

Publications

• Journal Papers

1. **Abdul Motin Howlader**, Dilip Patel, and Robert Gammariello, "A Data-Driven Approach for Instantaneous Vehicle Emission Forecasting Using Integrated Deep Neural Network," *Transportation Research Part D: Transport and Environment*, vol. 116, March 2023.
2. **Abdul Motin Howlader**, Staci Sadoyama, Leon R. Roose, and Yan Chen, "Active Power Control to Mitigate Voltage and Frequency Deviations for the Smart Grid Using Smart PV Inverters," *Applied Energy*, vol. 258, Jan 2020.
3. Lei Liu, Tomonobu Senjyu, Takeyoshi Kato, **Abdul Motin Howlader**, Paras Mandal, and Mohammed Elsayed Lotfy, "Load frequency control for renewable energy sources for isolated power system by introducing large scale PV and storage battery," *Energy Reports*, vol. 6, no. 9, pp. 1597-1603, 2020.
4. Mark Kipngetich Kiptoo, Mohammed Elsayed Lotfy, Oludamilare Bode Adewuyi, Abdul Conteh, **Abdul Motin Howlader**, and Tomonobu Senjyu, "Integrated approach for optimal techno-economic planning for high renewable energy-based isolated microgrid considering cost of energy storage and demand response strategies," *Energy Conversion and Management*, vol. 215, 2020.
5. Susowake Yuta, Hasan Masrur, Tetsuya Yabiku, Tomonobu Senjyu, **Abdul Motin Howlader**, Mamdouh Abdel-Akher, and Ashraf M. Hemeida, "A Multi-Objective Optimization Approach towards a Proposed Smart Apartment with Demand-Response in Japan" *Energies*, vol. 13, no. 1, 2020.
6. Charles Komboigo, Naomitsu Urasaki, Tomonobu Senju, Mohammed Elsayed Lotfy, **Abdul Motin Howlader**, and Manoj Datta, "Load Frequency Control Design for Two Area Interconnected Power System with DFIG Based Wind Turbine" *International Journal of Emerging Electric Power Systems*, vol. 20, no. 6, 2019.
7. Mikaeel Ahmadi, Mohammed E. Lotfy, Ryuto Shigenobu, **Abdul Motin Howlader**, and Tomonobu Senjyu, "Optimal Sizing of Multiple Renewable Energy Resources and PV Inverter Reactive Power Control Encompassing Environmental, Technical, and Economic Issues," *IEEE Systems Journal*, vol. 13, no. 3, pp. 3026-3037, June 2019.
8. Bode Adewuyi, Ryuto Shigenobu, Kazuki Ooya, Tomonobu Senjyu, and **Abdul Motin Howlader**, "Static voltage stability improvement with battery energy storage considering optimal control of active and reactive power injection," *Electric Power Systems Research*, vol. 172, pp. 303-312, July 2019.
9. Mikaeel Ahmadi, Mohammed E. Lotfy, **Abdul Motin Howlader**, Atsushi Yona, and Tomonobu Senjyu, "Centralized Multi-Objective Integration of Wind Farm and Battery Energy Storage System in Real Distribution Network Considering Environmental, Technical and Economic Perspective," *IET Generation, Transmission and Distribution*, vol. 13, no. 22, pp. 5207-5217, 2019.

