Meiyi LI

Email: limeiyi@sjtu.edu.cn | Personal Webpage: meiyilipower.github.io

EDUCATION

Shanghai Jiao Tong University (SJTU)

Shanghai, China

•M.Sc. in Electrical Engineering

|GPA: 3.56/4.0

- Sep. 2017-Present
- Received waiver for the National Postgraduate Entrance Examination to enter SJTU (Rank 10/170)
- •National Scholarship for Outstanding Academic Achievements (Highest scholarship, Top 1%, Ranking 1st among female students)
- oThesis: "Stability Analysis and Optimal Control of Virtual Synchronous Generator Controlled Inverter-Interfaced Distributed Generators"
- •B.Sc. in Electrical Engineering and Automation | GPA: **4.01**/4.3

Sep. 2013-Jun. 2017

- Outstanding Engineers Honor Class (30 students selected from 160 candidates in the school)
- Merit student of SJTU (Top 3%)
- Outstanding Graduates of Shanghai (Top 5%)
- o Thesis: "Transient Stability and Optimization Control of Microgrid"

PUBLICATIONS

- [1] M Li, W Huang, N Tai. A Dual-Adaptivity Inertia Control Strategy for Virtual Synchronous Generator. *IEEE Transactions on Power Systems*, 2019. Published.
- [2] M Li, W Huang, N Tai. Transient Behavior Analysis of VSG-IIDG During Disturbances Considering the Current Limit Unit. 2019 IEEE Power and Energy Society General Meeting, 2019. Prize Conference Paper (4/900), the only Chinese student who won the prize in the past several years.
- [3] M Li, W Huang, N Tai. Stability Analysis of VSG Under Grid Voltage Drop and Current Saturation. *IEEE Transactions on Power Systems*. Under Review.
- [4] M Li, W Huang, N Tai. Stability Analysis of the VSG-IIDG in the Microgrid: A Review. Applied Energy. Under Review.
- [5] **M Li**, W Huang, N Tai. Lyapunov-Based Large Signal Stability Assessment for VSG Controlled Inverter-Interfaced Distributed Generators. *Energies*, 2018. Published.
- [6] **M Li**, W Huang, N Tai. Control Strategy for Inverter Interfaced Distributed Generator based on Virtual Synchronous Generator using Adaptive Inertia under Frequency Disturbances. *Power System Technology*, 2019. (Chinese EI Journal). Accepted.
- [7] **M Li**, W Huang, N Tai. Surge Current Calculation and Limit Strategy of the IIDG during Loop Closing Operation in Distribution Networks. 2019 IEEE Sustainable Power & Energy Conference, 2019. Accepted.
- [8] M Li, W Huang, N Tai. Analysis and Limit Strategy of the Surge Current Caused by Closing-Loop Operation in the DG dominated Distribution Network. 2019 China Electrotechnical Society Academic Annual Conference, 2019. Accepted.
- [9] Y Chen, Z Liu, **M Li**. Evaluation Index and Method of Active Distribution Network Based on Multi-source Data. Electrical Automation, 2019. (Chinese Core Journal). Accepted.
- [10] **M Li**, W Huang, N Tai. Large Signal Stability of Autonomous Operation of A VSG-IIDG: Modeling and Analysis (Working paper).

RESEARCH EXPERIENCE

Research Assistant (RA), Key Laboratory of Control of Power Transmission and Conversion, Shanghai

Advisor: Prof. Dongliang Duan (Associate Professor, Department of Electrical & Computer Engineering, University of Wyoming)

• Project I: Adaptive Control of the Inverter-interfaced Distributed Generator (IIDG) ([1])

Oct. 2018-Jun. 2019

oProposed a dual-adaptivity inertia control strategy for the IIDG based on the virtual synchronous generator to 1) offer responsive and stable frequency support and 2) achieve the balance between power regulation and frequency regulation

according to different operating conditions.

- ODerived transfer functions of the IIDG power and angular frequency.
- Analyzed the response characteristics (overshoot and resettling time) of the IIDG output power and frequency.
- oProposed an assessment method considering the cumulative effect of the output deviation and its duration to 1) cope with the tradeoff between speed and tracking accuracy and 2) universally reflect the dynamic performance of power and frequency.

RA, Research Center for Big Data and Artificial Intelligence Engineering and Technologies, Shanghai

Advisor: Prof. Robert (Caiming) Qiu (Professor, Department of Electrical Engineering, SJTU; IEEE Fellow)

• Project I: Virtual Power Angle Stability of the IIDG ([3])

Jun. 2019-Present

- oAnalyzed the power-angle relationship of the virtual synchronous generator considering the voltage regulation and line resistance to illustrate when the Q-V controller might have an enhanced or deteriorative effect on stability of the IIDG system.
- oEstablished the small-signal model of the controller using the grid voltage drop as an input to analyze dynamic characteristics of IIDG's output power and frequency when the system recovers from the disturbance.
- •Revealed possible instabilities of the IIDG that were not reported previously by discussing two situations considering current saturation: non-instant saturation and instant saturation.

RA, Department of Electrical Engineering, SJTU

• