

# **RESUME**

## **Mubashir Husain Rehmani**

Casier N°: 85/2/7, Residence CESAL,  
Supélec, Plateau de Moulon, 1 Rue Joliot-Curie,  
91192, Gif-sur-Yvettes, France.

Contact No. +33632008935

E-mail: [mubashir.rehmani@lip6.fr](mailto:mubashir.rehmani@lip6.fr)  
[mubashir.rehmani@inria.fr](mailto:mubashir.rehmani@inria.fr)

Webpage : <http://www-npa.lip6.fr/~rehmani/>  
<http://www.irisa.fr/asap/Members/mrehmani/Mubashir>

### **EDUCATION**

#### **Since 2008 Ph.D Student**

Location Laboratoire d'Informatique de Paris (LIP6), Université Pierre et Marie Curie (UPMC)/Universté Paris VI, France.  
Topic Opportunistic Forwarding in Cognitive Radio Networks.  
Advisor Dr. Aline Carneiro Viana and Prof. Serge Fdida.  
Date Oct 2008 – Oct 2011 (expected)

#### **2008 M2R Masters by Research in Networks and Telecommunications**

Location Laboratoire de System et Signaux (L2S), Supélec, and Universté de Paris-Sud XI, France.  
Thesis Decoupling Data Dissemination from the Mobile Sink Trajectory in Wireless Sensor Networks: Current Research and Open Issues.  
Advisor Dr. Aline Carneiro Viana and Prof. Pierre Duhamel  
Date July 2008

#### **2004 Bachelor of Engineering (B.E) in Computer Systems Engineering**

Location Mehran University of Engineering and Technology, Pakistan.  
Thesis Geographical Information Systems as a Decision Making Tool.  
Advisor Arbab Ali Samejo  
Date Dec 2004

#### **2000 F.Sc in Pre-Engineering**

Location Government National College, Pakistan.  
Board Board of Intermediate Education, Karachi.

#### **1998 HSC in Science**

Location Gulshan-e-Iqbal Secondary School, Pakistan.  
Board Board of Secondary Education, Karachi.

## AWARDS & SCHOLARSHIPS

- Four (4) years full time PhD funding by both the Government of Pakistan and Government of France.
- Meraj Khalid Award for the promotion of Science and Technology in Pakistan in year 2006.

## CURRENT RESEARCH ACTIVITIES

Opportunistic Forwarding in Cognitive Radio Networks

## RESEARCH INTERESTS

- Self Organizing Networks (Cognitive Radio Networks, Mobile Ad Hoc Networks, Wireless Sensor Networks).
- Opportunistic Networks.
- Delay Tolerant Networks.

## RESEARCH TRAINING (INTERNSHIPS)

**Title: Self-organized data storage in Wireless Sensor Networks with mobile sinks**

**Responsible:** Aline Carneiro Viana (ASAP Team, INRIA, France)

**Duration:** March 2008 – August 2008 (6 Months)

**Location:** ASAP Team, INRIA, France.

**Details:** This internship research focuses on the principles underlying the design of data aggregation mechanisms in WSNs with mobile sinks. Our main goal here are: (1) to extend network lifetime and to evenly spread the load over the network by aggregating collected data in some selected storage nodes, and (2) to improve data availability by replicating aggregated data in some closer to selected storage nodes.

**Title: GIS as a Decision Making Tool**

**Responsible:** Masood Alam Farooqui, Deputy General Manager (DGM), GTI.

**Duration:** July 2004- Dec 2004 (5 Months)

**Location:** GTI, Sui Southern Gas Company SSGC, Karachi Terminal, Pakistan.

**Details:** This internship research focuses on Geographical Information System (GIS), in which I created GIS based on Map Info and Arc View. The two sites were Kotri Site Area and River Indus Delta.

