

出國報告（出國類別：國際會議）

參加 2016 應用系統創新國際研討會
論文發表

服務機關：國立高雄應用科技大學

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派赴國家：日本

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摘要

2016年國際應用系統創新會議(2016 IEEE International Conference on Applied System Innovation (ICASI 2016))，於2016年五月28日~6月1日，在日本沖繩舉辦，為期五天。論文投稿於會議的 **Communication Science & Engineering** 主題，發表會議論文編號為：0433，主題為：“A Precise Handover Algorithm for Wireless Communication Networks on High-speed Mobile Environment”。會議論文分為海報發表及口頭報告發表，本論文為口頭報告發表，發表時間為5/29日下午14:30~15:30，口頭報告15分鐘。會議期間並安排四場的 Keynote Speech，聆聽國際級大師演講。本論文發表結果最後獲得 Best Conference Paper 的殊榮。

關鍵詞：國際會議、ICASI、Keynote Speech

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一、目的

此行的目的是參加 2016 年國際應用系統創新會議(2016 IEEE International Conference on Applied System Innovation (ICASI 2016))，於 2016 年五月 28 日~6 月 1 日，在日本沖繩舉辦，為期五天。將為在廣域的主題從資訊技術、創新設計、通信科學工程、工業設計、創意設計、應用的數學、電腦科學、設計理論、電氣電子工程機械、自動化工程、綠色技術建築工程、材料學等相關領域研究者，提供統一的通信平臺和文化的創造性研究。參與本會的嘉賓有來自業界、學術界和政府專業人員鼓勵對研究和發展、專業實踐、業務和管理的資訊中，創新、通信和工程領域。這次會議充分展現科學和工程技術人員在學術和工業領域以及國際聯網之間的跨學科合作。會議期間有豐富的介紹和討論的時間。出席者將藉由各種活動彙集形形色色的工程師和技術人員從跨學科生成的新的想法、合作潛力和商機。

二、過程

本次會議舉行在沖繩會議中心 (OCC)。OCC 公司位於海濱地區，宜野灣市，在沖繩島中部西海岸。配置有劇場、展覽廳和 12 間大、小會議室，是沖繩最大的多功能建築群。

會議中個人所發表的主題為：在高速移動的行動網路下一種精準的換手演算法，內容摘要如下：

由於高速造成嚴重的多普勒頻率偏移效應、換手失敗和頻繁的非必要換手。使得無線通信系統中，由高速引起的效應降低了穩定性。在本論文中採用了基於載波頻率偏移估計的演算法，改善系統換手效能。模擬結果顯示，本論文所提的方法，在時速三百公里中，比起傳統方法增加十倍效能。有效改善高速移動的行動網路下無線通信系統的可靠性和信賴度。

報告後，並有淡江大學電機工程系助理教授李光啟，針對本論文所提的方法提問，並與之充分討論，說明本論文未來的進展。

三、心得及建議事項

本次會議內容豐富受益良多，會議地點環境優雅，是一場成功的國際研討會，未來將積極參與本議程之研討會。

附錄

現場報到



現場報到



口頭報告實況



口頭報告實況



會場外觀



Keynote Speech



Conference Agenda

Venue: Okinawa Convention Center, 4-3-1 Mashiki, Ginowan City Okinawa 901-2224, Japan

Language: English

Pre-Conference Schedule		
Saturday, May 28, 2016		
2:00pm	6:00pm	Sponsor Showcase (Grand Ballroom)
4:00pm	8:00pm	Early Conference Registration and Conference Information Collection (Reception Hall)

Main-Conference Schedule		
Sunday, May 29, 2016		
8:00am	9:00am	Conference Registration and Conference Information Collection (International Conference Room, Building A1)
9:00am	10:00am	Opening Ceremony (International Conference Room, Building A1)
10:00am	10:50am	Keynote Speech 1 (International Conference Room, Building A1)
10:50am	11:10am	Coffee Break
11:10am	12:00am	Keynote Speech 2 (International Conference Room, Building A1)
12:10am	1:30pm	Lunch (Ballroom)
1:30pm	5:30pm	Poster session of ICASI 2016, P1, P2, P3, P4
1:30pm	2:20pm	Keynote Speech 3 (International Conference Room, Building A1)
2:30pm	3:20pm	Keynote Speech 4 (International Conference Room, Building A1)
1:30pm	2:30pm	Breakout Sessions of ICASI 2016, Oral 1, Oral 2 (International Conference Room, Building A2 and A3)
2:30pm	3:30pm	Breakout Sessions of ICASI 2016, Oral 3, Oral 4 (International Conference Room, Building A2 and A3)
3:30pm	4:30pm	Breakout Sessions of ICASI 2016, Oral 5, Oral 6, Oral 7 (International Conference Room, Building A1, A2 and A3)
4:30pm	5:30pm	Breakout Sessions of ICASI 2016, Oral 8, Oral 9, Oral 10 (International Conference Room, Building A1, A2 and A3)
6:00pm	8:00pm	Conference Dinner (Ballroom)
8:00pm	9:30pm	Breakout Sessions of ICASI 2016, Oral 11, Oral 12, (International Conference Room, Building A2 and A3)