10. Yaqobi, Mohammad A., Hidehito Matayoshi, Mir S.S. Danish, Mohammed E. Lotfy, **Abdul Motin Howlader**, and Senjyu Tomonobu, "Low-Voltage Solid-State DC Breaker for Fault Protection Applications in Isolated DC Microgrid Cluster," *Applied Sciences*, vol. 9, no. 4, 2019.
11. **Abdul Motin Howlader**, Staci Sadoyama, Leon R. Roose, and Saeed Sepasi, "Volt-Var Control for a Smart Grid System Using Smart PV-Inverter: An Experimental Analysis," *Renewable Energy*, vol. 127, pp. 145-157, November 2018.
12. Masahiro Furukakoi, Oludamilare Bode Adewuyi, Hidehito Matayoshi, **Abdul Motin Howlader**, and Tomonobu Senjyu, "Multi Objective Unit Commitment with Voltage Stability and PV Uncertainty," *Applied Energy*, vol. 228, pp. 618-623, October 2018.
13. Mir Sayed Shah Danish, Tomonobu Senjyu, Abdul Matin Ibrahimi, Mikaeel Ahmadi, **Abdul Motin Howlader**, "A Managed Framework for Energy-Efficient Building," *Journal of Building Engineering*, vol. 21, pp. 120-128, October 2018.
14. Mohammad Aman Yaqobi, Hidehito Matayoshi, Mir Sayed Shah Danish, Naomitsu Urasaki, **Abdul Motin Howlader**, Tomonobu Senjyu, "Control and Energy Management Strategy of Standalone DC Microgrid Cluster using PV and Battery Storage for Rural Application," *International Journal of Power and Energy Research*, vol. 2, no. 4, October 2018.
15. Masahiro Furukakoi, Oludamilare Bode Adewuyi, Mir Sayed Shah Danish, **Abdul Motin Howlader**, Tomonobu Senjyu, Toshihisa Funabashi, "Critical Boundary Index (CBI) based on active and reactive power deviations," *International Journal of Electrical Power & Energy Systems*, vol. 100, pp. 50-57, September 2018.
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17. Hidehito Matayoshi, **Abdul Motin Howlader**, Manoj Datta, and Tomonobu Senjyu, "Control Strategy of PMSG Based Wind Energy Conversion System Under Strong Wind Conditions," *Energy for Sustainable Development*, vol. 45, pp. 211-218, August 2018.
18. **Abdul Motin Howlader**, Hidehito Matayoshi, Saeed Sepasi, and Tomonobu Senjyu, "Design and Line Fault Protection Scheme of a DC Microgrid Based on Battery Energy Storage System," *Energies*, vol. 11, no. 7, pp. 1823-1844, July 2018.
19. Agada Ihuoma Nkechi, **Abdul Motin Howlader**, and Atsushi Yona, "Integration of Photovoltaic Energy to the Grid, Using the Virtual Synchronous Generator Control Technique," *Journal of Energy and Power Engineering*, vol. 12, pp. 329-339, 2018.
20. Masahiro Furukakoi, Mir Sayed Shah Danish, **Abdul Motin Howlader**, and Tomonobu Senjyu, "Voltage Stability Improvement of Transmission Systems Using a Novel Shunt Capacitor Control," *International Journal of Emerging Electric Power Systems*, vol. 9, no. 1, pp. 1-12, February 2018.
21. Ryota Kinjo, Hidehito Matayoshi, Gul Ahmad Ludin, **Abdul Motin Howlader**, Naomitsu Urasaki, Tomonobu Senjyu, "Multi-Terminal High Voltage Direct Current Transmission System with DC Resonant Semiconductor Breakers," *International Journal of Emerging Electric Power Systems*, vol. 09, no. 3, February 2018.

