REGISTRATION FORM

4th MSC Malaysia R&D Series and IP Connect 2010

Date : 21 December 2010 (Tuesday)
Time : 2.00pm – 4.30pm
Venue : Auditorium 7, Level 2, Sunway University College

The following persons will be attending the IP Connect session on **21 December 2010** on behalf of the Company:

Company Name: _____

No.	Name	Designation	NRIC No.	Mobile No.
1.				
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Please specify (√) which of the IP portfolio you are interested in:

Full name of company/institution	**Clarify Consulting Sdn Bhd**

No	Name of IP	Abstract	Please Select (√)
1	Mobile Augmented Reality (Patent)	A markerless mobile augmented reality based on 3D sparse tracking that allow interactive, 3D animated content to be augmented in any planar structure of real scene	

Full name of company/institution	**Sunway University College**

No	Name of IP	Abstract	Please Select (√)
1	Regionalized Hypermedia Social Networking Platform (ZMEDIA) (Copyrights) By Dr Lim Tong Ming, Dr Mike Ong, Chin Teck Min, Teh Chia Ching, Choong Yong Liang	Regionalized Hypermedia Social Networking Platform (ZMEDIA) ® uses the Peer-to-Peer (P2P) technology to create a large LCD Internet-based social networking platform by integrating conventional media broadcasting capability with full interactivity capacity through the use of handphone to chat, photo-taking and ordering of products/services by connecting to the all networked large LCD which equips with either Bluetooth or Wi-Fi connectivity. With the zero administrative nature Peer-to-peer Hierarchical architecture (P2PH) in its core, ZMedia is designed for the use of commercial and non-commercial organizations to broadcast information such as news, advertisements, pre recorded media files, business activities, announcements, and static images on all network-linked computer-attached LCD display units	

		(peer) using wired/wireless technologies.	
2.	Interactive Location Based Information Visualization System for Urban Activity in Kuala Lumpur (Copyrights) By Ahmed Mustafa Mahmoud, Dr Wan Haslina Hassan, Dr Lim Tong Ming	A city as large as Kuala Lumpur inhibits a population that is larger than what its transportation facilities can support. City inhabitants often suffer from long delay period and lower service quality linked to over congested highways and public transportation services during peek hours. Poorly informed user has a high probability of taking wrong decisions in the choice of the transportation means. The lack of real time information related to city dynamics such as traffic congestion worsens the situation. Another factor that contributes to this problem is the lack of coordination between the supply and the demand of buses and taxis that result in further reduction in the quality of the transportation system. The proposed system will gather real time information from multiple sources such as mobile devices locations obtained from mobile service providers and present these data in an interactive form that allows users to be better informed about the status of the city dynamics. The real time information will be presented to the city inhabitant using various methods that includes public large screens, handled internet enabled devices and any other electronic device with internet connection. Both of the presentation queries its data using the internet on regular periodic basis in order to ensure the reliability and consistency of data. The real time information improves the knowledge of city inhabitant about the state of the urban activity during a certain time. Better informed users have higher chances in avoiding traffic congestion and choosing less congesting public transportation paths. As the system usage increases, the cumulative effect of the real time information provided to city inhabitants might improves the actual efficiency of the traffic and public transportation facilities.	
3.	Bus Tracking Using Global Positioning Satellite (GPS) and 3G networks (Copyrights) By Daniel Leow, Lyon Laxman, Terence Le Grange	Indeterminate bus arrival times cause poor quality of service to public commuters in the Bandar Sunway area. An innovative solution to use real-time GPS data over broadband has been developed in order to solve this problem. Historical data is used to determine the estimated arrival time, taking into consideration traffic conditions based on the time of day, and weather conditions. These are taken into consideration due to the impact on road traffic and subsequently the arrival times of public transport. Integration with external weather services provides this data in real-time. The framework developed to solve this problem assists commuters in decision-making using an interactive public display system and is publicly available through an open framework of web services. The results of this research indicate a substantial improvement in estimating arrival times using the methods highlighted.	
4	**Agent Bases Mobility Protocol (AMP)** **(Copyrights)**	This novel network mobility management protocol (AMP) that has been proven to surpass the performance of the existing mobile IPv4 and mobile IPv6 protocols (RFC 3220 & 3775); has been designed and implemented by	

