Format: Electronic Book

10th Global Conference on Cyber Security and Cloud Engineering 2023

December 15-17, 2023 – Vancouver, Canada

Conference Abstract

Venue

800 Robson Street, Vancouver, British Columbia
Canada V6Z 3B7
December 16, 2023

Table of Contents

Global Conference Alliance Inc.
300-9850 King George Blvd Surrey, BC V3T 4Y3,Canada
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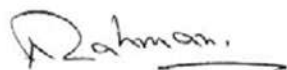
<u>Welcome</u>

As Conference Chair I'm honored to welcome all participants to the **10th Global Conference on Cyber Security and Cloud Engineering (GCCSCE)** held on December 15-17, 2023, in beautiful Vancouver, BC, Canada

This conference will be an excellent opportunity to meet and network with delegates from around the world in areas of management, marketing, international business, human resource management, accounting, finance, entrepreneurship, digital marketing, informational technology, Nursing, healthcare, business, and economics. Participants should benefit from conference presentations exploring cutting-edge reviews and investigations in basic and applied research.

Attending this conference also gives you an opportunity to explore Vancouver and enjoy its scenic views, tropical climate, and friendly people. Vancouver enjoys a global reputation as one of the world's top cities for quality of life and recreation. Vancouver attracts many international conferences and events, including the 2010 Winter Olympics and Paralympics.

Thank you for considering attending the **10th Global Conference on Cyber Security and Cloud Engineering (GCCSCE) 2023**. A wide scope of participation will enrich our conference and help us all add significant value and experience to our shared research objectives.

Dr. Afzalur Rahman
CEO & Conference Chair
Global Conference Alliance Inc.
Proudly Canadian, Expanding Learning Worldwide

Conference Venue

ROOM: C680 HSBC HALL

800 Robson Street, Vancouver, British Columbia
Canada V6Z 3B7

Directions:

Public Transit:

UBC Robson Square is a short walk from the Burrard, Granville, and City Centre SkyTrain stations. Use the TransLink website to plan your trip via transit from any location in the Lower Mainland: https://www.translink.ca/

Driving & Parking:

To access the West Park lot for 800 Robson Street (Lot 189), head south on Howe Street to the corner at Nelson Street. The parking lot entrance will be on your right, just before Nelson. Note that Howe is a one-way street. Once you have entered the parking lot, follow the directional signs to UBC Robson Square. Please consult the West Park website for current pricing. Or Call Westpark at: 604-669-7275 [PARK]

Accessibility:

UBC Robson offers elevator access via our entrance on Hornby Street at Robson Street.

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<u>Conference Time Schedule</u>

**10th Global Conference on Cyber Security and Cloud Engineering (GCCSCE)
December 15-17, 2023 –Vancouver, BC, Canada**

- **Friday, December 15, 2023** – Arrival & Reception of the participants to Vancouver, BC, Canada

- **Saturday, December 16, 2023 (Conference Day)** – Registration, opening speech, keynote speech, and technical sessions:

Activity - Saturday, December 16, 2023 (Conference Day)	Time
Registration and Lunch	1:00 pm to 1:30 pm
Opening Remarks **Dr. Afzalur Rahman** *Douglas College, Canada*	1:30 pm to 1:35 pm
Keynote Speech **Anthony Green** Cyber Security Instructor, University of British Columbia	1:35 pm to 2:05 pm
Photo Session	2:05 pm to 2:15 pm
Technical Session (Paper presentation)	2:15 pm to 2:55 pm
Break	2:55 pm to 3:10 pm
Technical Session (Paper presentation)	3:10 pm to 4:00 pm
Certificate Awarding and Closing Ceremony	4:00 pm to 5:00 pm

- **Sunday, December 17, 2023**– City visit (optional to the participants)

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Conference Committee

Keynote Speech

Anthony Green
Cyber Security Instructor, University of British Columbia

Anthony Green, BTech, is the Manager of Security Operations and Compliance at Chartered Professional Accountants of British Columbia (CPABC), where he leads the team responsible for CPABC's security program. Prior to joining CPABC, Anthony was a security analyst for London Drugs, one of Western Canada's largest retailers, where he led payment card industry compliance.

Through CPABC's newsroom, Anthony curates and publishes articles, monthly podcasts and other resources on cybersecurity. Anthony is enthusiastic about giving back to the local information security community by mentoring young graduates, and teaching local small businesses the fundamentals of cybersecurity.

