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# MD. OMAR FARUQUE SARKER

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<http://ril.newport.ac.uk/sarker/index.php>

**RESEARCH INTEREST:** Multi-Robot Systems,  
Computer Vision, Swarm Robotics, Distributed AI.

Robotics Intelligence Lab,  
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## ACADEMIC BACKGROUND

### PH.D By Research (Tech) (2007.11 – Present)

University of Wales, Newport, UK

EPSRC funder research project (EP/E061982/1)

Defying the Rules -How Self -Organizing Systems Work.

### MSc. HCI and Robotics (2005 – 2007)

Korea Institute of Science and Technology / University of  
Science and Technology (Average: 4.17/4.5)

### BSc. in Mech. Engg. (1999-2005)

Bangladesh University of Engineering and Technology  
(Average: 3.11/4)

### GRADUATE COURSES:

Human Machine Interaction, Intelligent Control, Mobile  
Robotics, Computer Vision Advanced Symbolic AI  
Techniques, Information Security

### MSc. COURSE PROJECTS:

Feature Extraction and Path Planning for Mobile Robot  
Skin Color Based Image Segmentation and Human Face  
Detection  
Developing a UPnP Based Intelligent Home Control  
Application

### UNDERGRADUATE ELECTIVE COURSES:

Mechatronics, Bio-Engineering

## PROFESSIONAL EXPERIENCE

### VISITING RESEARCH SCIENTIST/

#### RESEARCH ASSISTANT (2005.09 – 2007.10)

KIST- IRRC, Bio-mimetic Control System Lab  
(<http://saturn.kist.re.kr>)

#### PROJECT ENGINEER (2005 .05– 2004.10)

BUET- Institute of Information and Communication  
Technology (<http://www.buet.ac.bd/iict/>)

#### NETWORK ENGINEER (PART-TIME, 2004.07–2004.06)

BUET- Institute of Information and Communication  
Technology (<http://www.buet.ac.bd/iict/>)

#### SYSTEMS ENGINEER (PART-TIME, 2004.09 – 2004.05)

Ektoo Limited (<http://www.ektoo.net/>)

#### ASSOCIATE EDITOR (PART-TIME, 2003.10 – 2002.11)

The Technology Today (<http://www.techtodaybd.com/>)

#### TUTOR/ TA (PART-TIME, 2004.06 – 2002.04)

BUET- Institute of Information and Communication  
Technology (<http://www.buet.ac.bd/iict/>)

## AWARDS & SCHOLARSHIPS

2007-Present EPSRC PhD Student Maintenance Grant

2005-07 KIST-IRDA Postgraduate Research Scholarship.

2002- 05 BUET Technical Scholarship.

1997 District Commissioner's Gold Medal Honor.

1996 Prime Minister's Award of SSC Examination.

## RESEARCH & PUBLICATIONS

### CURRENT PROJECTS:

Defying the Rules -How Self -Organizing Systems Work.

### PUBLICATIONS:

Sarker, M, O, F, Park, J-M, Kim, C, You, B-J. "A Knowledge-  
Based Service Approach for Human-Centered Robots".IEEE  
International Workshop on Robot and Human Interactive  
Communication, ROMAN 2007, Jeju Island, Korea, August  
2007.

Sarker, M, O, F, Kim, C, Sadi, M, G, You, B-J. "Developing  
Knowledge-Based Security-Sense of Networked Intelligent  
Robots". Lecture Notes in Computer Science, Volume  
4251/2006, Springer-Verlag, Pages 874-881.

Sarker, M, O, F, Kim, C, Baek, S, You, B-J. "An IEEE-1394  
Based Real-time Robot Control System for Efficient  
Controlling of Humanoids". Proc. of IEEE/RSJ  
International Conference on Intelligent Robots and Systems  
(IROS), Beijing, China, October 2006 .

Sarker, M, O, F, Kim, C, Cho, J-S, You, B-J. "Development  
of a Network-based Real-Time Robot Control System over  
IEEE 1394: Using Open Source Software Platform". Proc. of  
IEEE International Conference on Mechatronics (ICM),  
Budapest, Hungary, July 2006.

## TECHNICAL SKILLS

**Programming/ Scripting Languages** – C/C++, Java,  
Prolog, Matlab, Unix Shell scripts, Tcl/Tk, XML/HTML.

**Design and Documentation** – Subversion, Doxygen, Latex,  
Dia.

**Other Skills** – Experienced in Unix system programming,  
Linux device-driver development, and in setting up and  
maintaining Linux based network and database servers.

## NON-ACADEMIC ACHIEVEMENT

### International Friendship Award

Boy Scouts of Nippon (Japan) at "International Scouts  
Invitation Program", Myoko, Japan, July 1995.

## REFERENCE

### Dr. Torbjørn Dahl,

Senior Lecturer/Coordinator

Robotics Intelligence Lab

University of Wales, Newport

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