22. Oludamilare Bode Adewuyi, Mir Sayed Shah Danish, **Abdul Motin Howlader**, Tomonobu Senjyu, Mohammed E. Lotfy, Network Structure-Based Critical Bus Identification for Power System Considering Line Voltage Stability Margin, *Journal of Power and Energy Engineering*, vol. 6, pp. 97-111, January 2018.
23. Shota Tobaru, Hidehito Matayoshi, Foday Conteh, **Abdul Motin Howlader**, and Tomonobu Senjyu, "Optimal Operation Strategy Using Chance-Constrained Programming for Cooperative Multi-Area Small Power Systems in Remote Islands," *Journal of Renewable and Sustainable Energy*, vol. 9, no. 5, October 2017.
24. Takahiro Uehara, Dang Ngoc Son, Hidehito Matayoshi, Mohamed Lotfy, Tomonobu Senjyu, Manoj Datta, and **Abdul Motin Howlader**, "Frequency Control Method Using Automated Demand Response for Isolated Power System with Renewable Energy Sources," *International Journal of Emerging Electric Power Systems*, vol. 18, no. 5, September 2017.
25. Shota Tobaru, Ryuto Shigenobu, Foday Conteh, Naomitsu Urasaki, **Abdul Motin Howlader**, Tomonobu Senjyu, and Toshihisa Funabashi, "Optimal Operation Method Coping with Uncertainty in Multi-Area Small Power Systems," *AIMS Energy*, vol. 5, no. 4, pp. 718-734, July 2017.
26. Saeed Sepasi, Ehsan Reihani, **Abdul Motin Howlader**, Leon R. Roose and Marc Matsuura, "Very Short Term Load Forecasting of a Distribution System with High PV Penetration Renewable Energy," *Renewable Energy*, vol. 106, pp. 142-148, June 2017.
27. Yasuaki Miyazato, Shouta Tobaru, Kosuke Uchida, Cirio Celestino Muarapaz, **Abdul Motin Howlader**, and Tomonobu Senjyu, "Multi-Objective Optimization for Equipment Capacity in Off-grid Smart House," *Sustainability*, vol. 9, no. 1, pp. 117-119, January 2017.
28. Yasuaki Miyazato, Shouta Tobaru, Kosuke Uchida, Cirio Celestino Muarapaz, **Abdul Motin Howlader**, and Tomonobu Senjyu, "Multi-Objective Optimization for Smart House Applied Real Time Pricing Systems," *Sustainability*, vol. 8, no. 12, pp. 1273-1295, December 2016.
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30. **Abdul Motin Howlader**, Hidehito Matayoshi, and Tomonobu Senjyu "A Robust H_∞ Controller Based Gain-Scheduled Approach for the Power Smoothing of Wind Turbine Generator with Battery Energy Storage System," *Electric Power Components & Systems*, vol. 43, no.19, pp.2156-2167, September 2015.
31. **Abdul Motin Howlader**, Tomonobu Senjyu, and Ahmed Yousuf Saber, "An Integrated Power Smoothing Control for a Grid-Interactive PMSG-Based Wind Farm Considering Wake Effects," *IEEE System Journal*, vol. 9, no. 3, pp. 954 - 965, December 2014.
32. **Abdul Motin Howlader**, Naomitsu Urasaki, and Ahmed Yousuf Saber, "Control Strategies for Wind Farms based Smart Grid System," *IEEE Transactions on Industry Applications*, vol. 50, no. 5, pp. 3591-3601, February 2014.
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34. **Abdul Motin Howlader**, Yuya Izumi, Akie Uehara, Naomitsu Urasaki, Atsushi Yona, Tomonobu Senjyu, and Ahmed Yousuf Saber, "A Robust H_∞ Controller Based Frequency Control Approach Using the Wind-Battery Coordination Strategy in a Small Power System," *International Journal of Electrical Power and Energy Systems*, vol. 98, pp. 190-198, June 2014.
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36. **Abdul Motin Howlader**, Naomitsu Urasaki, Tomonobu Senjyu, and Ahmed Yousuf Saber, "Design and Implement a Digital H_∞ Robust Controller for a MW-class PMSG-based Grid-Interactive Wind Energy Conversion System," *Energies*, vol. 6, no. 4, pp. 2084-2109, April 2013.
37. **Abdul Motin Howlader**, Yuya Izumi, Akie Uehara, Naomitsu Urasaki, Atsushi Yona, Tomonobu Senjyu, and Ahmed Yousuf Saber, "A Minimal Order Observer Based Frequency Control Strategy for an Integrated Wind-Battery-Diesel Power System," *Energy*, vol. 46, no. 1, pp. 168-178, October 2012.
38. Alok Pratap, **Abdul Motin Howlader**, Tomonobu Senjyu, Atsushi Yona, Naomitsu Urasaki, and Toshihisa Funabashi, "Different Strategies for Controlling Output Power Smoothing of a PMSG-Based Wind Energy Conversion Systems," *International Journal of Emerging Electric Power Systems*, vol. 13, no. 4, Article 3, pp. 1-30, September 2012.
39. **Abdul Motin Howlader**, Naomitsu Urasaki, Atsushi Yona, Tomonobu Senjyu, and Ahmed Yousuf Saber, "Fuzzy Controller Based Pulse Amplitude Modulation Control for a Permanent Magnet Synchronous Motor," *International Journal of Emerging Electric Power Systems*, vol. 13, no. 1, Article 5, pp. 1-18, June 2012.
40. **Abdul Motin Howlader**, Naomitsu Urasaki, Tomonobu Senjyu, Atsushi Yona, and Ahmed Yousuf Saber, "To Reduce Power Fluctuation of a Pitch-Regulated MW-Class PMSG Based WTG System by Controlling Kinetic Energy," *Journal of International Conference on Electrical Machines and Systems*, vol. 1, no. 2, pp. 116-124, June 2012.
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42. Naomitsu Urasaki, **Abdul Motin Howlader**, Atsushi Yona, Tomonobu Senjyu, and Ahmed Yousuf Saber, " H_∞ Observer Based Sensor-less Control Strategy for Interior Permanent Magnet Synchronous Motor," *International Journal of Emerging Electric Power Systems*, vol. 12, no. 3, Article 6, pp. 1-18, June 2011.
43. **Abdul Motin Howlader**, Naomitsu Urasaki, Tomonobu Senjyu, Atsushi Yona, and Ahmed Yousuf Saber, "Optimal PAM Control for a Buck Boost DC-DC Converter with a Wide-Speed-Range of Operation for a PMSM," *Journal of Power Electronics*, vol. 10, no. 5, pp. 477-484, September 2010.
44. **Abdul Motin Howlader**, Naomitsu Urasaki, Kousuke Uchida, Atsushi Yona, Tomonobu Senjyu, Chul-Hwan Kim, and Ahmed Yousuf Saber, "Parameter Identification of Wind Turbine Generation system for Maximum Power Point Tracking Control," *Electric Power Components & Systems*, vol. 38, no. 5, pp. 603-614, March 2010.

