DR. SURAJIT CHATTOPADHYAY

FIE (INDIA) | C.Eng. (ENGINEERING COUNCIL–UK) | MIET | IEEE MEMBER

Associate Professor, Department of Electrical Engineering

Ghani Khan Choudhury Institute of Engineering & Technology (GKCIET), Malda, West Bengal

PROFESSIONAL PROFILE

Dr. Surajit Chattopadhyay is an Associate Professor in the Department of Electrical Engineering at GKCIET. His academic and research work focuses on power systems, electric power quality, signal analysis, fault diagnosis, smart-grid-related technologies, electric mobility, overhead electric power lines, sensors and IoT applications. He has extensive teaching and research experience and has contributed books, journal and conference papers, patents and professional/editorial activities.

ACADEMIC QUALIFICATIONS

Qualification	Discipline	Institution / Year
Ph.D. (Technology)	Technology	University of Calcutta, 2010
M.Tech.	Electrical Engineering	University of Calcutta, 2003
B.E.	Electrical Engineering	University of Calcutta, 2001
B.Sc. (Hons.)	Physics	Ramakrishna Mission Vidyamandir, Belur Math

PROFESSIONAL EXPERIENCE

Position	Organization
Associate Professor	GKCIET
Associate Professor	MCKV Institute of Engineering
Assistant Professor	Hooghly Engineering & Technology College
Guest Lecturer	University of Calcutta
Senior Lecturer	Academy of Technology
Lecturer	JIS College of Engineering

AREAS OF SPECIALIZATION

Power Systems • Power Quality • Signal Analysis • Fault Diagnosis • Smart Grids • Electric Mobility • Overhead Power Lines • Sensors • UAV/IoT Applications • Energy/Power-System Monitoring

PROFESSIONAL MEMBERSHIPS & CREDENTIALS

- Fellow, The Institution of Engineers (India) [FIE(I)].
- Chartered Engineer (CEng), Engineering Council, United Kingdom.
- Member, Institution of Engineering and Technology (IET), United Kingdom.
- Member, IEEE.
- Executive Committee Member, IET Kolkata Network; former Hon. Secretary and YP Chair of the network.
- Former Member, IET Communities Committee – South Asia.

RESEARCH, PUBLICATIONS & SCHOLARLY CONTRIBUTIONS

The official GKCIET profile records a substantial body of scholarly work, including books, international and national journal papers, and international/national conference publications. The earlier GKCIET publication record lists 107 publications in its categorized record, while Dr. Chattopadhyay's professional profile describes approximately 155 papers across journals and conferences and six books. The figures refer to different profile/update points and are therefore retained as source-specific figures rather than merged.

SELECTED BOOKS

- Electric Power Quality — Springer, 2011 (with M. Mitra and S. Sengupta).
- Induction Motor Fault Diagnosis: Approach through Current Signature Analysis — Springer, 2016 (with S. Karmakar, M. Mitra and S. Sengupta).
- Modelling and Simulation in Science, Technology and Engineering Mathematics — Springer, 2017 (edited volume).
- Overhead Electric Power Lines: Theory and Practice — IET, London, 2021 (with A. Das).
- Nanogrids and Picogrids and their Integration with Electric Vehicles — IET, London, 2022.
- Basic Electrical Engineering — Narosa Publishing House, New Delhi, 2010 (with S. Sengupta).

SELECTED RESEARCH PUBLICATIONS

- Discrete-Wavelet-Transform and Stockwell-Transform-Based Statistical Parameters Estimation for Fault Analysis in Grid-Connected Wind Power System — IEEE Systems Journal, 2020.
- Skewness Scanning for Diagnosis of a Small Inter-Turn Fault in Quadcopter's Motor based on Motor Current Signature Analysis — IEEE Sensors Journal, 2021.
- ICA-Feature-Extraction-Based Fault Identification of Vehicular Starter Motor — IEEE Sensors Letters, 2023.
- String Fault Detection in Solar Photo Voltaic Arrays — IETE Journal of Research, 2021.
- Measurement of Harmonic Distortion and Skewness of Stator Current of Induction Motor at Crawling in Clarke Plane — IET Science, Measurement & Technology, 2014.
- Harmonic Power Distortion Measurement in Park Plane — Measurement (Elsevier), 2014.
- Symmetrical Components and Current Concordia based Assessment of Single Phasing of an Induction Motor — International Journal of Electrical Power & Energy Systems, 2012.

PATENTS & INTELLECTUAL CONTRIBUTIONS

- Remote multi-staired wavelet decomposition-based temperature navigation for solar PV arrays — Indian Patent Journal, application 202231067834, published 02.12.2022.
- Loss of solar-generator-string (SGS) detector — Indian Patent Journal, application 202231070421, published 09.12.2022.
- A further patent/publication record is reported in the professional profile, including work related to vehicle electrical faults.

AWARDS & RECOGNITION

- Best Paper recognition, MS-04, AMSE, France, 2004.
- Chartered Engineer (CEng), Engineering Council – UK, 2013.
- Fellow, Institution of Engineers (India), 2018.
- Outstanding Reviewer recognition, IEEE Transactions on Instrumentation and Measurement, 2020.
- Railway Board's Prize, India, 2021.

EDITORIAL / ACADEMIC SERVICE

- Guest Editor, IET Nanodielectrics.
- Guest Editor, IET Smart Grid.
- Reviewer/editorial and professional activities with IET and IEEE communities.

CONTACT & PROFESSIONAL PROFILE

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GKCIET Faculty ID	GKCIET/0065
Researcher identifiers	ORCID: 0000-0001-5775-061X | Scopus Author ID: 56013898000
Research Profile	Google Scholar profile: user=P7feE0sAAAAJ

Source note: Prepared from the supplied Google Scholar profile reference and cross-checked against official GKCIET faculty/publication records and Dr. Chattopadhyay's professional profile. Google Scholar was not directly accessible during retrieval, so no live citation count or h-index has been asserted.