

BRIEF RESUME OF SAIFUR RAHMAN SABUJ



Mailing Address:

Saifur Rahman Sabuj

C/o: Md. Aminur Rahman

Plot # 5, ICDDR,B Housing Society Limited

MilkVita Road (Section 7), South Pallabi

Mirpur, Dhaka 1216, Bangladesh

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CAREER OBJECTIVE

To contribute in the field of wireless communication by designing and modeling novel technology. I am interested to working and developing in-depth skills in the area of wireless communication, especially Molecular Communication, Cognitive Radio Network, Green Communication, Cooperative Communication, LTE, 4G and 5G.

PROFESSION

Assistant Professor, Electrical & Electronic Engineering

Bangladesh University, 15/1, Mohammadpur, Dhaka 1207, Bangladesh

Period: November 2016 to present, and September 2012 to September 2013

Researcher, Hamaken Laboratory

Kochi University of Technology, Japan

Period: October 2013 to September 2016

Lecturer, Electrical & Electronic Engineering

Metropolitan University, Sylhet 3100, Bangladesh

Period: January 2012 to September 2012

Lecturer, Electrical & Electronic Engineering

Green University of Bangladesh, Dhaka, Bangladesh

Period: February 2009 to May 2011

EDUCATIONAL QUALIFICATIONS (IN REVERSE CHRONOLOGICAL ORDER)

Ph.D. Information Systems Engineering, School of Information

Kochi University of Technology, Japan

CGPA: 4.00/4.00

Graduation Year: September 2017

MSc Institute of Information and Communication Technology

Bangladesh University of Engineering and Technology

CGPA: 3.25/4.00

Graduation Year: 2011

- BSc Department of Electrical, Electronic and Communication Engineering
Military Institute of Science and Technology, Dhaka University
CGPA: 3.65/4.00
Graduation Year: 2007
- HSC Dhaka Residential Model College
CGPA: 5.00/5.00 (Including Additional subject)
4.40/5.00 (Without Additional subject)
Graduation Year: 2003
- SSC Dhaka Residential Model College
CGPA: 5.00/5.00 (Including Additional subject)
4.75/5.00 (Without Additional subject)
Graduation Year: 2001

SHORT COURSE

SOI ASIA COURSE CERTIFICATIONS

Course Title : “IT policy and technology: Japan and global IT environment”
Duration : April 09, 2009 – July 09, 2009
KEIO University, Japan

BOOKS

S. R. Sabuj and S. Das, *OFDM based Cooperative Communication over Nakagami Fading Channel*, LAP LAMBERT Academic Publishing, ISBN-10: 3659430404, ISBN-13: 9783659430404, August 2013.

M. M. Rahman, **S. R. Sabuj** and T. Baten, *Microcontroller Based Friend or Foe (FoF) Detection System*, LAP LAMBERT Academic Publishing, ISBN-10: 3659140848, ISBN-13: 978-3659140846, June 2012.

PUBLICATIONS (Journal Papers)

- 2017 **S. R. Sabuj** and M. Hamamura, “Two-slope Path-loss Design of Energy Harvesting in Random Cognitive Radio Networks,” *Computer Networks*, Elsevier (under review).
- 2017 **S. R. Sabuj** and M. Hamamura, “Outage and Energy-Efficiency Analysis of Cognitive Radio Networks: A Stochastic Approach for Transmit Antenna Selection,” *Pervasive and Mobile Computing* Elsevier, 2017.
- 2017 **S. R. Sabuj** and M. Hamamura, “Uplink Modeling of Cognitive Radio Network Using Stochastic Geometry,” *Performance Evaluation*, Elsevier (Accepted).
- 2017 **S. R. Sabuj** and M. Hamamura, “Signal Technique for Friend or Foe Detection of Intelligent Malicious User in Cognitive Radio Network,” *International Journal of Ad Hoc and Ubiquitous Computing*, Inderscience Publishers Ltd. (under review).
- 2014 **S. R. Sabuj**, S. Das and Md. Jakir Hossain “Performance analysis of OFDM based cooperative communication over nakagami fading channel” *International Journal of Hybrid Information Technology*, Vol. 7, No. 4, pp. 321-330, 2014.
- 2014 K. J. A. Chisty, S. M. A. Islam, S. E. Ullah and **S. R. Sabuj** “Scrambled voice frequency signal transmission in an amplify and forward relaying based STBC encoded cooperative MIMO-OFDM system” *International Journal of Signal Processing, Image Processing and Pattern Recognition*, Vol. 7, No. 2, pp. 143-152, 2014.
- 2014 **S. R. Sabuj**, Md. Mahfujul Hasan and Md. Jakir Hossain “Effects of backscattering and atmospheric scintillation on OFDM based optical wireless communication” *International Journal on Communications*, Vol. 3 Iss. 1, pp. 1-5, March 2014.