45. **Abdul Motin Howlader**, Naomitsu Urasaki, Atsushi Yona, Tomonobu Senjyu, Chul-Hwan Kim, and Ahmed Yousuf Saber, "Output Power Leveling of Wind Generation System Using Inertia of Wind Turbine," *International Journal of Emerging Electric Power Systems*, vol. 10, no. 4, Article 5, pp. 1-13, August 2009.
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47. Tomonobu Senjyu, J. Miyagi, **Abdul Motin Howlader**, Atsushi Yona, Naomitsu Urasaki, and H. Sekine, "Bi-directional Zero-current Soft-switching Technique Applied for Bi-directional DC-DC Converter in Energy Capacitor Systems," *Electric Power Components & Systems*, vol. 36, no. 11, pp. 1183-1199, November 2008.

● Peer-reviewed International Conference Papers

1. **Abdul Motin Howlader**, Anwar Hossain, Ahmed Yousuf Saber, and Tomonobu Senjyu, "Optimal Reactive Power Flow From the Smart PV Inverters," International Conference on Science and Contemporary Technologies, BUBT, Bangladesh, August 2021 (Presented).
2. L. Liu, T. Senjyu, T. Kato, P. Mandal, A. M. Hemeida, and **Abdul M. Howlader**, "Renewable Energy Power System Frequency Control by using PID controller and Genetic Algorithm," *12th IEEE PES Asia-Pacific Power and Energy Engineering Conference (APPEEC)*, pp. 1-5, 2020.
3. K. Takahashi, H. Matayoshi, T. Senjyu, H. Takahashi, and **Abdul M. Howlader**, "Online Parameter identification of PMSG Wind turbine for Output Power control," *TENCON 2019 - 2019 IEEE Region 10 Conference (TENCON)*, pp. 604-607, 2019.
4. Y. Susowake, H. Yongyi, T. Senjyu, **Abdul M. Howlader**, and P. Mandal, "Optimum Operation Plan for Multiple Existing EV Charging Stations," *2018 IEEE PES Asia-Pacific Power and Energy Engineering Conference (APPEEC)*, pp. 611-615, 2018.
5. R. Ota, R. Kinjo, H. Matayoshi, T. Senjyu, and **Abdul M. Howlader**, "DC fault detection method using current differential deviation in MTDC grid," *2018 IEEE PES Asia-Pacific Power and Energy Engineering Conference (APPEEC)*, pp. 139-142, 2018.
6. Y. Susowake, A. M. Ibrahim, M. S. S. Danish, T. Senjyu, **Abdul M. Howlader**, and P. Mandal, "Multi-Objective Design of Power System Introducing Seawater Electrolysis Plant for Remote Island," *2018 IEEE Innovative Smart Grid Technologies - Asia (ISGT Asia)*, pp. 909-911, 2018.
7. **Abdul Motin Howlader**, Staci Sadoyama, Leon R. Roose, and Saeed Sepasi, "Experimental Analysis of Active Power Control of the PV System Using Smart PV Inverter for the Smart Grid System," *12th IEEE International Conference on Power Electronics and Drive Systems (IEEE PEDS 2017)*, pp. 497-501, Honolulu, USA, December 2017.
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10. Shota Tobaru, Foday Conteh, **Abdul Motin Howlader**, Tomonobu Senjyu, and Toshihisa Funabashi, "Optimal Sizing of PV-Wind-Battery Power System Considering Demand Response Programs," 12th IEEE International Conference on Power Electronics and Drive Systems (IEEE PEDS 2017), pp. 162-165, Honolulu, USA, December 2017.
11. Ryoya Ohta, Hidehito Matayoshi, **Abdul Motin Howlader**, Tomonobu Senjyu, "LLC Resonant Type Boost Converter for HVDC Interconnection of PV Generation Facility," 12th IEEE International Conference on Power Electronics and Drive Systems (IEEE PEDS 2017), pp. 156-161, Honolulu, USA, December 2017.
12. Hidehito Matayoshi, Koji Hata, Son Dang, Tomonobu Senjyu, Toshihisa Funabashi, **Abdul Motin Howlader**, and Nobuaki Hiranaka, "Development of Wind Turbine Controller for Low Wind Speeds," 2017 IEEE Region 10 Conference TENCON 2017, pp. 1733-1736, Penang, Malaysia, November 2017.