	By Dr Wan Haslina Hassan	Dr. Wan Haslina who is the lead researcher in the mobile networking research group. Mobility is afforded by the degree of intelligence or control mechanism in the network for mobility management. In cellular architectures, intelligence is explicitly integrated into the core network resulting in an efficient service with low latencies but a complex architecture with high deployment and operational costs. The Internet's approach for mobility (IETF's Mobile IP) is simpler with intelligence placed in end-systems and certain specialized nodes, conforming to the Internet's principle of the end-to-end argument. However, the drawbacks include latencies and packet loss, which have hindered its wide-scale deployment. The research proposes to address these perplexities by using an approach that takes advantage of both the above. The main objective is to develop an architecture that exhibits dynamism and improved IP-based mobility but without added complexity in the core whilst preserving application- and lower-layer transparency. The proposed architecture, called agent-based mobility protocol (AMP) is a collaborative multi-agent system residing in the mobile host and access networks that facilitates and expedites location and handover management.	

Full name of company/institution	**Universiti Putra Malaysia (UPM)**

No	**Name of IP**	**Abstract**	**Please Select (√)**
1	Method and System for Computerized Creation, Maintenance and Querying of Internet Based Multi-Attribute Dynamic Object Rating System Prof. Dr. Mohamed Daud	The present invention relates to a method and system for computerizes creation, maintenance and querying of an Internet-based multi-attribute dynamic object rating system. An Internet-based ecotourism-site rating expert system was developed using this multi-attribute dynamic object method. He rating system takes into consideration the many types of ecotourism categories, facilities and activities available at the ecotourism sites. Various levels of compliance such as site safety, health, environmental and quality of services will determine the rating of the site. Group of parties may use this online system to rate an object, for example ecotourism site. Such parties may include visitors, site operator or moderator, and ecotourism auditors. The ratings produced using this system is very transparent because all the scores given by the three groups of people can be made available to the public. The rating system includes a means to create multi-attributes of the system, a means to use the multi-attributes and a means for the maintenance of the multi-attributes	
2	PIC Multi-user Receiver for Multi-rate Combined CDMD and SDMA Systems Dr. Alyani Ismail	The present invention generally relates to wireless mobile communication and in particular to combined CDMA and SDMA (C-SDMA) system as a multiple access technique. More particularly, the present invention relates to a method to mitigate the interference accrued due to cross-	

		correlations in terms of spreading codes and spatial correlations in terms of Angle of Arrival (AoA). Interference mitigation is performed using Parallel Interference Cancellation (PIC) by which the invented receiver estimated the interference from interference user and then cancel this interference from the desired user in parallel scenario. This interference mitigation is able to maximize the channel capacity (maximize the number of users) by means of reducing the Bit Error Rate (BER) and system capacity. This is done with minimum number of codes, less delay and less complexity compared to other existing techniques.	
3	Ultra-Wide BandPass Filter Dr. Alyani Ismail	A bandpass filter for ultra-wide band communication comprising: a U-shaped transmission line (59a, 59b, 59c) defined by a first arm (59a) with a first end and a second arm (59c) with a second end vertically extending from a base (59b); an input port (57) located at the first end; an output port (58) located at the second end; and a plurality of stubs (51, 52, 54, 55) connected to the first arm (59a) and the second arm (59c) and configured in such a manner that sharing of vias (56, 60) which are mounted at the end of the stubs (51, 52, 54, 55) is allowed.	
4	An Enhanced Secured Mobile IPv6 with Multicast Function and Hierarchical Design Prof. Dr. Borhanuddin Mohd Ali	The proposed handover scheme according to the present invention is an enhancement of the existing Mobile IPv6 protocol; it integrates hierarchical concept and multicast function. hierarchical design was used to shield the micro mobility from macro mobility in order to reduce location update signal and signaling traffic within micro level network while multicasting is used to send packets to mobile node through base station that are near to mobile node. This will reduced handover delay that causes packet lost when mobile node is roaming. The proposed security scheme is extended enhancement of the existing Mobile IPv6 security protocol. It can detect Man-Int-The-Middle attacks or attacks against data and then prevent them. Each mobile node can trust itself to check whether the connection is secured or not. It is done by requesting the receiver or server to return some selected packet to compare with the original generated. In this method, it is proposed to use encryption if any attack is detected so is not increase the delay.	
5	Client / Server Architecture Having A Dynamic and Transparent Middle Tier Prof. Dr. Borhanuddin Mohd Ali	There is disclosed a client / server digital computing network architecture that works in a three-tier environment and having a dynamic middle-tier configuration. In the three-tier architecture of the present invention, a middle tier is added between the user (client) and the central server. The middle-tier is adapted to be dynamic for flexibility to handle a large number of users and to address the issues of bandwidth utilization and network congestion in an efficient, effective and transparent manner. In the present invention, a client workstation is selected to be dynamic proxy where a Dynamic Application Proxy Server (DAPS) within the client workstation is adapted to handle and serve request from subsequent remote clients on behalf of the central server, and provides the only connection to a Server Application in a central server. This invention effectively	

