## Toshiji Kato

## List of Publications by Year in descending order

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11 Optimal torque and rotating speed trajectories minimizing energy loss of induction motor under
both torque and speed limits. , 2013, ,.
An oscillation suppression method of a DC power supply system with a constant power load and a LC
filter. , 2012, ,.

General-Purpose Computation Method of a Power Converter for Frequency Characteristics:
14 Application to Stability Analysis of a Grid Inverter. IEEE Journal of Emerging and Selected Topics in
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Power Electronics, 2017, 5, 1466-1473.
Sinusoidal Waveform Following Method for Digital Control of PWM inverter. IEEJ Transactions on Industry Applications, 2006, 126, 218-224.

21 Robust MIMO Controller Design for VSC-Based Microgrids: Sequential Loop Closing Concept an
Quantitative Feedback Theory. IEEE Transactions on Smart Grid, 2022, 13, 129-138.
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22 Optimal energy saving trajectories of induction motor with suppression of sudden acceleration and

A simple and effective time delay compensation method for grid-connected inverter with an LCL filter:
Application to active damping method. , 2017, , .

25 Stability Analysis Methods of a Grid-Connected Inverter in Time and Frequency Domains. , 2018, , .Computation system for optimum pulse-patterns in the VV sinusoidal PWM inverter under filtering
effects.. IEEJ Transactions on Power and Energy, 1985, 105, 653-660.effects.. IEEJ Transactions on Power and Energy, 1985, 105, 653-660.

32 Optimal motion trajectories minimizing loss of induction motor under amplitude limits. , 2012, , .
Efficient steady-state simulation of a power electronic circuit by parallel processing. Power
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38 Lumped equivalent circuit model synthesis for a passive element with frequency-dependent and/or temperature-dependent characteristics for EMC simulation. , 2009, , .

39 Efficient steady-state computation of a power electronic converter system by the envelope following method., 2010, , .

Simple and Effective Time Delay Compensation Method for Active Damping Control of Grid-Connected Inverter with an LCL Filter. IEEJ Journal of Industry Applications, 2018, 7, 454-461.
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GA Based Optimized Trajectories of Rotating Speed and d-q Axis Currents for an IPMSM. , 2018, , .

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Multirate Analysis Method of a Power Electronic Converter by Circuit Partitioning. , 0, , .
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44 Optimum reduction of switching losses based on the two-phase PWM modulation method. , 2012, , .

The power performance and fuel economy estimation for vehicle concept planning and design using
VHDL-AMS HV full vehicle simulation. , 2012, , .

Sinusoidal compensator with active damping effects in grid-connected inverter with an LCL filter. , 2013, , .

Lyapunov-based digital control of grid-connected inverter with an LCL filter. , 2013, , .

48 Common-mode voltage reduction with two-phase modulation in three-level PWM inverter. , 2013, , .

Numerical design methodology of optimal trajectories for efficient induction motor drive based on a loss map., 2013, , .

An energy saving drive method of an induction motor with the suppression of sudden acceleration and deceleration. , 2014, , .

Optimum and adjustable damping control of grid-connected inverter with an LCL filter., 2015, , .

On-line switching loss reduction scheme by general space vector PWM for multilevel NPC inverter., 2017, , .

Optimal Digital Controller Design for Passive Stabilization of a Grid-Connected Three-Phase Inverter with LCL filter. , 2019, , .

> Application of the stabilized inverse-convolution method of frequency domain for the error correction of the impulse potential divider.. IEEJ Transactions on Power and Energy, 1985, 105, 195-202.
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Stability Analysis for Grid-Connected LCL-Type Inverter with Digital Control. IEEJ Transactions on Industry Applications, 2016, 136, 615-621.

57 General-Purpose Computation of Frequency Characteristics of Power Conversion System for Stability Analysis by the Impedance Method. IEEJ Transactions on Industry Applications, 2020, 140, 685-693.
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Energy-based digital control of a ripple correction circuit of an unity-power-factor AC/DC converter. , 2010, , .
61 Diagnosis of multi-turn faults of induction motor by direct detection of asymmetry admittance component. , 2013, , .

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62 \text { On-line reduction of switching losses and common-mode voltages of multi-level PWM inverter by a }
$$new space vector modulation. , 2015, , .

Computation of Frequency Characteristics of Grid Inverters by General Small-Signal Analysis Method. , 2019, , .

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Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2021, 214, e23361.

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& 69 \text { Efficient computation of frequency characteristics of a power conversion system by periodic } \\
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79 Worst-Case Tolerance Analysis for a Power Electronic System by a Modified Relay-Search Genetic Algorithm. IEEJ Transactions on Industry Applications, 2008, 128, 117-124.

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Transactions on Industry Applications, 2011, 131, 110-117.

81 | Diagnosis of Stator-Winding-Turn Faults of Induction Motor by Direct Detection of |
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| Negative-Sequence Currents. IEEJ Transactions on Industry Applications, 2011, 131, 1346-1353. |

$82 \quad$| Load-side Sensor-less Speed Regulation of a Two-Inertia System with an Eccentricity. IEEJ Transactions |
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83 Generalized Parallel Processing of Circuit Simulation for a Power Electric System by Circuit Partitioning. IEEJ Transactions on Industry Applications, 2014, 134, 1-9.
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85 Double-Mapping-Based SVM Method for Balancing DC-Link Input Voltages of a Five-Level Inverter. IEEJ Transactions on Electronics, Information and Systems, 2018, 138, 1319-1326.
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2021, 141, 1129-1137.
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