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Department of Electronic Systems  
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## Teaching

ICT Governance - ICT regulation, Universal Access and Services, Scarce resources,

ICT Business models

## Supervision

Assistant supervisor for Bachelor and masters students projects

## Publications

### **Digital Technology Advancements in Knowledge Management**

Gyamfi, A. (ed.) & Williams, I. (ed.), 2021, IGI global. 275 p.

### **Knowledge Management is Why E-Government Exists**

Williams, I., 2021, *Digital Technology Advancements in Knowledge Management*. IGI global, p. 217- 238 22 p.

### **Contemporary Application of ANT: An Introduction**

Williams, I., Sep 2020, *Contemporary Applications of Actor Network Theory*. Singapore: Palgrave Macmillan, p. 1-13 13 p.

### **Contemporary Applications of Actor Network Theory**

Williams, I. (ed.), Sep 2020, Singapore: Palgrave Macmillan. 283 p.

### **The Robots are here**

Williams, I., Sep 2020, *Contemporary Applications of Actor Network Theory*. Singapore: Palgrave Macmillan, p. 51-75 25 p.

### **Mobilization-Decision Theory**

Williams, I., Jul 2020, *Encyclopedia of Information Science and Technology, Fifth Edition (3 volumes)*. Khosrow-Pour, M. (ed.). Hershey Pennsylvania: IGI global, p. 1436-1450 15 p.

### **Cross-border provision of eGovernment Business services**

Falch, M., Williams, I. & Tadayoni, R., 17 Jun 2020.

### **Cross-border Provision of e-Government Business Registration Services**

Falch, M., Williams, I. & Tadayoni, R., 2020, p. 1-28. 28 p.

### **Cross-Chain Blockchain Networks, Compatibility Standards, and Interoperability Standards: The Case of European Blockchain Services Infrastructure**

Williams, I., 2020, *Cross-Industry Use of Blockchain Technology and Opportunities for the Future*. Hershey PA: IGI global, p. 150-165 16 p.

### **Cross-Industry Use of Blockchain Technology and Opportunities for the Future**

Williams, I. (ed.), 2020, Hershey PA: IGI global. 228 p.

### **E-Government, Yesterday, Today and the Future**

Williams, I., 2020, *E-Government: Perspectives, Challenges and Opportunities*. Sieben, A. (ed.). Hauppauge, NY, USA: Nova Science Publishers

### **The proposed Baltic Sea Region Cross-border Business Registration Service**

Williams, I., Falch, M. & Tadayoni, R., 2020, *2020 13th CMI Conference on Cybersecurity and Privacy (CMI) - Digital Transformation - Potentials and Challenges*. Williams, I. (ed.). IEEE, p. 1-8 8 p. 9322708

### **When Trust Is Not Enough to Mobilize Blockchains: A Mobilization-Decision Theory Perspective**

Williams, I., 2020, *Cross-Industry Use of Blockchain Technology and Opportunities for the Future*. Hershey PA: IGI global, p. 176-199 24 p.

### **Blockchain, trust and elections: A proof of concept for the ghanaiian national elections**

Williams, I. & Agbesi, S., 30 Jun 2019, *Handbook on ICT in Developing Countries: Next Generation ICT Technologies*. River Publishers, p. 117-145 29 p.

### **Handbook on ICT in developing countries: Next generation ICT technologies**

Skouby, K. E., Williams, I. & Gyamfi, A., 30 Jun 2019, River Publishers. 318 p.

### **Guest Editorial: Media Entrepreneurship and Web 3.0, the way passed, the way forward**

Salamzedeheh, Y., Williams, I. & Labafi, S., Jun 2019, In: *AD-minister*. 34, 2019, p. 7-13 7 p., 34.

### **Open data policies in social media industry: A model for convergence of views**

Labafi, S. & Williams, I., Jun 2019.

### **Blockchain, Trust And Elections: A Proof Of Concept For The Ghanaian National Elections**

Williams, I. & Agbesi, S., May 2019, *Handbook on ICT in developing countries: Next Generation ICT technologies*. Skouby, K. E., Williams, I. & Gyamfi, A. (eds.). River Publishers, p. 117-143 27 p. (River Publishers Series in Communications).

