

ARSHAD M. CHOWDHURY | Curriculum Vitae

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EDUCATION

Georgia Institute of Technology, Atlanta, GA, USA

PhD in Electrical and Computer Engineering (2006)

(Minor in Computer Science)

Wright State University, Dayton, OH, USA

MS in Computer Engineering (1999)

Bangladesh University of Engineering and Technology (BUET), Dhaka

BS in Computer Science and Engineering (1995)

EXPERIENCE

North South University (NSU), Bashundhara, Dhaka, Bangladesh

Professor, Department of Electrical and Computer Engineering (Mar. 2017 -)

Dean, School of Engineering and Physical Sciences (Nov. 2017 - Mar. 2019)

Chair, Department of Electrical and Computer Engineering (Nov. 2014 - Apr. 2016)

Director, Confucius Institute at NSU (Jun. 2013 - Dec. 2014)

Program Coordinator (EEE/ETE), Dept. of ECE (Jun. 2011 - Jun. 2013)

Associate Professor, Dept. of Electrical and Computer Engineering (Dec. 2011 - Mar. 2017)

Assistant Professor, Dept. of Electrical and Computer Engineering (Jan. 2011 - Dec. 2011)

Georgia Institute of Technology, Atlanta, GA, USA

Research Engineer II, School of Electrical and Computer Engineering (Jan. 2007- Dec. 2010)

Doctoral Research Assistant, School of Electrical and Computer Engineering (Jan. 2003 - Dec. 2006)

Mitsubishi Electric Research Laboratories, Cambridge, MA, USA

Research Intern, Sensor Networks Division (May 2006 - Sep. 2006)

NEC Laboratories America, Inc., Princeton, NJ, USA

Research Assistant, Broadband and Mobile Networks (May 2005 - Aug. 2005)

Telcordia Technologies, Inc. (formerly Bell Communication Research), Red Bank, NJ, USA

Research Scientist, Optical Internetworking Research (9 May 1999 - Dec. 2002)

Wright State University, Dayton, OH, USA

Graduate Teaching Assistant, Computer Science and Engineering (Apr. 1998 - Apr. 1999)

Shahjalal University of Science and Technology, Sylhet, Bangladesh

Lecturer, Department of Electronics and Computer Science (Aug. 1995 - Aug. 1997)

KEY ACCOMPLISHMENTS (Recent)

Prepared Five-year Strategic Plan for the Engineering School and its Departments:

- As the Chair of the ECE department, prepared first five-year (2015-2019) strategic plan for the Department of Electrical and Computer Engineering (ECE) in 2014-2015
- Played major leadership role to prepare the next five-year (2019-2023) strategic plan for the Department of Electrical and Computer Engineering and Department of Civil and Environmental Engineering (CEE).
- As the Dean of the School of Engineering and Physical Sciences, prepared school-wide five-year (2019-2023) strategic goal for academic and research development.

Established Outcome-based Curriculum for Engineering Programs:

Played significant leadership role at the department level and later at the school level in establishing outcome-based engineering curriculum

- Established outcome-based education (OBE) curriculum for three undergraduate programs (BSCSE, BSEEE and BSETE) under the Department of ECE in Fall-2014. The OBE curriculum for these three programs were designed based on ABET standard and requirements.
- Took initiatives to revise the engineering curriculum of BSCSE, BSEEE, BSETE and BSCEE to incorporate new outcome-based accreditation requirements of Board of Accreditation for Engineering and Technical Education (BAETE), Bangladesh, which is working towards becoming a full-member of the Washington Accord.
- Established the process for assessing the attainment of Program Outcomes (POs) and Course Outcomes (COs) for continued quality improvement (CQI)
- Provided OBE training sessions to the SEPS faculty members on designing OBE curriculum, assessing learning outcomes and CQI process.
- Introduced Capstone Design Project course for the engineering programs

Acquiring Accreditation of the Engineering Programs

- Key contributor in preparing Preliminary Self-Study Reports (SARs) submitted to Readiness Review Committee of the ABET's Computing Accreditation Commission (CAC) and Engineering Accreditation Commission (EAC) for reviewing the readiness of the BSCSE, BSEEE and BSETE programs under the Department of Electrical and Computer Engineering for the ABET accreditation in 2014-2015
- As the Chair of the ECE department, I took initiatives to acquire the BAETE Accreditation of BSCSE, BSEEE and BSETE program. Submitted self-assessment report (SAR) in Spring-2016 and received the accreditation under input-based system in 2017.
- As Dean of the engineering school, played key leadership role to prepare and submit the SAR of the BSCSE, BSEEE and BSCEE programs for BAETE accreditation under new outcome-based accreditation (OBA) manual in Summer 2018. Already received the accreditation of BSCEE program under BAETE new outcome-based accreditation manual in Fall 2018.

