Emmanuel Dortey Tetteh

Lecturer · Computer Sciences & Information Technology
University of Cape Coast

ORCID 0000-0002-7522-5752 · Homepage directory.ucc.edu.gh/p/emmanuel-dortey-tetteh?tab=profile · Google Scholar scholar.google.com/citations?user=zQvLG-kAAAAJ&hl=en · Profile scholar.ucc.edu.gh/staff/f0aa07f7-9f11-4fbe-9820-9af09b7fbd8c

RESEARCH

Interests: information and communication technology · software engineering · computer networking

Areas: Education · Information Systems · Artificial Intelligence · Management Information Systems · Sociology and Political Science · Computer Science Applications

RESEARCH SUMMARY

18	59	5	2	1.24	14%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 18 publications listed below, 2015–2026. Field-weighted impact is the mean over the 14 works scored for it; 1.00 is the world average for works of the same field, type and year. 2 of the 14 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Senior Lecturer 2023–present
Computer Science and IT, University of Cape Coast, Cape Coast, Ghana

Lecturer 2015–2023
Computer Science Department, Koforidua Technical University, Koforidua, Ghana

EDUCATION AND QUALIFICATIONS

PhD Information and Communication Engineering 2017–present
Software Engineering, University of Electronic Science and Technology of China, Chengdu, China

Master of Information and Communication Technology 2012–2014
Information and Communication Technology, Open University Malaysia, Kuala Lumpur, Malaysia

DISTINCTIONS, MEMBERSHIPS AND SERVICE

Facilitating Online Courses - Cohort 2 2017–present
Commonwealth of Learning, Burnaby, Canada

PUBLICATIONS

Journal articles 13

1. Christopher Maccarthy, George Aggrey, **Emmanuel Tetteh** (2026). Empirical Attenuation of Wireless Mesh Network Performance in Higher Education Environments: A University of Cape Coast Case Study. *American Journal of Computer Science and Technology*. https://doi.org/10.11648/j.ajcst.20260902.13
2. EK Attipoe, AS Yussiff, Maame Gyamfua Asante-Mensah, **ED Tetteh**, RE Turkson (2025). An ensemble learning approach for diabetes prediction using the stacking method. *Computer Science and Information Technologies*. http://iaesprime.com/index.php/csit/article/view/482
3. Edem Ahialey, Regina E Turkson, Abdul-Lateef Yussif, Enoch A Frimpong, Elliot Attipoe, **Emmanuel D**

Tetteh (2025). Hybrid Encryption Models for Optimal Balance of Security, Scalability, and Computational Efficiency in Cloud Computing. *Cureus Journal of Computer Science.*. https://doi.org/10.7759/s44389-025-05146-3