Anthony serves as President for the Vancouver chapter of the Information Systems Audit and Control Association, a global organization of 145,000 members.

Committee Members

- **Dr. Afzalur Rahman,** Douglas College, Canada Conference Chair

- **Dr. Michael Henry,** Thompson Rivers University, Canada; Dean, School of Business & Economics – Adviser

- **Masum Billah Bhuiyan,** Founder of Giant Marketers
  IT Entrepreneur || Public Speaker || Business Coach || Digital Marketing Expert

- **Mr. John O'Fee**, QC, Thompson Rivers University, Canada - Business Law and Human Resource Management

- **Dr. Erika Skita**, Instructor, Granville College in Vancouver, Canada

- **Dr. Dushyant Gosai**, Colorado State University-Global Campus, United States - Accounting

- **Mr. Simon Parker**, Douglas College, Canada - Marketing and International Business

- **Dr. Ahmed Hoque**, Vancouver Island University, Canada - Economics and Banking

- **Dr. Emrul Hasan**, The University of British Columbia, Canada -Finance

- **Dr. Murat Erogul**, Faculty Member, Adelphi University, USA

- **Ms. Marisa McGillivray**, Economist at Statistics Canada Consumer Prices Division

- **Mr. Quazi M. Ahmed**, IFC/World Bank Group Certified Master Trainer

- **Mrs. Yasmin Jahir**, Divisional Chair, Electrical and Computer Engineering Director of Operations, USA

Authors' Presentation Review

Saturday, December 16, 2023

Name and Affiliation	Title
Parfaite Ndarhwa Nyamwezi *University of Cape Town*	**Security for Networked Smart Healthcare Systems: a Systematic Review**

<u>Instructions for Oral Presentation</u>

Saturday, December 16, 2023

Devices provided by the conference organizer:
- ❖ Laptop (with MS-Office and Adobe Reader)
- ❖ Projector and Screen

Materials provided by the presenters:
- ❖ PowerPoint or PDF files (files should be copied to the conference laptop at the beginning of each session)

Duration of each presentation:
- ❖ Regular oral presentation – 10 minutes including Q&A
- ❖ Keynote speech – 30 minutes

<u>Instructions for Publication</u>

All accepted papers in the 10th Global Conference on Cyber Security and Cloud Engineering

(10th GCCSCE 2023) will be published in the online conference proceedings:

Title: Abstract Book of 10th Global Conference on Cyber Security and Cloud Engineering 2023

Format: Electronic book

Authors' Presentation Schedule

Saturday, December 16, 2023,
Technical Session
02:15 pm to 02:55 pm

Name and Affiliation	Title and Abstract
Parfaite Ndarhwa Nyamwezi (Author) *University of Cape Town*	**Security for Networked Smart Healthcare Systems: a Systematic Review** **Abstract** Smart healthcare systems use technologies such as wearable devices, Internet of Medical Things (IoT) to dynamically connect people to health services and provide access to information related to healthcare. To secure and protect the sensitive medical information, several mitigation measures have been implemented and others have been proposed. Examples include data encryption and biometrics. Emerging security technologies such as Blockchain and X-Road are expected to address the distributed and decentralized architectures of smart healthcare systems. This study adhered to the Preferred Reporting Items for Systematic Reviews and Meta-analysis (PRISMA) guidelines and was framed using the Problem, Intervention, Comparator, and Outcome (PICO) approach to investigate and analyze the concepts of interest. This study reviewed articles that have addressed end-to-end security risks in smart healthcare systems. It also reviewed articles that identified security requirements and risks, proposed potential solutions, and explained the effectiveness of these solutions in addressing security problems in smart healthcare systems. This systematic review has shown that the use of blockchain technology, biometrics (fingerprints), data encryption techniques, multifactor authentication and network slicing in the case

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	of 5G smart healthcare systems has the potential to alleviate possible security risks in smart healthcare systems. The benefits of these solutions include a high level of security and privacy for Electronic Health Records (EHRs) systems; improved speed of data transaction without the need for a decentralized third party, enabled by the use of Blockchain. This study concluded that most studies focused on the protection of patient's data from attackers who may cause harm. However, there is lack of studies that focus on the protection of data in cases where the intruder has already accessed the system. **Keywords:** PICO, 5G, mobile networks, security, smart health