- 2013 K. J. A. Chisty, S. M. A. Islam, S. E. Ullah and **S. R. Sabuj** "Encrypted color image transmission in an amplify and forward relaying based STBC encoded cooperative MIMO OFDM system" *International Journal of Computer Networks and Communications Security*, Vol.1, No.7, pp. 292–298, Dec. 2013
- 2013 K. J. A. Chisty, S. M. A. Islam, S. E. Ullah and **S. R. Sabuj** "Impact of STBC scheme on BER performance assessment of a single amplify and forward relaying protocol based cooperative MIMO-OFDM system" *International Journal of Hybrid Information Technology*, Vol. 6, No. 6, pp. 381-388, 2013.
- 2013 K. J. A. Chisty, S. M. A. Islam, S. E. Ullah and **S. R. Sabuj** "Performance of OFDM based amplify-and-forward relay in nakagami fading channel" *Mobile Computing*, Vol. 2 Iss. 4, November 2013.
- 2013 K. J. A. Chisty, S. M. A. Islam, S. E. Ullah and **S. R. Sabuj** "Performance evaluation of multiple amplify and forward relayed cooperative MIMO-OFDM system with implementation of ZF-SIC and MMSE-SIC signal detection schemes" *Communications in Information Science and Management Engineering*, Vol. 3, Iss. 9, PP. 448-454, Sept. 2013.
- 2013 Md. Mahfujul Hasan, **S. R. Sabuj** and Kazi Wohiduzzaman, "Performance analysis of an OFDM based optical wireless communication impaired by backscattering" *International Journal on Communications*, Vol. 2, Iss. 3, page no: 83-87, September 2013.
- 2012 **S. R. Sabuj** and M. S. Islam, "Performance analysis of SFBC and data conjugate in MIMO-OFDM system over nakagami fading channel" *Journal of Communication*, vol. 7, no. 11, page no: 790-794, ISSN 1796-2021, Academy Publisher, Finland, Nov. 2012.
- 2012 **S. R. Sabuj**, M. D. A. Satter and T. Baten "Design and implementation of automatic power transfer and load shed controller" *Business Review-Bangladesh*, vol. 1, no. 1; ISSN: 2224-1884; page no: 189-198, January 2012.
- 2011 **S. R. Sabuj**, M. D. A. Satter, T. Baten and F. Rashid "Inter-carrier Interference Effect in MIMO-OFDM system" *Green University Review (Journal of Green University of Bangladesh)*, ISSN: 2218-5283, vol. 2, no. 2, page no: 201-208, December 2011.
- 2011 **S. R. Sabuj**, M. S. Islam and R. Khan, "Reduction of ICI Effect in MIMO-OFDM System using Self-Cancellation" *Journal of Telecommunications*, vol. 10, no. 1, August 2011.
- 2010 **S. R. Sabuj**, M. Z. Mahmud "Suppression ICI Self-Cancellation Technique in OFDM using ADS" *Green University Review (Journal of Green University of Bangladesh)*, ISSN: 2218-5283, vol. 1, no. 2, December 2010.
- 2010 **S. R. Sabuj**, M. I. Hossain, S. A. Khan and A. Arefin "Room Control Unit Using Standard RC5 Remote Code" *Green University Review (Journal of Green University of Bangladesh)*, ISSN: 2218-5283, vol. 1, no. 1, pp. 83-92, July 2010.