### **Handbook on ICT in Developing Countries: Next Generation ICT Technologies**

Skouby, K. E. (ed.), Williams, I. (ed.) & Gyamfi, A. (ed.), May 2019, River Publishers. (River Publishers Series in Communications).

### **Prospects and Challenges of Next Generation ICT Technologies in Developing Countries**

Skouby, K. E., Williams, I. & Gyamfi, A., May 2019, *Handbook on ICT in Developing Countries: Next Generation ICT Technologies*. Skouby, K. E., Williams, I. & Gyamfi, A. (eds.). Denmark: River Publishers, p. 1-10 10 p. (River Publishers Series in Communications).

### **Internationalization of e-Government Services**

Williams, I., Falch, M. & Tadayoni, R., 23 Jan 2019, *11th CMI International Conference: Prospects and Challenges Towards Developing a Digital Economy within the EU: Prospects and Challenges Towards Developing a Digital Economy within the EU, PCTDDE 2018*. IEEE, p. 19-31 13 p. 8624828

### **Big Data and Knowledge Sharing in Virtual Organizations**

Gyamfi, A. (ed.) & Williams, I. (ed.), 2019, USA: IGI global. 313 p.

### **Gender Gaps and the Social Inclusion Movement in ICT**

Williams, I. (ed.), Kretova, O. A. (ed.) & Layton, R. (ed.), 2019, IGI global. 325 p.

### **Personality and ICT Adoption: The call for more research**

Williams, I., 2019, *Gender Gaps and the Social Inclusion Movement in ICT*. Williams, I., Millward, O. & Layton, R. (eds.). IGI global, p. 104-129 26 p. (Advances in Human and Social Aspects of Technology (AHSAT) Book Series ).

### **Institutional Legitimacy and Digital Public Cross-Border Service Delivery between Denmark/Sweden and Denmark/Germany**

Williams, I., Falch, M. & Tadayoni, R., 26 Dec 2018, In: *Nordic and Baltic Journal of Information and Communications Technologies*. 2018, 1, p. 121-152 32 p., 8.

### **Cross-border eGovernment services in the Baltic Sea Region – Status and barriers**

Falch, M., Williams, I. & Tadayoni, R., 22 Dec 2018, In: *Nordic and Baltic Journal of Information and Communications Technologies*. 2018, 1, p. 83-100 18 p.

### **Community Broadband Networks and the Opportunity for E-Government Services**

Williams, I., Nov 2018, *Advanced Methodologies and Technologies in Government and Society*. Khosrow-Pour, M. (ed.). Hershey, PA: IGI global, p. 173-185 13 p.

### **Competitiveness of Small Media Firms**

Labafi, S. & Williams, I., Jun 2018, *Competitiveness in Emerging Market: Market Dynamics in the Age of Disruptive Technologies*. Khajeheian, D., Friedrichsen, M. & Mödingeri, W. (eds.). Springer Publishing Company, p. 263-282 20 p. (Contributions to Management Science).

### **Universal service in Vietnam: The role of government**

Do Manh, T., Falch, M. & Williams, I., Mar 2018, In: *Digital Policy, Regulation and Governance*. 20, 2, p. 178-190 13 p.

### **Community Based Networks and 5G Wi-Fi**

Williams, I., 2018, In: *Scientific Journal of the University of Szczecin*. 131, 2, p. 321-334 14 p.

### **Impact of Media Richness on Reduction of Knowledge-Hiding Behavior in Enterprises**

Labafi, S., Khajeheian, D. & Williams, I., 2018, *Evaluating Media Richness in Organizational Learning*. Gyamfi, A. & Williams, I. (eds.). IGI global, p. 135-148 14 p.

### **Media Richness, Knowledge sharing and computer programming by virtual Software teams**

Williams, I. & Gyamfi, A., 2018, *Evaluating Media Richness in Organizational Learning*. Gyamfi, A. & Williams, I. (eds.). IGI global, p. 115-134 20 p.

### **Guest Editorial: Special Issue on the challenges and prospects in the development and delivery implications of New E-Learning Application and Services**

Annan, N. K. (ed.) & Williams, I. (ed.), Oct 2017, In: *International Journal of e-Services and Mobile Applications*. 9, 4, p. v-vi 2 p.

