Dr. Rajib Malik
Assistant Professor
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Joined the Institute in August 2023

About

Hello, welcome to my home page. I am an Assistant Professor in the Department of Electronics and Communication Engineering at Indian Institute of Information Technology, Guwahati. I joined IIITG in August, 2023. I have received PhD and M.E. degree from Jadavpur University in 2019 and 2013, respectively. I have worked as an Assistant Professor at Institute of Engineering and Management (IEM), Kolkata, India from January 2020 to August 2023.

Research Interests

- Embedded System,
- Internet of Things
- Power Electronics
- Smart Lighting System
- Photovoltaic Conversion

Teaching:

At IIITG, I have taught the following courses:

- EC101 Digital Design
- EC667 SoC with IoT Applications

Publication

Conference

R. Malik, S. Mondal, N. K. Saha and S. Bhunia, "A CCT Tunable Daylight-Integrated LED Lighting System for the Improvement of Health and Well-Being of Human Beings", 2023 IEEE Sustainable Smart Lighting World Conference & Expo (LS18), (2023), pages. 1-5, Mumbai, India

S. Maiti, S. Sonar, S. Mondal and R. Malik, "A Second Order Sliding Mode Control of Z-Source Inverter Using Simple Boost Control Method", Innovations in Energy Management and Renewable Resources (IEMRE 2022), Kolkata, India, (2022), pages. 25-27,

R. Malik, K. K. Ray and S. Mazumdar, "A Maximum Power Point Tracking VRLA Battery Charger Based on Modified Perturb and Observe Technique", 2019 IEEE Region 10 Symposium (TENSYMP), Kolkata, India, (2019), pages. 287-291,

R. Malik, S. Saha, S.Mazumdar,, "Development of Discrete Component based LED Driver with RGB PWM dimming", presented in International Conference of LUX Pacifica 2015, Kolkata, (2015), pages. 635-641,

R. Malik, S. Mazumdar, "Development of an intelligent hybrid (solar & conventional AC) controller for solar street or home lighting system", presented in International Conference on Emerging Trends in Lighting Concepts for a Greener World, (2013), Light India International , Chennai, India

Journal

R. Malik, K. K. Ray, and S. Mazumdar, "A Low-Cost, Wide-Range, CCT-Tunable, Variable-Illuminance LED Lighting System", LEUKOS,VOL. 16, NO. 2, (2020), pages. 157–176,

R. Malik, K. K. Ray, and S. Mazumdar, "Wide-Range, Open-Loop, CCT and Illuminance Control of an LED Lamp Using Two-Component Color Blending", IEEE Transactions on Power Electronics,vol. 33, no. 11, (2018), pages. 9803-9818, IEEE

R. Malik, and S. Mazumdar, "DEVELOPMENT OF CCT TUNABLE LED LIGHTING SYSTEM USING RED-BLUE-WHITE LED", Light & Engineering,vol- 25, no-4, (2017), pages. 99-108,

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