Academic-Industry Collaboration

- Increased academic-industry collaboration through formation of industry-advisory board

(IAB), signing MoUs with various industry partners

- Organized periodic meetings with the IAB, workshops and knowledge-sharing sessions with industry partners, received industry-trends and feedback on curriculum development process.

Enhanced Academic and Research Facilities

- Created three new software laboratories (120 computers) and one Capstone Project laboratory for the ECE department
- Created a High Performance Computing (HPC) Laboratories to facilitate computational-extensive research work in the area of data science, machine learning, artificial intelligence etc. Procured 64-core high performance cluster computer server with Tesla M60 GPU with 4093 CUDA parallel computing platform for the said lab.
- Provided Research Assistance (RA) to the research-productive faculty members.

Enhanced Student Services, Career Placement and Training

- Created Career Development & Industry Outreach initiatives for Engineering Students. Assigned a dedicated Faculty Coordinator, who works closely with NSU career and placement center to manage the interns, career development programs, workshops, grooming sessions for the engineering students. Following up the SEPS leads, two other schools have now taken similar measure for their students.
- Assisted NSU IT services to develop the automation of grade submission and grade change process, faculty evaluation portal, student advising and course registration system etc.
- Closely worked with the department chairs to ease the course offering options including increased number of sections, increased number of elective courses etc.

PROFESSIONAL DEVELOPMENTS

Training Received on Outcome-based Education:

- ABET Symposium - “*Fundamentals of Program Assessment Workshop*”, April 22-23, 2015, Atlanta, GA, USA
- BAETE 3-day workshop on “*Transition to Outcome-Based Education (OBE) System*” 9-11 December, 2016 at BRAC CDM, Rajendrapur, organized by BAETE,/IEB, Dhaka
- IQAC faculty training workshop on “*Bloom’s Taxonomy of Learning, Understanding the Concept of Learning Outcomes and Its Application, Quality Teaching Addressing Learning Outcomes*”, 2-3 November, 2016, North South University, Dhaka
- BAETE Workshop session on “*International Engineering Alliance/Washington Accord Expectation*” Prof. Dato' Ir. Dr. Hj. Wan Hamidon Hj. Wan Badaruzzaman, Director, Engineering Accreditation Council, Malaysia, October 31 2016, IEB Bhaban, Ramna
- BAETE Workshop session on “*Best Practices on Accreditation*” Prof Ir Dr Hjh Siti Hawa Hamzah, Associate Director, Engineering Accreditation Council, Malaysia, October 31 2016, IEB Bhaban, Ramna, Dhaka
- BAETE Workshop on “*Preparation for Outcomes-based Accreditation for Faculty and Program Directors*”, January 4, 2017, IEB Bhaban, Ramna, Dhaka, Resource person Er. Professor Dr. Kai Sang LOCK, Washington Accord Mentor to BAETE, Past Chairman, Engineering

Accreditation Board, IES, Professor, Singapore Institute of Technology

- BAETE Workshop for Program Evaluators titled “*Evidence-based On-site Assessment during Accreditation Visit*”, January 5, 2017, IEB Bhaban, Ramna, Dhaka, Resource person Er. Professor Dr. Kai Sang LOCK, Washington Accord Mentor to BAETE, Past Chairman, Engineering Accreditation Board, IES, Professor, Singapore Institute of Technology
- BAETE Workshop on Preparation for Outcome Based Accreditation titled “*IEA/Washington Accord (WA) Graduate Attributes*”, December 12, 2017, IEB Bhaban, Ramna, Dhaka
- BAETE Workshop on Preparation for Outcome Based Accreditation titled “*Towards Full Signatory Status of the Washington Accord: Outcome-based Education (OBE)*”, December 12, 2017, IEB Bhaban, Ramna, Dhaka