## CERTIFICATIONS

### IELTS

Date: 11<sup>th</sup> March 2006

Test Report Form Number: 05PK002838REHM010A

Listening	Reading	Writing	Speaking	Overall Band
7.0	6.0	7	6	6.5

<b>DELTA</b>	Alliance Française de Karachi.
<b>MCSE</b>	CTTC Karachi, Preparing for Online Exams
<b>CCNA</b>	CTTC Karachi, Preparing for Online Exams

## PUBLICATIONS

### **Poster:**

- Mubashir Husain Rehmani, Aline Carneiro Viana, Hicham Khalife, and Serge Fdida, "*Adaptive and Occupancy-based Channel Selection for unreliable Cognitive Radio Networks*", Rencontres Francophones sur les Aspects Algorithmiques des Télécommunications (ALGOTEL) 2009, du 16 au 19 juin 2009, Carry Le Rouet, France. ([Abstract](#)), ([Poster](#))

### **Thesis**

- Mubashir Husain Rehmani and Aline Carneiro Viana (Advisor), *Decoupling Data Dissemination from the Mobile Sink Trajectory in Wireless Sensor Networks: Current Research and Open Issues*, Masters Thesis, Laboratory of Signals and Systems, Supelec and University of Paris Sud-11, July 2008. [pdf](#)
- Mubashir Husain Rehmani and Arbab Ali Samejo (Advisor), *Geographical Information System as a Decision Making Tool*, Bachelor of Engineering Thesis, Mehran University of Engineering and Technology, Jamshoro, Pakistan, December 2004.

## PROFESSIONAL EXPERIENCE

### **S. G Fiber : (1 Year Experience)**

Work as a Asst. Network Engineer from 11th March 2005 to Feb 2006.

- Network Monitoring & Troubleshooting.
- Report Generation in AS/400 and convert it into Microsoft Environment.

### **Computer Projects:**

- Design & Implementation of Geographic Information System using MapInfo and ArcView.
- Database designed for Gulshan-e-Iqbal Secondary School, Gulshan-e-Iqbal, Karachi Using VB and Oracle database.

## NETWORKING & ADMINISTRATIVE SKILLS

- Installing, Configuring and Administering Microsoft Windows Xp Professional and Windows 2003 Server.
- Network Administration Skills.
- Implementing, Managing, Monitoring and Troubleshooting Hardware Devices and Drivers.
- Ability to install, configures, and maintains networks and related hardware and software.
- Monitoring and Optimizing System Performance and Reliability.
- Implementing, Managing and Troubleshooting Network Protocols and Services like TCP/IP and IIS.
- Configuring, Managing and Troubleshooting Security.
- Able to work on TCP/IP, DNS, DHCP, RIS, NAT, RIP, WINS, ICS, SUS, RAS.
- Configuring and Managing Remote Access through Dial Up Networking and VPN.
- Able to work on Active Directory.
- Able to work on Internet Security and Acceleration (ISA) Server.
- Implementing Group Policy Objects (GPO)

## COMPUTER SKILLS

### SIMULATORS:

- Network Simulator NS-2

### LANGUAGES :

- MS Visual Basic 6, C++

### DATABASE SYSTEMS :

- Oracle SQL
- Teradata

### GEOGRAPHIC INFORMATION SYSTEMS SOFTWARES

- Arc View
- Map Info

## PERSONAL INFORMATION

<b>Father's Name:</b>	M. MAZHAR HUSAIN REHMANI.
<b>Date of birth:</b>	23-02-1983
<b>Nationality:</b>	Pakistani
<b>Domicile:</b>	Malir District, Karachi (Urban), Sindh
<b>Proficient Languages:</b>	English, French, Urdu, Sindhi
<b>N.I.C:</b>	42000-0385270-5
<b>Passport N°:</b>	AL9152701
<b>Pakistan Engineering Council N°:</b>	COMP/3424
<b>Permanent Postal Address:</b>	D-9 Esquire Shoppers Plaza, Abul Hasan Isphani Road , KDA Scheme-33, Karachi 75330, Pakistan.
<b>Permanent Phone:</b>	+92-21-4647545