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List of Participants

SL	Name	Affiliation	City and Country	Role
1.	Reuben Wekesa Barasa	Ge East Africa Services Limited	Nairobi, Kenya	Listener
2.	Alex Boakye	Forestry commission of Ghana	Accra, Ghana	Listener
3.	Tabe Arrey Ojongnchong	African Engineering Company	BUEA, Cameroon	Listener
4.	Abdallah Mohamed Ibrahim Abdelrahman	The National Company for Learning and Education	Riyadh, Saudi Arabia	Listener
5.	Kedir Mustefa Aliye	Bio and Emerging Technology Institute	Addis Ababa, Ethiopia	Listener
6.	Damilola Odesanmi	Dax media Ng	Lagos island, Nigeria	Listener
7.	Muilu Yalala Synthia	Association Privee Jeunes Entrepreneurs	Kinshasa, Congo	Listener
8.	Moses Omijie	Lagos state judiciary	Lagos Island, Nigeria	Listener
9.	Darlington Mendu	Tino & Q Auto Integrated Services Limited	Eti osa II, Nigeria	Listener
10.	Din Mensah Maurice Emmanuel Romaric	Industrialize Africa MH Sarl	Douala, Cameroon	Listener
11.	Kabue Kabongo Freddy	Trust-Drc	Kinshasa, Congo	Listener
12.	Ahmadu Yusuf Soje	Deaf Angle	Abuja, Nigeria	Listener
13.	Godwin Chukwunonye Okolie	N/A	Rukpokwu, Nigeria	Listener With Notarization
14.	Orji Maurice Ifeanyi	Fly With Kay Travels	Nigeria	Listener

15.	Anadi Ikenna Benedict	Fly With Kay travels	Lagos island, Nigeria	Listener
16.	Fatayi Mohammed	Kwame Nkrumah University of Science and Technology(KNUST)	Kumasi, Ghana	Listener
17.	Lovekeet	Gagan International	Karnal, India	Listener
18.	Muhammed Waggeh	Securiport	Banjul, Gambia	Listener
19.	Sela Yoanne Jaques	MTI Congo	Pointe Noire, Congo	Listener With Notarization
20.	Nkounkou Ted Roderic	MTI Congo	Pointe Noire, Congo	Listener With Notarization
21.	Saeid Akhavan Ghorbani	RAD Holdings, Radern International	Tehran, Iran	Listener With Notarization
22.	Shambhu Pahadi	Himalayan Green Corporation	Bhaktapur, Nepal	Listener With Notarization
23.	Nguetnya Bernard	Sagicam Institute of Technology	Yaounde, Cameroon	Listener With Notarization
24.	Elijah Millar	Eastgust Limited	Kumasi, Ghana	Listener With Notarization
25.	Mavis Adjei	Contracta Construction UK Limited	Kumasi, Ghana	Listener With Notarization
26.	Parfaite Ndarhwa Nyamwezi	University of Cape Town	Basingstoke, United Kingdom (UK)	Author (Early Bird) With Notarization
27.	Mohammed Naafia	Judicial Service of Ghana	Kumasi, Ghana	Listener
28.	Aglubie Felix	Ghana First Cyber Security Solutions	Agona, Ghana	Listener With Notarization
29.	Seyedjamil Sabbaghifaragard	Telecommunication Company of Iran (TCI)	Mashhad, Iran	Listener
30.	Lamin Ceesay	Securiport	Bundung, Gambia	Listener With Notarization
31.	Audu Danjuma	Dan N Bali Consulting Pty Ltd	Mthatha, South Africa	Listener

32.	Mohammad Hussein Ali Abu Zraiq	Eskadenia Software Company	Irbid, Jordan	Listener
33.	Tuğba Yalçin	Testinium Technology And Software Incorporated Company	Beyoğlu İstanbul, Turkey	Listener With Notarization
34.	Patel Akashkumar Vishnubhai		Kadi, India	Listener With Notarization
35.	Kiriungi Jeremy Wahuria	Kauye Solutions	Kikuyu, Kenya	Listener With Notarization
36.	Sercan Okur	Nextray Ai Detection & Response Inc.	San Jose, United States	Listener With Notarization
37.	Rita Mejang Nkong	Ministry of Scientific Research and Innovation (MINREST)	Yaounde, Cameroon	Listener with Notarization
38.	George Metuge Sone	Ministry of Scientific Research and Innovation (MINREST)	Yaounde, Cameroon	Listener with Notarization
39.	Ettayuk Mario Atem	Ministry of Scientific Research and Innovation (MINREST)	Yaounde, Cameroon	Listener with Notarization

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