Key Resource Person and Facilitator:

- Trainer and Resource person of the BAETE day-long workshop titled “Workshop on BAETE Accreditation and OBE” for Engineering programs (CSE, EEE, Textile), December 1, 2018, South East University (SEU), Dhaka, Bangladesh
- Resource person of the SAC Workshop on “*Final Year Design Project*” for the faculty members of EEE department, October 25, 2018, East West University (EWU), Dhaka, Bangladesh
- Trainer and Resource person of the BAETE day-long workshop titled “On-Site Training on OBE” for CSE program, September 20, 2018, Varendra University, Rajshahi, Bangladesh
- Trainer and facilitator of IQAC workshop on “*Outcome Based Education*” for Engineering programs, August 11, 2018, South East University (SEU), Dhaka, Bangladesh
- Trainer and facilitator of IQAC workshop on “*Outcome Based Education: Promoting Excellences in Teaching, Learning and Assessment*” for CSE program, July 12, 2018, Green University Bangladesh (GUB), Dhaka, Bangladesh
- Key resource person of IQAC workshop on “*OBE & Curriculum Mapping Implementation*,” May 14, 2018, Dhaka International University (DIU), Dhaka, Bangladesh
- Trainer and facilitator of IQAC workshop on “*Teaching-Learning: Outcome based education (OBE)*” April 22, 2018, Bangladesh University of Textile (BUTEX), Dhaka, Bangladesh
- Key Resource Person of IQAC workshop on “*Introducing Outcome Based Education*” for School of Humanities and Social Sciences (SHSS) programs, April 18, 2018, North South University, Dhaka, Bangladesh
- Presenter of the workshop on “*BAETE and ABET Requirements on PEO, PO and CO Assessment*”, for School of Engineering and Physical Sciences (SEPS) programs, February 20, 2018, North South University, Dhaka, Bangladesh
- Key resource presenter of the session “*BAETE New Program Accreditation Manual and Self-Assessment Report (SAR) - An Overview for Program Evaluators*” in the BAETE workshop on “*Experience-Sharing Session for Program Evaluators*,” 15 February 2018, IEB Bhaban, Ramna, Dhaka, Bangladesh
- Key resource person of IQAC workshop on “*Program Outcome and Capstone Project Design*,” Dec 21, 2017, United International University (UIU), Dhaka, Bangladesh
- Key resource person “*Designing Capstone Project Design Course*”, December 21, 2017, Department of ECE, North South University, Dhaka

- Key Resource Person of IQAC workshop on “*Outcome based Education, Teaching and Assessment strategy*” for School of Engineering and Physical Sciences (SEPS) programs, November 9, 2017, North South University, Dhaka, Bangladesh
- Facilitator of the workshop session on “Assessment, Grading and Student Evaluation and Plagiarism” in the new faculty members orientation program, once per semester Fall '17 to Spring '19, North South University, Dhaka
- Conducted workshop on “*Assessment of Course Outcome*”, July 6, 2017, Department of Electrical and Computer Engineering, North South University, Dhaka
- Conducted workshop on “*Assessment of Program Outcome*”, June 15, 2017, Department of Electrical and Computer Engineering, North South University, Dhaka
- Conducted workshop on “*Bloom’s Taxonomy and Defining Course Outcome (CO)*”, May 25, 2017, Department of Electrical and Computer Engineering, NSU
- Key resource person of the workshop on “*Outcome based Education and Accreditation of Engineering Programs - BAETE and ABET requirements*”, May 18, 2017, Department of Electrical and Computer Engineering, North South University, Dhaka
- Presenter of the “*Information Session on ABET Accreditation*”, May 12, 2015, Department of Electrical and Computer Engineering, North South University, Dhaka