### **Introduction**

Skouby, K. E., Williams, I. & Gyamfi, A., 31 Aug 2017, *Handbook on ICT in Developing Countries: 5G Perspective English*. River Publishers, p. 1-10 10 p.

### **Public-private-community organizational and financial strategy for developing 5G infrastructure and services in Rural Asia: The case of Thailand, Indonesia, and the Philippines**

Williams, I., 31 Aug 2017, *Handbook on ICT in Developing Countries: 5G Perspective English*. River Publishers, p. 277-312 36 p.

### **Evaluating Media Richness in Organizational Learning**

Gyamfi, A. (ed.) & Williams, I. (ed.), Aug 2017, Hershey, P.A: IGI global. 328 p.

**Examining actors into boosting the provision of universal service in the Vietnamese context**

Do Manh, T. & Williams, I., 26 Jun 2017, *14th International Telecommunications Society (ITS) Asia-Pacific Regional Conference: "Mapping ICT into Transformation for the Next Information Society"*, Kyoto, Japan, 24-27 June, 2017. Econstor, 8 p. (ITS Asia-Pacific Regional Conference).

**Handbook on ICT in Developing countries: 5G perspectives**

Skouby, K. E. (ed.), Williams, I. (ed.) & Gyamfi, A. (ed.), May 2017, Denmark: River Publishers. 361 p.

**Public-Private Community Organizational and financial strategy for developing 5G infrastructure and services in Rural Asia: The case of Thailand, Indonesia and the Philippines**

Williams, I., May 2017, *Handbook on ICT in Developing countries: 5G perspective*. Denmark: River Publishers, p. 277-311 34 p.

**Millennial Users in a 5G Context**

Sørensen, L. T., Williams, I., Khajuria, S. & Skouby, K. E., Mar 2017, *Millennial Users in a 5G Context*. www.wwrp.ch: Wireless World Research Forum (WWRF), Vol. 18. 22 p. (Wireless World Research Forum Outlook Series; No. 18).

**Millennial Users in a 5G context**

Sørensen, L. T., Williams, I., Khajuria, S. & Skouby, K. E., Mar 2017, In: *Wireless World Research Forum Outlook Series*. March 2017, 18, p. 1-15 15 p.

**A Public Management Framework for wireless broadband development in rural Sub-Saharan Africa**

Williams, I., Falch, M. & Tadayoni, R., 2017, In: *Marketing i Zarządzanie*. 4, 50, p. 89-116 28 p.

**Community Broadband Networks and the Opportunity for E-Government Services**

Williams, I., 2017, *Encyclopedia of Information Science and Technology*. 4 ed. IGI global, 12 p.

**Comparative analysis of Fiber-to-the-Home market liberalization in the EU: The case of Denmark, Sweden and the Netherlands**

Williams, I., 2017, In: *Współczesne Problemy Ekonomiczne*. 14, p. 89-112 24 p.

**A Study on Universal Service in Vietnam from an Institutional Perspective**

Do Manh, T., Falch, M. & Williams, I., 27 Jun 2016, *The 2016 ITS Biennial Conference, Taiwan June 26-29, 2016*. Econstor, 11 p.

**Analyzing the role of the PPP in the development of the Vietnamese Telecoms market**

Do Manh, T., Falch, M. & Williams, I., Mar 2016, *The 1st Africa Regional International Telecommunications Society (ITS) Conference, Accra, Ghana, March 10-11, 2016*. Econstor, 14 p.

**Community Based Networks and 5G**

Williams, I., Mar 2016, In: *Nordic and Baltic Journal of Information and Communications Technologies*. 2016, 1, p. 105-122 006.

**Co-financing of bottom-up approaches towards Broadband Infrastructure Development: A new opportunity for Universal Service Funding**

Williams, I., 2016, In: *Nordic and Baltic Journal of Information and Communications Technologies*. 2016, 1, p. 39-64 25 p., 003.

**New Investment Models for Broadband in Denmark and Sweden**

Falch, M., Henten, A., Tadayoni, R. & Williams, I., 2016, In: *Nordic and Baltic Journal of Information and Communications Technologies*. 2016, 1, p. 1-18 18 p., 001.

### **Public Demand Aggregation as a means of Bridging the ICT Gender Divide**

Williams, I., Kwofie, B. & Salifu, F., 2016, *Overcoming Gender Inequalities through Technology Integration*. Wilson, J. & Gapsiso, N. D. (eds.). IGI global, p. 123-143 21 p.