13. Yasuaki Miyazato, Shota Tobaru, Tomonobu Senjyu, **Abdul Motin Howlader**, and Toshihisa Funabashi, "Multi-Objective Optimization for Operation and Equipment Capacity of Off-Grid Smart House," 3rd IEEE International Future Energy Electronics Conference and ECCE Asia (IFEEEC 2017–ECCE Asia), pp. 1137-1142, Kaohsiung, Taiwan.
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15. Saeed Sepasi, **Abdul Motin Howlader**, Ehsan Reihani and Leon R. Roose, "A Coordinated Approach for Frequency Control of Zero Emission Based Smart PV-Wind-Battery Power System," 2016 International Conference on Electrical and Computer Engineering (ICECE), pp. 166-169, Dhaka, Bangladesh.
16. Shota Tobaru, Cirio Celestino Muarapaz, Foday Conteh, Tomonobu Senjyu, **Abdul Motin Howlader**, and Mir Sayed Shah Danish, "Design of hybrid renewable energy systems considering optimal real-time pricing," in Proc. 2016 IEEE Region 10 Conference (TENCON), pp. 3206-3209, Marina Bay Sands, Singapore.
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21. **Abdul Motin Howlader**, Hiroki Ikema, and Tomonobu Senjyu, "A Fuzzy Adaptive DC-link Voltage Controller Based Power Smoothing Approach for MW-Class Wind Energy Conversion System," in Proc. 2015 International Conference on Future Environment and Energy-ICFEE, Taipei, Taiwan.
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23. Shota Higa, **Abdul Motin Howlader**, Yuhei Shiroma, Atsushi Yona, Tomonobu Senjyu, Toshihisa Funabashi, "Optimal Operation Method considering Replanning and Uncertainty in Power Systems," in Proc. 20th International Conference on Electrical Engineering, pp. 252-257, Jeju, Korea, June 2014.
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36. Tomonobu Senjyu, Yohei Noguchi, Naomitsu Urasaki, **Abdul Motin Howlader**, Atsushi Yona, and Hideomi Sekine, "Position sensorless control for interior permanent magnet synchronous motors using H_∞ flux observer," in Proc. IEEE ICEMS, Wuhan, China, pp. 984-989, October 17-20, 2008.
37. Suman Ahmmed, Zakaria Al Mahmud, **Abdul Motin Howlader**, Md. Mostafa Belal, Chowdhury Mofizur Rahman, "Exploiting Entropy based Feature Selection, Naive Bayesian Classifier and Association Mining in Automated Text Classification system," in Proc. of 8th International Conference on Computer and Information Technology, Gazipur, Bangladesh, pp. 1041-1045, Dec. 2005.

• Non-reviewed National Conference and workshop Papers

1. **Abdul Motin Howlader**, "Predicting Heavy-Duty Vehicle Emissions Using Advanced Machine Learning Algorithms," 33rd CRC Workshop, Long Beach, CA, April 2023.
2. **Abdul Motin Howlader**, "Predicting Light-Duty Vehicle Emissions Using Deep Learning Algorithms," 32nd CRC Workshop, San Diego, CA, April 2022.
3. **Abdul Motin Howlader**, Hiroki Ikema, Naomitsu Urasaki, and Tomonobu Senjyu, "Reliability Investigations Under the Line Fault Condition for Distributed Renewables and Smart Houses Based Smart Grid System," in Proc. IEEJ-IEICE Joint Conference, Okinawa, Japan, CDROM, 6 pages, December 2014.

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5. **Abdul Motin Howlader**, Naomitsu Urasaki, Atsushi Yona, and Tomonobu Senjyu, "Robust H_{∞} controller for a Permanent Magnet Synchronous Generator Based Wind Energy Conversion System," in Proc. IEEJ-IEICE Joint Conference, Okinawa, Japan, CDROM, 5 pages, December 2011.
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