		delegates all client request to the DAPS while freeing the central server to conduct other more specific operation.	
6	Computer Science and Information Technology Assoc. Prof. Dr. Ramlan Mahmod	The present invention provides a system and method of transforming text into image for information hiding. The present invention approaches the steganographic problem with respect of a passive warden and it also considering the threats of active attack by active warden to which the robustness of the stego-object is concerned. Accordingly,the present invention provides a system and method of transforming text into image for information hiding which applies cover generation techniques to evade detection, it enables to carry useful amount of information and at the same time survives active attack that can be jeopardized the information it carries.	
7	System and Method For Data File Upload Over A Communication Network Dr. Syed Abd. Rahman Al-Hadad Syed Mohamed	The present invention provides the solution of using facsimile device as the uploading tool to upload database into internet remotely and automatically. This invention utilizes the remote and scanning function of facsimile to carry out the database-uploading job automatically. This invention focuses on duplicating the original document on the client side and displaying its contents directly in the Internet. This should provide efficiency and convenience for anyone who wants to upload fax contents into the Internet without mastering the aspect of technical knowledge. This invention integrates two popular devices: personal computer and facsimile and utilizes telephone line as the transmission medium.	

Full name of company/institution	**Telekom Research & Development Sdn Bhd (TM R&D)**

No	Name of IP	Abstract	Please Select (√)
1	New, lightweight Medium Access Control (MAC) for Point to multipoint(PMP) WiFi Network WEBS II Patent PI2110000146	TDMA protocol is allow WiFi (with random access feature) to work as point-to-multipoint (PMP) technology. TDMA will allow each station in the network to have time slot to send it is data rather than Carrier sense multiple access with collision avoidance protocol that WiFi provide. the new protocol provides many features to WiFi i.e. capable for long distance (more than 5 km), quality of services and throughput.	
2	Method and Framework for Test Automation in an Embedded Networking System that support multiple Operating Systems and platforms IEEE 802.11N Wireless Base Station (WEBS) Patent PI20084254	The framework is designed in modular method that allows users to select any test cases within the modules. The system will automatically test pre-defined test cases, the system stability, and collect the performance of the networking system under test. The results will be versioned, time-stamped, and logged into the database for reference. The framework is design to ease the test and validation of the embedded network system specifically a router and a wireless access point.	

3	Method and Architecture for Efficient and Low Complexity Digital Front-End Transceiver of Software Radio System. Carrier Grade Digital Microwave Link Patent PI20094385	This invention offers method and design architecture to implement efficient and low complexity digital front-end transceiver of software radio system using FGPAs or digital signal microprocessors	
4	Method, system and program to design and simulate two's complement fixed-point signal processing digital hardware system in independent floating-point design entry and simulation platform Carrier Grade Microwave Link Patent PI20064791	The invention provides a design method, a system to implement the method and a program algorithm to model and design signal processing digital hardware system in single independent floating-point design entry and simulation platform.	

By submitting this form, the Company and each of the related individuals/representatives hereby agree to the Term and Conditions attached in the Appendix hereto ("**Conditions**").

Signature/Company Stamp: _____ ***Date:*** _____

Submitted by: _____ ***Designation:*** _____

Appendix
(Conditions)

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