SELECT COMMITTEE WORK

- Serve as the Member of the following NSU statutory/academic/administrative committees
 - Syndicate (Aug.2018 – Mar.2019)
 - Academic Council (Aug. 2014 –Apr. 2016, Nov. 2017- Mar. 2019)
 - Finance Committee (Nov. 2017- Aug. 2018)
 - Faculty Search Committee (Aug. 2014 –Apr. 2016, Nov. 2017- Mar. 2019)
 - Faculty Appointment Committee, NSU (Aug. 2014 –Apr. 2016, Nov. 2017- Mar. 2019)
 - Disciplinary Committee (Aug. 2014 –Apr. 2016, Nov. 2017- Mar. 2019)
 - Purchase Committee (Aug. 2014 –Apr. 2016, Nov. 2017- Mar. 2019)
 - Technical Review Committee(Aug. 2014 –Apr. 2016, Nov. 2017- Mar. 2019)
 - Degree Review Committee (DRC) , NSU, (2014-2016, 2017-2018)
 - Conference Travel Grant and Research Committee, NSU, (2014-2016, 2017-2018)
 - Leave committee (Aug. 2014 –Apr. 2016, Nov. 2017- Mar. 2019)
 - Admission Committee (Aug. 2014 –Apr. 2016, Nov. 2017- Mar. 2019)
 - Certificate Verification Committee (2018)
 - Convenor, Anti-terrorism Committee (Aug 2016 – Mar 2019)
 - ECE Curriculum Committee (Jan 2011 -)
- External Expert Member of Faculty Selection Committee, UIU
- External Member – Curriculum Committee, EWU
- External Expert Member of Exam Committee - CSE, EEE at SUST
- External Expert member of Faculty Selection Committee – BAIUST, Camilla Cantonment
- Member – External Peer Review Team (EPRT) of IQAC SAR of CSE program, SUST

TEACHING

CSE115/ETE132: Programming Language I (Structured Programming Language)

Summer 2012, Spring 2013

CSE173: Discrete Mathematics

Fall 2017

CSE231: Digital Logic Design

Fall 2015, Spring 2016, Summer 2016, Fall 2016, Spring 2017, Summer 2017, Fall 2017, Spring 2018, Spring 2019

CEG413: Microprocessor and Interface Lab

Spring 2013

ETE131: Introduction to Telecommunication and Electronics

Fall 2011, Summer 2012, Fall 2012, Summer 2013, Fall 2013, Spring 2014, Summer 2014, Fall 2014

EEE211: Digital Electronics

Spring 2013, Summer 2013, Fall 2013, Spring 2014, Summer 2014, Fall 2014

EEE331/ETE331/CSE338: Data Communication and Networks

Spring 2011, Summer 2011, Fall 2011

EEE423/ETE423: Principles of Telecommunications

Spring 2011, Fall 2011, Spring 2012, Summer 2012, Fall 2012, Spring 2013, Summer 2013, Fall 2013, Spring 2014, Summer 2014, Fall 2014, Summer 2015, Spring 2016, Summer 2016, Spring 2017, Fall 2017

EEE424/ETE424: Mobile and Wireless Communications

Spring 2014, Summer 2014, Fall 2014, Spring 2015, Summer 2015, Fall 2016

ETE507: Fiber Optic Communications

Spring 2011, Spring 2012, Fall 2012, Summer 2013, Spring 2015, Summer 2016, Summer 2017, Summer 2018, Fall 2018

KEY RESEARCH WORK

Spectral efficient modulation for ultra-high data rate (100Gbps and beyond) optical transmission

Converged optical wireless access using radio-over-fiber (RoF) technology for protocol independent fixed and mobile broadband access network

High throughput wireless access at 60GHz mm-wave band

Next generation high-throughput time-division-multiplexed (TDM) and wavelength-division-multiplexed (WDM) optical access systems

Optical-wireless interconnections for high-performance computing (HPC) and server systems

Interlayer protocols and internet architecture using state-of-the-art Optical Label Switching (*OLS*) and Multi-Protocol Label Switching (MPLS) technology

Optical layer security and survivability

Network control and management interface using Label Switch Control Protocol (LSCP) for DARPA initiated next-generation internet (*NGI*) and *ATD/MONET testbed* projects.

