

鄭瑞光 Ray-Guang Cheng



國立台灣科技大學電子系助理教授

Assistant Professor, Department of Electronic Engineering,
National Taiwan University of Science and Technology

學歷/Education :

- **BS:** Communication Engineering, National Chiao Tung University, 1991
- **MS:** Communication Engineering, National Chiao Tung University, 1993
- **PhD:** Communication Engineering, National Chiao Tung University, 1996

經歷 :

- **達宙通訊系統公司, 2000.12~2003.7**
 - 經理, 2001.8~2003.7
 - 主任, 2000.12~2001.7
 - 3G UTRAN 計畫通訊協定技術分項計畫負責人、3GPP 標準組織 BenQ 集團代表、BenQ 專利諮詢委員、CMMI (Capability Maturity Model Integration) 工程流程小組成員
- **工研院電通所前瞻技術中心, 1997.10~2000.11**
 - 寬頻行動通訊協定技術子計畫負責人, 1999.10~2000.11
 - 研究員, 1997.10~1999.9
 - 3GPP 標準組織電通所代表、電通所專利審查委員、Telcordia 訪問研究員、參與台灣大哥大基地台設置及系統優化作業
- **交通大學資訊工程系兼任助理教授, 1999.2~2000.7**
- **師範大學資訊教育學系兼任助理教授, 1998.9~1999.1**

Working Experience:

- **BenQ Mobile System Inc., 2000.12~2003.7**
 - Senior Manager, 2001.8~2003.7
 - Manager, 2000.12~2001.7
 - Project Leader of Protocol Technology for 3G UTRAN Project、Authorized Representative of BenQ Corp. for 3GPP、Patent Consultant of BenQ、Member of EPG (Engineering Process Group) for CMMI (Capability Maturity Model Integration) Level 2 Implementation
- **Advance Technology Center, CCL/ITRI, 1997.10~2000.11**
 - Projector Leader, Broadband Wireless Communication Protocol Technology, 1999.10~2000.11
 - Researcher, 1997.10~1999.9
 - Authorized Representative of CCL, ITRI for 3GPP、Patent Reviewer、Visiting Researcher, Telcordia (formerly Bellcore)、GSM Base Station Installation and Network Optimization
- **Adjunct Assistant Professor, Department of Computer Science and Information Engineering, National Chiao-Tung University, 1999.2~2000.7**
- **Adjunct Assistant Professor, Graduate Institute of Computer Science and Information Engineering, National Normal University, 1998.9~1999.1**

主要研究領域：行動網路、寬頻網路、效能分析、網路規劃與管理

Major Research Areas: Mobile Networks, Broadband Networks, Performance Analysis, Network Planning and Network Management

研究領域摘要：

鄭瑞光最近之研究領域包括 WCDMA 網路的無線資源管理、無線區域網路效能分析、低功耗無線通訊協定設計，以及 WLAN 與 3G 互聯相關技術等。GPRS/WCDMA 相關通訊協定的設計與效能分析也是其研究一部分。

鄭瑞光在行動通訊產業具有豐富的經驗，曾參與 GSM 基地台設置及系統優化、並投入 GPRS 與 WCDMA 相關領域的手機與基地台系統相關設備研發工作，研究的方向將著重於無線通訊終端與系統之設計與建置的實際問題。

Research Summary:

Recent research areas of Dr. Cheng include radio resource management (RRM) of WCDMA, performance analysis of Wireless LAN, designing of low-power protocol for wireless network, and the WLAN/3GPP System interworking technology. The implementation issues and performance analysis of GPRS/WCDMA protocol are also included in his research.

Dr. Cheng has rich experience in the mobile communication industry. He has involved in the deploying of GSM network, designing and implementing of GPRS and WCDMA handsets as well as Base Stations. In the near future, his research will focus on the implementation issues of the design and installation of mobile communication system.

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