์ตัวตน
15.50 - 16.10	ID-213 Study of UWB Indoor Localization Using Fingerprinting Technique with Different Number of Antennas	ID-42 P2 Algorithm and Adaptive AES Algorithm for Enhanced Data Security	ID-90 Cardinality-Constrained Portfolio optimization using An improved quick Artificial Bee Colony Algorithm	ID-149 Rock-Paper-Scissors with Myo Armband Pose Detection	ID-168 The Interaction between Game on Smart Phone and Child's Learning: A Case Study of K3 Students of Bangkok Christian College School	ID-3 Bisecting Genes in Genetic Algorithm

## Friday 16 December 2016, 15.10 - 17.10, Technical Parallel Session

	Parallel Session (13) E2-2A	Parallel Session (14) E2-2B	Parallel Session (15) E2-2C	Parallel Session (16) E2-2D	Thai Track (4) T2-2E	Thai Track (5) T2-2F
Session Title	CN SS-multimedia	Cluster Grid & Internet Security	ML	ML	IT	CV ML
16.10 - 16.30	ID-214	ID-58	ID-125	ID-151	ID-191	ID-4
	UWB Transmission Measurement and Modeling for Indoor Localization	Efficient Offline Micropayment Protocol for Multi-Vendor	Improving Pseudo-code Detection in Ubiquitous Scholarly Data Using Ensemble Machine Learning	Machine Learning for SQL Injection Prevention on Server-Side Scripting	A Design and Development of Training Game for Thai Language Skills	การปรับปรุงวิธีการคัดเลือกความหมายแฝงที่เหมาะสมที่สุดโดยใช้ขั้นตอนวิธีโบนารีพาร์ติเคิลสวอร์มออฟติไมเซชัน
16.30 - 16.50	ID-215	ID-59	ID-130	ID-159	ID-206	ID-38
	A New Method for Image Communication via Low Bit Rate Channel	Privacy-Preserving Offline Mobile Payment Protocol based on NFC	Opinion Representative of Cosmetic Products	Automatic Generation Control Using Particle Swarm Optimization based PID Controller for Multi Area Power System	Cyber Tourist: Analysis of IT-based Travel Behavior of Chinese tourists to Chiang Mai, THAILAND	การระบุอาการและอาการแสดงจากข้อความบอกเล่าอาการสำคัญภาษาไทยตามมาตรฐาน ICD-10 โดยขั้นตอนการประมวลผลภาษาธรรมชาติ
16.50 - 17.10		ID-112	ID-134	ID-190		ID-192
		A Secure Payment Protocol with Accountability Properties	Features Extraction to Improve Performance of Clustering Process on Student Achievement	Neural Network Training Model for Weather Forecasting Using Fireworks Algorithm		Design of PI-PD controller for brushless dc motor based on Genetic Algorithm

Saturday 17 December 2016

9.00 - 17.00

Research networking events