PUBLICATIONS

CITATIONS

Scopus:	h-index: 17	total citations: 1452
Google Scholar:	h-index (all): 24, i10-index (all): 56 total citations (all): 2302	h-index (from 2014): 14 i10-index (from 2014): 20 total citations (from 2014): 795

CONFERENCES

1. Nova Ahmed, Minhaz Ahmed Syrus, **Arshad M. Chowdhury**, “ Simple Group Photo Sharing Using Facesense,” Proceedings - International Computer Software and Applications Conference, Vol. 1, 7 September 2017, Article number 8029707, Pages 845-850
2. Ahmed, Nova, Minhaz Ahmed Syrus, and **Arshad M. Chowdhury**. "Softsense: sensing at software level." In Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing: Adjunct, pp. 1-4. ACM, 2016
3. M.I. Khalil, A. Rahman, **AM Chowdhury**, A.M. Amin, G-K Chang, “Broadband photon harvesting capability enhancement with plasmonic inspired nanostructure based solar cell,” IEEE 39th Photovoltaic Specialists Conference (PVSC) , 2014
4. MI Khalil, **AM Chowdhury**, GK Chang , “Modified CMA Based Blind Carrier-Phase Estimation for 16-QAM Homodyne Digital Coherent Optical Receivers,” Conference on Lasers and Electro-Optics (CLEO) 2014, JTh2A.12
5. M.I. Khalil, **AM Chowdhury**, GK Chang, “Efficient FIR Filter Configuration to Joint IQ Imbalance and Carrier-Phase Recovery in 16-QAM Coherent Receivers,” Conference on Lasers and Electro-Optics (CLEO) 2014, STu3J.1
6. F. A. Hossain, **Arshad Chowdhury**, “User mobility prediction based handoff scheme for 60 GHz radio over fiber network,” IEEE 11th Consumer Communications and Networking Conference (CCNC), 2014
7. M.Z Kamal, **A.M. Chowdhury**, “A PAPR reduction approach in OFDM optical-wireless-access networks using Blind Symbol Power Estimation,” International Conference on Connected Vehicles and Expo (ICCVE), 2013
8. Md. Ibrahim Khalil, Atiqur Rahman, **Arshad M Chowdhury**, & Gee-Kung Chang “Optical Absorption Enhancement in Solar Cell Employing Plasmonic Nanowire as the Core of C-Si Nanowire” Conference on Lasers and Electro-Optics® (CLEO), 2013, San Jose, CA, USA.
9. Md. Ibrahim Khalil, Atiqur Rahman, **Arshad M Chowdhury**, Nowshad Amin & Gee-Kung Chang “Broadband Photon Harvesting Capability Enhancement with Plasmonic Inspired Nanostructure based Solar Cell” 39th IEEE Photovoltaic Specialists Conference (PVSC), 2013, Tampa, Florida, USA.
10. Md. Mosaddek Hossain Adib, Md. Ibrahim Khalil, **Arshad M Chowdhury**, & Gee-Kung Chang “Joint Blind Equalization and Carrier Phase Estimation in 16-QAM Optical Coherent Receiver for Long Reach Passive Optical Networks” Asia Communications and Photonics Conference (ACP-2013), Beijing, China
11. Md. Ibrahim Khalil, Md. Mosaddek Hossain Adib, **Arshad M Chowdhury**, Md. Saifuddin Faruk & Gee-Kung Chang, “Least Radial Distance Based Carrier Phase Recovery for 16-QAM Coherent Optical Systems” The 10th Conference on Lasers and Electro-Optics Pacific Rim, & 18th Opto-Electronics and Communications Conference / Photonics in Switching 2013 (CLEO-PR&OECC/PS 2013),Kyoto, Japan.
12. Md. Ibrahim Khalil, Atiqur Rahman, **Arshad M Chowdhury**, and Gee-Kung Chang, “Optical Absorption Enhancement in Solar Cell Employing Plasmonic Nanowire as the Core

