出國報告（出國類別：參加國際會議）

參加 The 19th IEEE International Conference on Parallel and Distributed Systems (ICPADS)會議

服務機關：國立中央大學

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派赴國家： 韓國

出國期間： 102 年 12 月 14-18 日

報告日期： 103 年 5 月 12 日

目的:

參加 The 19th IEEE International Conference on Parallel and Distributed Systems (ICPADS)會議

過程:

本次至韓國首爾參加 The 19th IEEE International Conference on Parallel and Distributed Systems (ICPADS 2014)，除發表論文外，本人並擔任 The 1st International Workshop on Internet of Things Technologies (IoTT2013)議程主席 (Program Chair)，分配審稿委員並決定所有 IoTT 2013 接受稿件。IoTT 2013 共接受 14 篇論文，分為二個 session，在 102 年 12 月 15 日上午發表，其明細如下:

Session 1: Grids, Smart Grids, VANETs, Algorithms, and Location-based Services for IoT

Chair: Dr. Leow Chee Yen, Universiti Teknologi Malaysia, Malaysia

(9:00-10:30, Room 308A)

1. Challenges of Using Edge Devices in IoT Computation Grids, Arpan Pal, Arijit Mukherjee, Swarnava Dey and Himadri Sekhar Paul

2. Coexistence of Heterogeneous and Homogeneous Wireless Technologies in Smart Grid-Home Area Network, Mohd Adib Sarijari, Anthony Lo, Mohd Sharil Abdullah, Sonia Heemstra de Groot, Ignas Niemegeers and Rozeha A. Rashid

3. Overhead Reduction for Duplicate Address Detection in VANET, Kuan-Lan Tseng and Tsan-Pin Wang

4. LocalSense: An Infrastructure-Mediated Sensing Method for Locating Appliance Usage Events in Homes, Yao-Chung Fan

5. Virtual Coordinate Based Co-moving Detection in Wireless Sensor Networks, Wei-Hua Chen, Guey-Yun Chang and Jen-Feng Huang

6. Energy Saving Data Abstraction and Reformation Algorithms for Human Movement Monitoring, Toni, Hock Guan Goh and Soung Yue Liew

7. Genetic Algorithm Based Weight Optimization for Minimizing Sidelobes in Distributed Random Array Beamforming, S. Jayaprakasam, S.K.A. Rahim, Leow Chee Yen, and K.R. Ramanathan

Session 2: Protocols, Deployment, Device Designs, and Applications for IoT

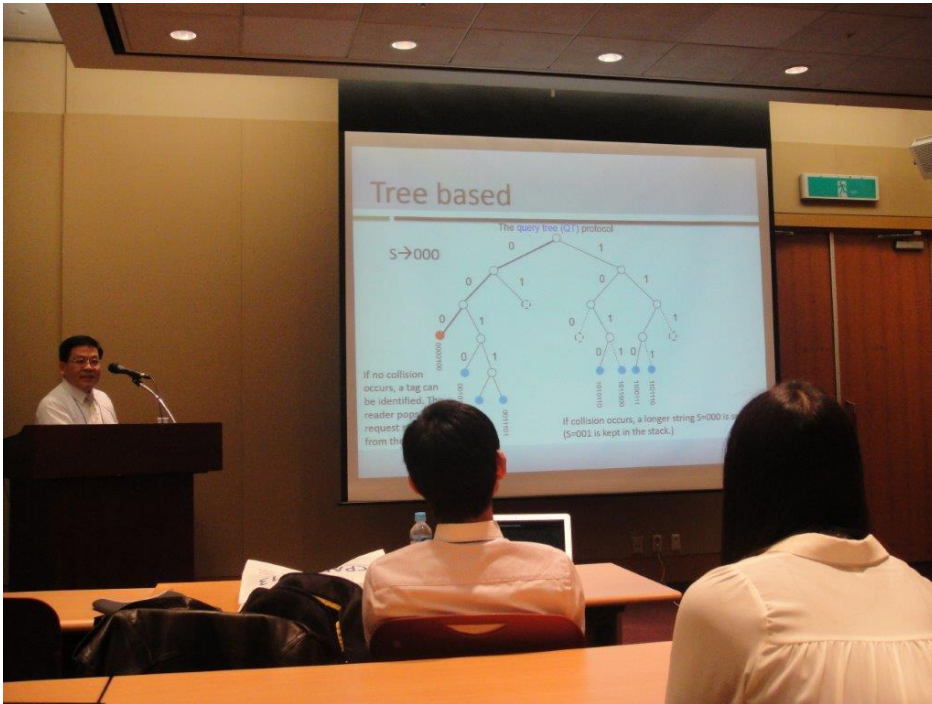Chair: Dr. Chung-Ta King, National Tsing Hua University, Taiwan

(11:00-12:30, Room 308A)

1. On Deploying IoT Indoor: An Incremental Approach, Nguyen Vo Quang Dong and Chung-Ta King

2. Social Web of Things: A Survey, Tein-Yaw Chung, Ibrahim Mashal, Osama Alsaryrah, Huy Van, Wen-Hsing Kuo and Dharma P. Agrawal

3. Design and Implementation of Media Content Sharing Services over Home-based IoT Networks, Chih-Lin Hu, Hung-Tsung Huang, Cheng-Lung Lin, Nguyễn Hữu Minh Anh, Yi-Yu Su and Pin-Chuan Liu

4. RFID Vehicle Plate Number (E-Plate) for Tracking and Management System, Evizal, Tharek Abd Rahman, and Sharul Kamal Abdul Rahim

5. A Novel Query Tree Protocol Based on Partial Responses for RFID Tag Anti-Collision, Ming-Kuei Yeh and Jehn-Ruey Jiang

6. Hardware Implementation of Math Module based on CORDIC Algorithm using FPGA, Muhammad Nasir Ibrahim, Kean Tack Chen, Mariani Idroas, Siti Noormaya Bilmas and Zuraimi Yahya

7. A Feasibility Study on Developing IoT/M2M Applications over ETSI M2M Architecture, Fuchun Joseph Lin, Yi Ren, and Eduardo Cerritos

以下照片為主持 IoTT 2013 會議的開場情形:

以下照片為論文發表的情形:

以下照片為會議主要參與者(論文作者與議程委員等)在會議後合照的情形:

心得:

本次會議安排兩場 keynote speech，第一場由 Kang G. Shin 教授主講，講題為"On Fault Resilience of Cloud Computing"，說明如何加強雲端系統的順應外部變化能力。第二場由 Joseph Curley 博士主講，講題為"The Architecture for Discovery in a Parallel Universe"，說明如何增加電腦架構的平行程度。二場演講均提及許多發人深思的論點。

建議事項:

建議政府加強補助教授在國際間主辦國際會議或參加國際會議發表論文，以增廣教授見聞並同時增加國家的能見度。

攜回文件:

IoTT 2013 接受論文可以由 http://acnlab.csie.ncu.edu.tw/IoTT2013/program.html 下載

心得:

本次會議安排兩場 keynote speech，第一場由