

CURRICULUM VITAE

Senior Professor Kashem Muttaqi, FIEAust, FIET, FIEEE

Director, Australian Research Council (ARC) Industrial Transformation Training Centre in Energy Technologies for Future Grids (ARC Future Grids Training Centre)
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1.0 EDUCATION

- Ph.D., 2001, Multimedia University (MMU), Malaysia.
- M.Eng.Sc., Electrical Power Engineering, 1997, University of Malaya (UM), Malaysia.
- B.Sc.Eng., Electrical and Electronic Engineering, 1993, Bangladesh University of Engineering and Technology (BUET), Bangladesh.

POSTDOCTORAL RESEARCH TRAINING:

- Queensland University of Technology (QUT), Brisbane, Australia, 2000 – 2002 (two years).
- University of Tasmania (UTAS), Hobart, Australia, 2002 – 2003 (one year).

2.0 PROFESSIONAL EXPERIENCE

Time Period	Position	Organisation
January 2022 – Current	Senior Professor	University of Wollongong, New South Wales, Australia
January 2016 – December 2021	Professor	University of Wollongong, New South Wales, Australia
January 2008 – December 2015	Associate Professor	University of Wollongong, New South Wales, Australia
August 2002 – January 2008	Research Fellow/Lecturer/Senior Lecturer	University of Tasmania, Hobart, Australia
September 2000 – August 2002	Research Fellow/Visiting Fellow	Queensland University of Technology, Brisbane, Australia
September 1997 – August 2000	Lecturer	Multimedia University, Selangor, Malaysia
September 1996 – September 1997	Electrical Executive	KTA Tenaga Nasional (Consulting Engineers), Kuala Lumpur, Malaysia
October 1994 – September 1996	Researcher	University of Malaya, Kuala Lumpur, Malaysia

3.0 SUMMARY OF CONTRIBUTIONS

- **Deputy Editor-in-Chief**, IEEE Transactions on Industry Applications since 2022.
- Working as the **Director** of the ARC Training Centre in Energy Technologies for Future Grids (Future Grids Training Centre), University of Wollongong (UOW).
- Working as the **Director** of the Australian Power and Energy Research Institute (APERI), University of Wollongong (UOW).
- Working currently as the **Discipline Leader for Electrical Engineering** at the School of Electrical, Computer and Telecommunications Engineering, University of Wollongong (UOW).
- Worked as the **Cluster Head of 09 Engineering** at the Faculty of EIS, UOW (2019-2021).
- Worked as an **Editorial Board Member** of IEEE Transactions on Sustainable Energy (2020-2022).

- Working as an **Associate Editor** of IEEE Transactions on Industry Applications and IEEE Industry Applications Magazine since 2012.
- Worked as a **Technical Editor** of IEEE Transactions on Applied Superconductivity – Special Issue on Applied Superconductivity and Electromagnetic Devices (ASEMD), 2018.
- Working as the **Chair of IEEE IAS - Industrial Automation and Control Committee (IACC)**.
- Working as a **Committee Admin (CA)** for Paper Invitations of IACC (2021-2023) – IEEE IAS.
- Worked as the **Technical Committee Paper Review Chair (TCPRC)** – IEEE IAS Industrial Automation and Control Committee (IACC) (2020-2021).
- Worked as the **Vice Chair - Publications** for IAS Industrial Automation and Control Committee (IACC) for 2020-2021. Worked as the **Secretary** for IAS IACC (2018-2019).
- Working as a Member for the IEEE Transactions on Industry Applications (TIA) - Special Issue (SI) Proposal Review Committee.
- Worked as a **Session Organizer** for IEEE IAS Annual Meeting – Industrial Automation and Control Committee (IACC) (2012-2019).
- **Keynote Speaker**, 8th International Electric Vehicle Conference (EVC2023), 21st-23rd June 2023, Edinburgh, UK.
- **Keynote Speaker**, The 5th International Conference on Environment, Resources and Energy Engineering (EREE2023), 15-17 June 2023, Bangkok, Thailand.
- **Chief Guest and Keynote Speaker** for International Symposium on Renewable Energy, Energy Storage and Power Quality 2020 held on 20 January 2020 at RUET, Rajshahi, Bangladesh.
- **Keynote Speaker** for International Conference on Sustainable Technologies for Industry (STI) 2019 held on 24-25 December 2019 at Green University of Bangladesh, Dhaka, Bangladesh.
- **Keynote Speaker** for 3rd IEEE International Conference on Telecommunications and Photonics (ICTP) 2019 held on 28-30 December 2019 at BUET, Dhaka, Bangladesh.
- **Keynote Speaker** for IEEE International Conference on Power Electronics, Smart Grid and Renewable Energy (IEEE PESGRE 2020) to be held on 2-4 January 2020 at Kerala, India.
- **Keynote Speaker** for International Conference on Smart Energy Systems and Electric Vehicles (ICSESEV2020) to be held on 8-10 January 2020 at Vijayawada, India.
- **Distinguished Keynote Speaker** for 5th International Conference on Electrical Engineering and Information & Communication Technology (ICEEICT), 18-20 Nov. 2021, Dhaka, Bangladesh.
- **Invited Speaker** for the International Conference on Electrical and Computer Engineering (ICECE2014), Dhaka, Bangladesh.
- **General Chair, IEEE International conference in Energy Technologies for Future Grids (IEEE ETFG 2023)**, Wollongong, Australia 3-6 December 2023 Weblink: <https://attend.ieee.org/etfg-2023/>
- **Technical Chair** for the 2015 Australasian Universities Power Engineering Conference (AUPEC2015), Wollongong Australia.
- **Technical Chair** for the 2016 IEEE International Conference on Power System Technology (PowerCon2016), Wollongong Australia.
- Working closely with IEEE Industry Application Society (IAS) Industry Automation and Control Committee (IACC) working group as an active member. Also working with IEEE Power and Energy Society (PES) Energy Development & Power Generation Committee as active member.
- IEEE PES GM2020 **Panel Session Moderator** for the Panel “Challenges with High Penetration Solar PV: Causes, Impacts and Potential Mitigation”.
- Technical Session Best Paper Presentation Award 2015 IEEE IAS Annual Meeting, Technical Session Best Paper Award 2014 IEEE IAS Annual Meeting, First Place Paper Award 2013 IEEE IAS IACC, Third Place Paper Award 2013 IEEE IAS IACC, Third Place Paper Award 2012 IEEE IAS IACC, Best Paper Award in the area of “Power generations systems and grid interfaces” among the papers published in IEEE Transactions on Energy Conversion in the Period 2019–2020, Third Place Paper Award in 2021 IEEE Texas Power and Energy Conference.
- Worked as a **Postgraduate Coursework Degree Coordinator** at the School of Electrical, Computer and Telecommunications Engineering, University of Wollongong from 2008 to 2010.