- of C-Si Nanowire,” Conference on Lasers and Electro-Optics (CLEO), 2013 paper: CF2E.7
13. M Hossain Adib, Ibrahim Khalil, **Arshad M Chowdhury** and Gee-Kung Chang, “Non-Decision Aided LMS Algorithm for Joint Blind Equalization and Carrier Phase Estimation in Optical Coherent Receiver”, Conference on Lasers and Electro-Optics (CLEO), 2013 paper: JTU4A.95
 14. Md Mosaddek Hossain Adib, Tahsin Uddin Mullick, **Arshad M Chowdhury** and Gee-Kung Chang "Enhancing C-Si Base PV-Cell Absorption Efficiency Using Micro-Hole Architecture," 2012 Conference on Lasers and Electro-Optics (CLEO), May 6-11, 2012, San Jose, CA, USA. Paper-JTh2A.71
 15. Md Mosaddek Hossain Adib, **Arshad M Chowdhury**, Gee-Kung Chang and Nowshad Amin "Absorption Performance of the Micro Concentrating Photovoltaic with Multimode Waveguide and Slanted Micro-Hole," 38th IEEE Photovoltaic Specialists Conference (PVSC), June 3-8, 2012, Austin, TX, USA.
 16. Md Mosaddek Hossain Adib, Tahsin Uddin Mullick, Md. Ibrahim Khalil, Arshad M Chowdhury, Gee-Kung Chang and Nowshad Amin, “Optical Absorption Enhancement in Slanted Micro-Hole C-Si for Photovoltaic Applications” Asia Communications and Photonics Conference (ACP) 2012, November 7-10, 2012, Guangzhou (Canton), China. Paper-ATh2F.3
 17. Md Mosaddek Hossain Adib, Md. Ibrahim Khalil, **Arshad M Chowdhury**, Md. Saifuddin Faruk & Gee-Kung Chang, “Non-Decision Aid Modified Least Mean Square Algorithm for Joint Blind Equalization and Carrier Recovery in Optical Coherent Receiver” Asia Communications and Photonics Conference (ACP) 2012, November 7-10, 2012, Guangzhou (Canton), China. Paper-ATh1C.2
 18. Md Mosaddek Hossain Adib, Tahsin Uddin Mullick and **Arshad M Chowdhury**, "Enhancing PV Efficiency of Planar Micro Optic Solar Concentrator Cell using Micro Hole and TIR," 2nd International Conference on the Developments in Renewable Energy Technology (ICDRET' 12), January 5-7, 2012, Dhaka, Bangladesh, pp 22-25.
 19. Md Mosaddek Hossain Adib, Md. Ibrahim Khalil, **Arshad M Chowdhury**, Md. Saifuddin Faruk & Gee-Kung Chang, “Equalization & Carrier Recovery for 112Gbps Optical Coherent System with HEX-16-QAM Modulation” 7th International Conference on Electrical and Computer Engineering, 2012, Dhaka
 20. Md. Ibrahim Khalil, Md Mosaddek Hossain Adib, **Arshad M Chowdhury**, Md. Saifuddin Faruk & Gee-Kung Chang, “Low Complexity Blind Level Discrimination Carrier Phase Recovery Algorithm in Optical Coherent Receiver” Asia Communications and Photonics Conference (ACP) 2012, November 7-10, 2012, Guangzhou (Canton), China. Paper-AS1C.4
 21. Md. Ibrahim Khalil, Md Mosaddek Hossain Adib, **Arshad M Chowdhury**, Md. Saifuddin Faruk, Abdullah Al Amin & Gee-Kung Chang “Low Complexity Non-Decision Directed Blind Carrier Phase Recovery Algorithm in Optical Coherent Receiver” 3rd International Conference on Photonics (ICP), October 1-3, 2012, Penang, Malaysia.
 22. Md. Ibrahim Khalil, Md Mosaddek Hossain Adib, **Arshad M Chowdhury**, Md. Saifuddin Faruk & Gee-Kung Chang, “Blind Level Discrimination Carrier Recovery Algorithm for 16-QAM Optical Coherent Communication System” 7th International Conference on Electrical and Computer Engineering (ICECE 2012), Dhaka, Bangladesh.
 23. Md. Ibrahim Khalil, Md Mosaddek Hossain Adib, **Arshad M. Chowdhury**, Md. Saifuddin Faruk & Gee-Kung Chang, “A Novel Algorithm for Blind Joint Equalization and Carrier Phase Estimation in 16-QAM Coherent Optical Communication” 7th International Conference on Electrical and Computer Engineering (ICECE 2012). Dhaka, Bangladesh.
 24. **A. Chowdhury**, H-C Chien, S-H Fan, J. Yu, N. Jayant and G-K Chang, “Radio over Fiber Technology for Next-Generation E-Health in Converged Optical and Wireless Access