### **The challenges of replicating Western E-government Structures in Ghana**

Salifu, F. & Williams, I., 2016, *The 1st Africa Regional ITS Conference in Accra, Ghana, March 10-11*. Econstor

### **The role of public initiatives facilitating investments in broadband infrastructures: A comparative study of developments in Denmark and Sweden**

Falch, M., Tadayoni, R., Henten, A. & Williams, I., 10 Nov 2015, *Telecommunication, Media and Internet Techno-Economics (CTTE), 2015 Conference of IEEE*, 5 p. (Conference of Telecommunication, Media and Internet Techno-Economics (CTTE). Proceedings.).

### **Analysis of Public Private Interplay Frameworks in the Development of Rural Telecommunications Infrastructure: A Multiple-Case Study**

Williams, I., 2015, Aalborg Universitetsforlag. 829 p. (Ph.d.-serien for Det Teknisk-Naturvidenskabelige Fakultet, Aalborg Universitet).

### **The role of Stakeholders on implementing Universal Services in Vietnam**

Do Manh, T., Falch, M. & Williams, I., 2015, *26th European Regional Conference of the International Telecommunications Society (ITS): Madrid, Spain, 24-27 June 2015*. Germany: Econstor, 18 p. (ITS Europe Congress).

### **Legislative Framework Required for Africa's M-Economy**

Williams, I., 1 Jul 2014, In: *Technology Banker*. July/August, p. 28 - 30

### **The Impact Of Liberalization On The Mobile Telephony Market In Africa: The Cases Of Ghana, Nigeria And Kenya**

Williams, I. & Kwofie, B., 31 Mar 2014, *The African Mobile Story*. Williams, I. & Skouby, K. E. (eds.). Aalborg: River Publishers, p. 17 - 40 34 p.

### **The African Mobile Story**

Skouby, K. E. (ed.) & Williams, I. (ed.), 21 Mar 2014, Aalborg: River Publishers. 294 p. (The River Publishers' Series in Communications).

### **PPPs and future broadband infrastructure**

Williams, I. & Falch, M., 2014, *Commonwealth Governance and Growth*. Robertson, A. (ed.). Cambridge, UK: Nexus Strategic Partnerships, p. 67-70

### **The Impact of PPIs in the Development of Broadband and the Way Forward: Ghana's Case**

Williams, I., Adjin, D. M. O. & Tsvivor, K., Oct 2013, In: *Communications et Strategies*. 91, p. 81-102 91.

### **Comparative Analysis between WIMAX and Fiber Optics Backhaul Network Deployment in Developing Countries - The Case of Ghana**

Adjin, D. M. O. & Williams, I., 2013.

### **Enhancing rural connectivity through an extended internet cafés business models**

Williams, I., Gyaase, P. O. K. & Falch, M., 2013, *Econstor*. Econstor, 18 p.

### **Regulatory frameworks and Implementation patterns for Mobile Money in Africa: The case of Kenya, Ghana and Nigeria**

Williams, I., 2013.

### **Self-Interest in Innovation Diffusion Decision Process: The Case of Extending Broadband Internet Services to Rural Areas of Ghana**

Williams, I. & Gyaase, P. O. K., 2013, In: *ZN NR 763 Ekonomiczne Problemy uslug NR 105*. 2, p. 45-57 11 p.

**Infrastructure Development: Public Private Partnership Path for Developing Rural Telecommunications in Africa**  
Williams, I., Jun 2012, In: Journal of Technology Management & Innovation. 7, 2, p. 63-72

**Is it possible for every Ghanaian to have access to broadband at home?**  
Williams, I., 5 Jan 2012, In: MyJoy news online.

**Public Private Partnerships and Next Generation Networks**

Williams, I. & Falch, M., 2012, *Telecommunication Economics: Selected Results of the COST Action ISO605 Econ@Tel*. Hadjiantonis, A. M. & Stiller, B. (eds.). Springer, p. 100-107 (Lecture Notes in Computer Science, Vol. 7216).

**Telecom Policy Innovation: The role of Free Spectrum and Telecommunication Development in Rural Ghana**  
Williams, I., Oct 2011, In: Journal of Technology Management & Innovation. 6, 3, p. 93-105 13 p.