- Worked as a member of **CEGRE AP6 Panel – Distribution Systems and Dispersed Generation** (2008-2013).
- Worked as a **Deputy-Director** of the Centre for Renewable Energy and Power Systems (CREPS) at the University of Tasmania (UTAS) for the period of 2006-2008.
- Worked as an **Electrical Executive** (Consulting Engineer) with KTA Tenaga Ltd. (Consulting Engineers), Malaysia (2006-2007) and carried out industrial consultancy in power engineering.
- Developed and delivered **two professional development courses**: “Renewable and Distributed Power Generation” for Endeavour Energy engineers and professionals, 2009, and “Renewable and Distributed Power Generation and Utilisation” for engineers and professionals, 2011.
- Awarded **Ten (10) Australian Research Council (ARC) grants** during last 15 years, including 1 ARC ITRP, 3 ARC Discovery, 5 ARC Linkage, 1 ARC LIEF, and excluding 1 ARENA grant.
- **Total amount of research grants attracted (jointly with others) exceeds \$18 million.** Funding agencies are Australian Research Council (ARC), ARENA, Hydro Tasmania, Transend Networks, Aurora Energy, Tasmanian Electro Metallurgical Company Pty Ltd (TEMCO), Essential Energy, TransGrid, Optus, CSIRO, UTAS, UOW and others.
- Supervised **29 Higher Degree Research Students (24 PhD and 5 Master) to completion**, and currently supervising 12 PhD students.
- Examined around **16 PhD theses and 4 Master’s degree theses** in the area of Power Engineering.
- Supervised **10 Postdoctoral Research Fellows** and 5 Visiting Fellows. Also, 3 Research Fellow will join soon.
- Acted as a **Session Chairperson/Session Organiser** for the conference sessions for many conferences/Annual Meeting including IEEE Industry Application Society (IAS) meetings for five years, International Conference on Artificial Intelligence in Science and Technology (AISAT2004), International Conference on Power Systems (ICPS2004), and Australasian Universities Power Engineering Conference (AUPEC) for many times.
- **Fellow of IEEE** (Institute of Electrical and Electronic Engineers) and associated with IEEE Industry Applications Society, IEEE Power & Energy Society, IEEE Industrial Electronics Society, and IEEE Power Electronics Society.
- Established **two IEEE Student Chapters** - IEEE PES Student Chapter in 2012 and IEEE IAS Student Chapter in 2013 at UOW and Serving as the **Chapter Advisor** for both Chapters.
- **Published 515 technical papers** (including 10 Book Chapters, 273 Journal Papers and 232 Conference Papers) in the field of electrical power engineering. This includes 162 papers in IEEE Transactions/journals. All are peer-reviewed and 40 are cited more than 100 times (according to Google Scholar).
- **Regular reviewer** of international journals including IEEE Transactions, IET Journals, EPSR and reviewed several technical papers for conference proceedings.
- Was a member of organising committee of the Australasian Universities Power Engineering Conference (AUPEC 2005, AUPEC2015), International Conference on Harmonics and Quality of Power (ICHQP 2008), IEEE POWERCON 2016, IEEE SmartComm 2016 and others.
- Awarded **“Teaching Merit Certificate”** in 2004 for excellent teaching at the University of Tasmania. Published a teaching paper in AAEE2006.
- **Citation** for the research papers exceeds **15,812** with **h-index: 65**, i10-index: 269 according to Google Scholar; and **11,178** with **h-index: 56** according to Scopus (cited 26 May 2023).
- **Worked as UOW Academic Lead** for NUW Alliance – Advanced Energy Integration Initiative.

4.0 THREE HIGHLY CITED ARTICLE (cited 26 May 2023):

1. M E Haque, M Negnevitsky, K M Muttaqi “A novel control strategy for a variable-speed wind turbine with a permanent-magnet synchronous generator”, 2008 IEEE industry applications society annual meeting, IEEE Transactions on Industry Applications, 2010, 46(1), pp. 331–339, **Citation: 877/Google Scholar, 505/Scopus.**
2. K Zou, AP Agalgaonkar, KM Muttaqi, S Perera, “Distribution system planning with incorporating DG reactive capability and system uncertainties”, IEEE Transactions on Sustainable Energy, 2012, 3(1), pp.112–123, **Citations: 469/Google-Scholar, 333/Scopus.**
3. MJE Alam, KM Muttaqi, D Sutanto, “Mitigation of rooftop solar PV impacts and evening peak support by managing available capacity of distributed energy storage systems,” IEEE transactions on power systems 28(4), 3874-3884, 2013. **Citations: 384/Google Scholar, 269/Scopus.**

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