- Network,” IEEE/OSA Optical Fiber Communication Conference (OFC) – Los Angeles, CA, March 2011 *Invited Paper*
25. **A. Chowdhury**, H-C Chien, S-H Fan, C. Liu, C. Su and G-K Chang, “A Survivable Protection and Restoration Scheme using Wavelength Switching of Integrated Tunable Optical Transmitter for High Throughput WDM-PON System,” IEEE/OSA Optical Fiber Communication Conference (OFC), Los Angeles, CA, March 2011
 26. **A. Chowdhury**, K. Chuang, H-C Chien, D. Yeh, and G-K Chang, “Field Demonstration of Bi-directional Millimeter Wave RoF Systems Inter-operable with 60 GHz Multi-gigabit CMOS Transceivers for In-building HD Video and Data Delivery,” IEEE/OSA Optical Fiber Communication Conference (OFC) Los Angeles, CA, March 2011
 27. C. Liu, H-C Chien, Z. Gao, W. Jian, **A. Chowdhury**, J. Yu, G-K Chang, " Multi-band 16QAM-OFDM vector signal delivery over 60-GHz DSB-SC optical millimeter-wave through LO enhancement," IEEE/OSA Optical Fiber Communication Conference , Los Angeles, CA, March 2011
 28. H-C Chien, M-F Huang, J. Liu; **A. Chowdhury**, J. Yu, G-K Chang, " Novel architectures for orthogonal wavelength division multiplexed passive optical networks (OWDM-PONs) in a 25-GHz grid," IEEE/OSA Optical Fiber Communication Conference , Los Angeles, CA, March 2011
 29. S-H Fan; D. Guidotti, **A. Chowdhury**, H-C Chien, G-K Chang, " Optical central clock distribution for MIMO-enabled, millimeter wave wireless interconnects," OFC 2011
 30. Y-T Hsueh, H-C Chien, **A. Chowdhury**, C. Su, G. Gu, G-K Chang, " A 112 Gb/s duobinary-shaped PolMux DQPSK system with enhanced narrow filtering tolerance," Conf. on Lasers and Electro-Optics, 2011
 31. M-F Huang, **A. Chowdhury**, Y-T Hsueh; J. Yu, G-K Chang, “Integration of RoF with WDM-PON for lightwave centralized access networks,” 16th OECC, 2011
 32. G-K Chang; J. Long, S-H Fan; C. Liu, **A. Chowdhury**, H-C Chien, S. Khire, N. Jayant, “Emerging heterogeneous optical wireless access networks for next generation telemedicine and telehealth applications,” 16th Optoelectronics and Communications Conference (OECC), 2011
 33. **A. Chowdhury**, H-C Chien, G-K Chang, “Demonstration of Simultaneous All-optical Up-conversion of Gigabit Wireless Services at 60-GHz and 64-GHz in Converged Optical Wireless System Carried by Single Wavelength Lightwave,” OFC 2010, paper OWQ5
 34. **A. Chowdhury**, H-C Chien, J. Wei, G-K Chang Multi-Service Multi-Carrier Broadband MIMO Distributed Antenna Systems for in-Building Optical Wireless Access,” OFC 2010, paper JWA57
 35. **A. Chowdhury**, H-C Chien, S M Khire, S-H Fan, N. Jayant, G-K Chang, “Converged Broadband Optical and Wireless Communication Infrastructure for Next-Generation Telehealth,” IEEE Healthcom2010 (12th International Conference on e-Health Networking, Application & Services) ,1-3 July 2010 in Lyon, France.
 36. **A. Chowdhury**, H-C Chien, S M Khire, S-H Fan, N. Jayant, G-K Chang, “Next-Generation E-Health Communication Infrastructure using Converged Super-Broadband Optical and Wireless Access Technology,” IREHSS 2010 (Second International IEEE WoWMoM Workshop on Interdisciplinary Research on E-Health Services and Systems), June 14, 2010, Montreal, Canada
 37. H-C Chien, **A. Chowdhury**, S-H Fan, D. Guidotti, Y-T Hsueh, Z. Jia, G-K Chang, “Spectrum-Compressed, Millimeter-Wave Wireless over Fiber Access System Using Duobinary Line Coding at 10-Gbps and Beyond,” OFC 2010,paper OThO1
 38. J. Yu, M-F Huang, Z. Jia, **A. Chowdhury**, H-C Chien, Z Dong, W. Jia, G-k Chang, “Arbitrary-Frequency Optical Millimeter-Wave Generation for Radio over Fiber Systems,”