4. Alimatu – Saadia Yussiff, Lemdi Frank Prikutse, Georgina Asuah, Abdul – Lateef Yussiff, **Emmanuel Dortey Tetteh**, Norshahila Ibrahim, Wan Fatimah Wan Ahmad (2024). The best machine learning model for fraud detection on e-platforms: a systematic literature review. *Computer Science and Information Technologies*. https://doi.org/10.11591/csit.v5i2.pp195-204
5. **Emmanuel Dortey Tetteh**, Patricia Ghann, Joseph Parbey, Alimatu-Saadia Yussiff (2023). An Analysis of Educational Portals' Implementation for Effective Online Learning. *International Journal of Advanced Corporate Learning (iJAC)*. https://doi.org/10.3991/ijac.v16i1.34703
6. Cephas Paa Kwasi Coffie, **Emmanuel Dortey Tetteh**, Abraham Emuron, Joseph Asante Darkwah (2022). COVID-19 and Mobile Payment Diffusion: Lessons for Future Mass Diffusion and Continual Usage. *Journal of Innovation Management*. https://doi.org/10.24840/2183-0606_010.001_0002
7. Patricia Ghann, **Emmanuel Dortey Tetteh**, Kobby Asare Obeng, Muhyideen Elias (2022). Preserving the Privacy of Sensitive Data Using Bit-Coded-Sensitive Algorithm (BCSA). *International Journal of Recent Contributions from Engineering Science & IT (iJES)*. https://doi.org/10.3991/ijes.v10i04.35023
8. Patricia Ghann, **Emmanuel Dortey Tetteh**, Nina Doe (2022). The Impact of Covid-19 on Cybersecurity. *International Journal of Recent Contributions from Engineering Science & IT (iJES)*. https://doi.org/10.3991/ijes.v10i01.27889
9. **Emmanuel Dortey Tetteh**, Benjamin Kwofie, Patricia Ghann (2021). Understanding Higher Education Institution-wide CMC Systems Implementation: A Structuration Theory Perspective towards Sustainability in Developing Countries. *Informatica*. https://doi.org/10.31449/inf.v45i6.3276
10. **Emmanuel Dortey Tetteh**, Zhiguang Qin, Benjamin Kwofie (2020). Computer-Mediated Communication Portal Implementation Framework: A Higher Education Institutional Perspective. *International Journal of Emerging Technologies in Learning (iJET)*. https://doi.org/10.3991/ijet.v15i03.11641
11. **Emmanuel Dortey Tetteh**, Zhiguang Qin, Benjamin Kwofie (2019). Managing an Information System Transformation in Higher Educational Institutions: A Case Study on CMC Portal in Ghana. *International Journal of Emerging Technologies in Learning (iJET)*. https://doi.org/10.3991/ijet.v14i22.11240
12. **Emmanuel Dortey Tetteh** (2018). USER PERCEPTIONS OF COMPUTER-MEDIATED COMMUNICATION PORTALS IN HIGHER EDUCATIONAL INSTITUTIONS IN DEVELOPING COUNTRIES. *ASEAN Journal of Open and Distance Learning (AJODL)*. https://scholar.google.com/scholar?cluster=22244063642610494 3&hl=en&oi=scholarr
13. **Emmanuel Dortey Tetteh** (2015). Exploring the reasons for a failure of online educational portals in developing countries: A case study of Koforidua Polytechnic in Ghana. *ASEAN Journal of Open Distance Learning. Vol*. https://www.academia.edu/download/47473805/07_EMMANUEL_Exploring_the_Reasons.pdf

Book chapters 3

1. Cephas Paa Kwasi Coffie, Hongjiang Zhao, Benjamin Kwofie, **Emmanuel Dortey Tetteh** (2020). Blockchain Smart Contracts and Empathy Trade-Off. *Advances in data mining and database management book series*. https://doi.org/10.4018/978-1-7998-3632-2.ch009
2. Benjamin Kwofie, **Emmanuel Dortey Tetteh** (2020). Emerging Opportunities for Blockchain Use by Small and Medium Enterprises (SMEs) in Developing Economies. *Advances in data mining and database management book series*. https://doi.org/10.4018/978-1-7998-3632-2.ch011
3. Benjamin Kwofie, **Emmanuel Dortey Tetteh**, Cephas Paa Kwasi Coffie (2020). Institutional E-Learning Implementation: An Actor-Network Theory (ANT) Perspective. https://doi.org/10.1007/978-981-15-7066-7_6

Conference papers 1

1. **Emmanuel Dortey Tetteh**, Benjamin Kwofie, Zhiguang Qin (2019). An implementation framework for Computer-Mediated Communication portal in higher educational institutions. https://doi.org/10.1109/icdsa46371.2019.9404238

Reports 1

1. **Emmanuel Dortey Tetteh** (2020). Cross-industry use of blockchain technology and opportunities for the future. *IGI global*. https://books.google.com/books?hl=en&lr=&id=gEThDwAAQBAJ&oi=fnd&pg=PR1&dq=info:nn8k7cYpe6QJ:scholar.google.com&ots=RMzSmRKD2y&sig=Y06PQmKPg2GmGnmCE1j4_cZtMRw