

# NAN CHEN PHD, AFAHE, MCIGRE, MIEEE, MIET

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## ABOUT

Dr Nan Chen is an academic staff with the School of Engineering of the University of Birmingham. Holding AFAHE, he develops and delivers high-quality teaching activities. He teaches several MSc Electrical Power Systems modules and supervises undergraduate and postgraduate students' projects. His research interests include HVDC modelling and control and has published several journal articles. He has 5-year working experience as an engineer. He is the Secretary and Treasurer of CIGRE UK NGN, NGN supporter of CIGRE UK B4, and Communications Officer of the IEEE PES UK&I Chapter. Besides, he serves as the reviewer for several high-quality journals.

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## QUALIFICATIONS

**2022** PhD in Electronic, Electrical and Systems Engineering, University of Birmingham, Birmingham, UK

**2018** MSc in Electrical Power Systems with Distinction, University of Birmingham, Birmingham, UK

**2012** BEng in Electrical Engineering and Automation, Huazhong University of Science and Technology (HUST), Wuhan, China

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## WORKING EXPERIENCE

**03/2023 - Present** Teaching Fellow, *University of Birmingham, UK*

- **Deliver and develop MSc courses** in Electrical Power Systems Engineering at a Master's level, including giving lecture, marking, assessment and/or examination
- **Supervise** final-year undergraduate and postgraduate students' individual projects
- **Assess and mark** undergraduate courses including individual work and group projects
- Contribute to delivering research projects, as well as generating fundings and applying for grants

**01/2019 - 10/2022** Postgraduate Teaching Assistant, *University of Birmingham, UK*

- Assisted academics with demonstrated-based **lab sessions** for MSc Electrical Power Systems modules
- **Delivered tutorial sessions**, marked assignments, provided feedback, and prepared course materials

**08/2012 - 08/2017** Engineer, *Shanghai Electric Machinery Co., Ltd., China*

- Developed new series and next generation of motor/generator products, and guided manufacturing
- Responsible for electrical and mechanical design, and evaluating technical and economic performance
- Applied for patents based on innovative solutions to practical engineering issues

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## EXTERNAL ENGAGEMENTS AND ACTIVITIES

- Reviewer, IEEE Transactions on Power Delivery,

- **Reviewer, CSEE Journal of Electrical Power System**
- **Reviewer, Frontiers in Energy Research, section Smart Grid**
- **Secretary & Treasurer, CIGRE UK NGN (12/2022 - Present)**
  - Responsible for secretarial duties for CIGRE UK NGN such as meeting records, activity coordination
  - Build and maintain Knowledge Management System (KMS) and manage documentation process
  - Manage CIGRE UK NGN budget including planning, guiding reimbursement, and reports
  - Support CIGRE UK Technical Committee and Study Committees such as help organise liaison meetings
- **NGN Supporter, CIGRE UK B4 Study Committee (06/2023 - Present)**
  - Assisted organising the CIGRE UK B4 Liaison Meeting and support the SC communications
- **Communications Officer, IEEE Power and Energy Society (PES) UK & Ireland Section (12/2022 - Present)**
  - Develop and implement effective communications for the internal and external teams and departments, and promote events and activities organized by the section and local chapters.
- **Chair, IEEE student branch and IEEE Power and Energy Society (PES) student chapter at the University of Birmingham (04/2022 - 02/2023)**
  - Developed team work and leadership; invited distinguished lecturers and industry experts to academic activities; organized academic-industrial career networking event and presentation competitions; applied for fundings; contributed to Women in Power by setting up related officer position; etc.
- **Vice-Chair, IEEE student branch and IEEE Power and Energy Society (PES) student chapter at the University of Birmingham (11/2020 - 04/2022)**
  - Cooperated with team members to organise multiple activities throughout the year, including technical and non-technical events; responsible for promoting and reporting student activities, etc.

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## PUBLICATIONS AND INVITED TALKS

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### Journal Articles:

- Z. Li, Y. Xue, Y. Tang, **N. Chen** and C. Yang, "Adaptive Advancement Angle Compensation for Suppressing Commutation Failures during Rectifier- and Inverter-Fault Recovery," in *IEEE Transactions on Power Delivery* (Early access), DOI: 10.1109/TPWRD.2023.3309641.
- **N. Chen**, Y. Yang, L. Li, C. Cui, Y. Xue and X. -P. Zhang, "Commutation Failure Prediction for Multi-Infeed LCC-HVDC Systems Under Asymmetrical Faults," in *IEEE Transactions on Power Delivery*, vol. 38, no. 3, pp. 2034-2046, Jun. 2023
- **N. Chen**, K. Zha, H. Qu, F. Li, Y. Xue and X. -P. Zhang, "Economy Analysis of Flexible LCC-HVDC Systems with Controllable Capacitors," in *CSEE Journal of Power and Energy Systems*, vol. 8, no. 6, pp. 1708-1719, Nov. 2022.

### Invited Talks:

- " Emerging Hybrid HVDC Technologies", on CIGRE UK B4 Liaison meeting, 4th Oct. 2023, and on IEEE PES YP Powering the Future Summit 2023, 12th Nov. 2023.