PUBLICATIONS (Conference Papers)

- 2017 **S. R. Sabuj** and M. Hamamura, "Random cognitive radio network performance in rayleigh-lognormal environment," in *Proc. IEEE CCNC*, pp. 99-104, 2017.
- 2015 **S. R. Sabuj**, M. Hamamura, and S. Kuwamura "Detection of intelligent malicious user in cognitive radio network by using friend or foe (FoF) detection technique," in *Proc. ITNAC*, pp. 155-160, Nov. 2015.
- 2015 **S. R. Sabuj** and M. Hamamura, "Energy efficiency analysis of cognitive radio network using stochastic geometry," in *Proc. IEEE CSCN*, pp. 245-251, Oct. 2015.
- 2014 **S. R. Sabuj** and M. Hamamura, "Approaches to the dynamic efficiency in wireless communications," in *Proc. ISCIT*, pp. 453-457, Sept. 2014.
- 2013 S. Das, **S. R. Sabuj**, and M. M. Tanim, "Effect of frequency offset and phase noise in MCCDMA" *International Conference on Engineering Research, Innovation and Education 2013 (ICERIE 2013)*, January, 2013.
- 2011 **S. R. Sabuj** and M. S. Islam, "Performance Analysis of SFBC in MIMO-OFDM System over Nakagami-m Fading Channel" in *Proc. ICCIT*, pp. 30-33, Dec. 2011.
- 2011 **S. R. Sabuj**, K. J. A. Chisty and M. D. A. Satter, "BER Performance of MIMO-OFDM System over Nakagami Fading Channel" in *Proc. ICCIT*, pp. 34-37, Dec. 2011.
- 2011 **S. R. Sabuj**, M. A. Rahman, M. O. Hoque and M. B. Rahman, "Design of automatic power transfer and load dump controller" *Mosharaka International Conference on Power Engineering, Control and Mechatronics (MIC-PCM2011)*, Jordan, 2011.
- 2011 M. Z. Mahmud, M. I. Abdullah, **S. R. Sabuj**, "Reduction of PAPR in OFDM Using SLM for Different Route Number" *International Conference on Engineering Research, Innovation and Education 2011 (CERIE 2011)*, ISBN: 978-984-33-2140-4, pp. 679-683, January 2011.
- 2011 **S. R. Sabuj** and M. S. Islam, "Performance of MIMO-OFDM over flat fading channel using

- Convolution Coding” International Conference on Engineering Research, Innovation and Education 2011 (CERIE 2011), ISBN: 978-984-33-2140-4, pp. 1078-1082, January 2011.
- 2010 **S. R. Sabuj** and M. S. Islam, “Reduction of ICI in MIMO-OFDM system using self-cancellation with space frequency blocks coding” in *Proc. ICECE*, pp. 618-621, Dec. 2010.
- 2010 **S. R. Sabuj** and M. S. Islam, “Suppression of intercarrier interference using self-cancellation data conjugate scheme in MIMO-OFDM system” Mosharaka International Conference on Communications, Networking and Information Technology (MIC-CNIT2010), Jordan, Dec. 2010.

POSITION OF RESPONSIBILITY

To review a good number of Scientific Research papers and dissertation works prepared by the colleagues as well as students during my career.

Reviewer for various journals such as Mobile Networks and Applications, IEEE Journal.

Reviewer for various conferences such as IEEE Globecom, IEEE CSCN.

Member, IEEE and IEEE Communication Society.

COMPUTER LITERACY

Programming: C/C++, Assembly language (MASM), MATLAB, PSpice.

Simulation tools: MATLAB, Xilinx, ADS.

PERSONAL INFORMATION

Name (In Full) : SAIFUR RAHMAN SABUJ
Mother's Name : Mrs Saleha Begum
Father's Name : Mr Md. Aminur Rahman
Present Address : Plot # 5, ICDDR,B Housing Society Ltd., MilkVita Road,
South Pallabi, Section 7, Mirpur, Dhaka 1216, Bangladesh
Permanent Address : Village - Dautia, Post Office - Shushunda
Police Station & District - Manikganj, Country - Bangladesh
Date of birth : 2nd September 1985
Marital Status : Unmarried
Citizenship/Nationality : Bangladeshi by birth
Religion : Islam (Sunni Muslim)

REFEREES

Professor Dr. Masanori Hamamura
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Kochi University of Technology (KUT)
Kami-shi 782-8502, Japan
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Professor Dr. Md. Imamuddin
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