OFC 2010, paper OTuF2

39. Z. Jia, J. Yu, A. Agarwal, H-C Chien, **A. Chowdhury**, G. Ellinas, J. Jackel, G-K Chan, "Photonic Generation and Processing Technologies for Converged Ultra-High Throughput Fiber-Wireless Systems," OFC 2010, paper OTuF6
40. G-K Chang, W. Jian, Z. Jia, and **A. Chowdhury**, "Broadband Access Technologies for Very High Throughput Wireless Sensor Communication Networks," IEEE Radio and Wireless Symposium (RWS) 2010, *Invited paper*
41. D. Guidotti, H-C Chien, S-H Fan, **A. Chowdhury**, T. Guo, G-K Chang, " Millimeter-wave main memory-to-processor data bus," Proc. of 11th International Conference on Electronic Packaging Technology & High Density Packaging (ICEPT-HDP), pp: 1280 - 1287, 2010
42. W. Jian, C. Estevez, **A. Chowdhury**, Z. Jia, G-K Chang, " A hybrid MAC protocol design for energy-efficient very-high-throughput millimeter wave wireless sensor communication networks," Communications and Photonics Conference and Exhibition (ACP), 2010 , Page(s): 631 - 632
43. **A. Chowdhury**, J. Yu, H-C Chien, M-F Huang, Ting Wang, G-K Chang, "Spectrally Efficient Simultaneous Delivery of 112Gbps Baseband Wireline and 60 GHz MM-Wave Carrying 10Gbps Optical Wireless Signal in Radio-over-Fiber WDM-PON Access Systems," ECOC , Sept. 2009
44. **A. Chowdhury**, H-C Chien, J. Yu, G-K Chang, "Novel 50-GHz Spaced DWDM 60-GHz mm-Wave RoF Systems using Optical Interleaver," Optical Fiber Communications Conference (OFC), March 2009, OTuB1
45. G-K Chang, **A. Chowdhury**, H-C Chien, "Bi-Directional multi-service 60-GHz mm-Wave radio- over-fiber network interoperable with multi-Gigabit wireless transceiver for very high throughput in-building HD video and data delivery," OSA Frontier in Optics (FiO) 2009, FMD1 *Invited paper*
46. G-K Chang, **A. Chowdhury**, H-C Chien, George Ellinas, "Architectures and Technologies for Very High Throughput in-building Wireless Services using Radio-over-Fiber Networks," IEEE Photonic Society Summer Topical Meetings, July 2009 –MB1.1 *Invited paper*
47. S-H Fen, H-C Chien, Y-T Hsueh, **A. Chowdhury**, G-K Chang, "Simultaneous transmission of wireless and wired data using coherent subcarrier modulation of optically generated 60-GHz signals," IEEE Photonic Society Summer Topical Meetings, July 2009 – paper MB1.3
48. H-C Chien, **A. Chowdhury**, Yu-Ting Hsueh, Z. Jia, S-H. Fan, J. Yu and G-K Chang, "A Novel 60-GHz Millimeter-Wave over Fiber with Independent 10-Gbps Wired and Wireless Services on a Single wavelength," OFC, March 2009, paper OTuB7
49. D. A. Yeh, **A. Chowdhury**, R. Pelard, S. Pinel, S. Sarkar, P. Sen, B. Perumana, D. Dawn, M. Leung, H.C. Chien, Y.T. Hsueh, Z. Jia, J. Laskar, G.K. Chang, "Millimeter-wave Multi-Gigabit IC Technologies for Super Broadband Wireless Over Fiber Systems," OFC, March 2009, OTuB3
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Co-inventor of the following patents granted by USPTO

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REFERENCES

Professional, academic and personal references available upon request