**Analysis of the Proposed Ghana Broadband Strategy**

Williams, I. & Botwe, Y., 2010, Germany: GRIN GmbH. 160 p.

## Activities

**11TH CMI INTERNATIONAL CONFERENCE**

Idongesit Williams (Organizer)  
29 Nov 2018 → 30 Nov 2018

**3rd CMI-GTUC International Conference**

Idongesit Williams (Organizer)  
27 May 2014 → 28 May 2014

**7th CMI Conference 2014**

Idongesit Williams (Organizer)  
17 Nov 2014 → 18 Nov 2014

**Academic Writing and Getting Your Research Into Journals Course**

Idongesit Williams (Participant)  
27 Apr 2011 → 29 Apr 2011

**AD-minister (Journal)**

Yashar Salamzede (Editor), Idongesit Williams (Editor) & Somayeh Labafi (Editor)  
Jun 2019

**Business model case**

Idongesit Williams (Lecturer)  
7 Feb 2012

**CMI International conference**

Idongesit Williams (Participant)  
24 Nov 2011 → 25 Nov 2011

**CMI PhD Seminar**

Idongesit Williams (Speaker)  
13 Apr 2012

**CMI seminar**

Idongesit Williams (Participant)

29 Apr 2011

**CTIF/CWI Conference**

Idongesit Williams (Participant)  
24 Oct 2011

**Culture and User Perception to designed systems: The African Perspective**

Idongesit Williams (Lecturer)  
15 Mar 2012

**Design of Research Project between STEM and Social/Human sciences**

Idongesit Williams (Participant)  
21 Mar 2012 → 22 Mar 2012

**Ghana ICT Conference -2011**

Idongesit Williams (Speaker)  
6 Dec 2011 → 7 Dec 2011

**IGI global (Publisher)**

Idongesit Williams (Editor) & Nana Annan (Editor)  
Oct 2017 → Dec 2017

**Introduction to University Pedagogy**

Idongesit Williams (Participant)  
19 Apr 2012 → 3 May 2012

**IT and Media Policy and Regulation Course**

Idongesit Williams (Participant)  
14 Mar 2011 → 17 Mar 2011

**Key note address: North-South research collaboration: Challenges and the way forward**

Idongesit Williams (Speaker)  
23 May 2019

**Library Information Management**

Idongesit Williams (Participant)  
12 May 2011

**Managing and Regulating Organizations with High Uncertainty: New Ideas About Resilience**

Idongesit Williams (Participant)  
30 Apr 2011

**Network Security**

Idongesit Williams (Participant)  
29 Feb 2012

**PhD Seminar on Project design-**

Idongesit Williams (Other)  
17 Jun 2011

**Political Economy of ICT**

Idongesit Williams (Participant)  
16 Aug 2011 → 21 Aug 2011

**Professional Communication**

Idongesit Williams (Participant)  
8 Feb 2012 → 10 Feb 2012

**Seminar on 'A Hybrid imagination. Science, Technology and Culture'**

Idongesit Williams (Participant)  
12 Oct 2011

**Study Plan Conference: Presentation of Thesis Plan**

Idongesit Williams (Speaker)  
15 Sep 2011 → 16 Sep 2011

**Telecom Reform Conference**

Idongesit Williams (Participant)  
22 Mar 2012

**Theories of Science and Research**

Idongesit Williams (Participant)  
28 Mar 2012 → 30 Mar 2012

**The PhD course Design of research projects between STEM and the social/human sciences**

Idongesit Williams (Participant)  
21 Mar 2012 → 22 Mar 2012

**The rise and fall of Ghanaian hiplife.com - presentation on business models**

Idongesit Williams (Lecturer)  
3 Oct 2011

**Universal Access**

Idongesit Williams (Lecturer)  
20 Feb 2012

**Universal Access and Services of ICTs**

Idongesit Williams (Lecturer)  
31 Oct 2011

**Why Regulate**

Idongesit Williams (Lecturer)  
5 Sep 2011

**Workshop on Mobile Learning**

Idongesit Williams (Participant)  
29 Nov 2011

**Writing and reviewing scientific papers**

Idongesit Williams (Participant)  
21 May 2012 → 24 May 2012