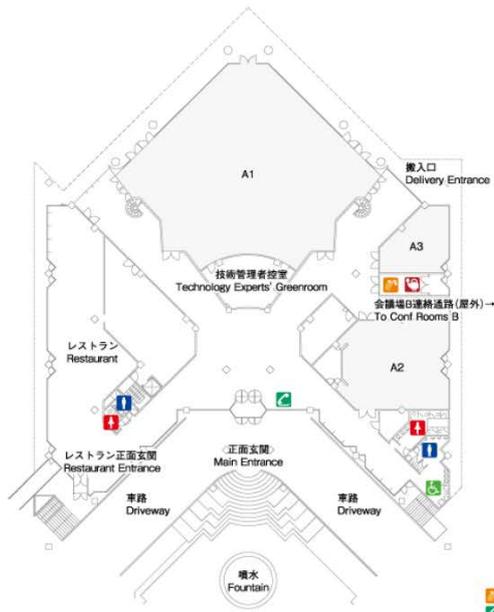
Main-Conference Schedule		
Monday, May 30, 2016		
8:00am	9:00am	Conference Registration and Conference Information Collection (International Conference Room, Building A2)
9:00am	10:00am	Breakout Sessions of ICASI 2016, Oral 13, Oral 14, (International Conference Room, Building A2 and A3)
10:00am	11:00am	Breakout Sessions of ICASI 2016, Oral 15, Oral 16, (International Conference Room, Building A2 and A3)
9:00am	4:30pm	Poster session of ICASI 2016, P5, P6, P7, P8
10:40am	11:00am	Coffee Break
11:00am	12:00am	Breakout Sessions of ICASI 2016, Oral 17, Oral 18 (International Conference Room, Building A2 and A3)
12:10pm	1:30pm	Lunch (Ballroom)
1:30pm	2:30pm	Breakout Sessions of ICASI 2016, Oral 19, Oral 20 (International Conference Room, Building A2 and A3)
2:30pm	3:30pm	Breakout Sessions of ICASI 2016, Oral 21, Oral 22 (International Conference Room, Building A2 and A3)
3:30pm	4:30pm	Breakout Sessions of ICASI 2016, Oral 23, Oral 24 (International Conference Room, Building A2 and A3)
4:30pm	5:30pm	Breakout Sessions of ICASI 2016, Oral 25, Oral 26 (International Conference Room, Building A2 and A3)
6:00pm	8:30pm	Conference Dinner (Ballroom)
7:00pm	8:30pm	Breakout Sessions of ICASI 2016, Oral 27, Oral 28 (International Conference Room, Building A2 and A3)

Main-Conference Schedule		
Tuesday, May 31, 2016		
8:00am	9:00am	Conference Registration and Conference Information Collection (International Conference Room, Building A2)
9:00am	10:00am	Breakout Sessions of ICASI 2016, Oral 29, Oral 30, (International Conference Room, Building A2 and A3)
10:00am	11:00am	Breakout Sessions of ICASI 2016, Oral 31, Oral 32, (International Conference Room, Building A2 and A3)
9:00am	11:50am	Poster session of ICASI 2016, P9, P10,
10:40am	11:00am	Coffee Break
11:00am	12:00am	Breakout Sessions of ICASI 2016, Oral 33, Oral 34 (International Conference Room, Building A2 and A3)
12:10pm	1:30pm	Lunch (Ballroom)
1:30pm	2:30pm	Breakout Sessions of ICASI 2016, Oral 35, Oral 36 (International Conference Room, Building A2 and A3)
2:30pm	3:30pm	Breakout Sessions of ICASI 2016, Oral 37, Oral 38 (International Conference Room, Building A2 and A3)

3:30pm	4:30pm	Breakout Sessions of ICASI 2016, Oral 39, Oral 40 (International Conference Room, Building A2 and A3)
4:30pm	5:30pm	Breakout Sessions of ICASI 2016, Oral 41, Oral 42 (International Conference Room, Building A2 and A3)

Main-Conference Schedule		
Wednesday, June 1, 2015		
8:00am	9:00am	Conference Registration and Conference Information Collection (International Conference Room, Building A, A2)
9:00am	12:00am	Sponsor Showcase (Ballroom)

Facility detail view



【会場A1】 Conference room A1
シアター型式300席
theater seating 300

【会場A2】 Conference room A2
シアター型式105席
theater seating 105

【会場A3】 Conference room A3
シアター型式20席
theater seating 20

ロの字形式196席
hollow sq. seating 196

ロの字形式40席
hollow sq. seating 40

ロの字形式16~20席
hollow sq. seating 16-20 seats

自動販売機 : Vending Machine
 公共電話 : Pay Phone
 給湯室 : Kitchen
 お手洗い : Toilets
 しょうがい者専用お手洗い : Toilets for Disabled



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For the paper:

0433

**A Precise Handover Algorithm for Wireless Communication Networks on
High-speed Mobile Environment**

Handwritten signature of Prof. Teen-Hang Meen.

TIKI President
Prof. Teen-Hang Meen
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The Taiwanese Institute of Knowledge Innovation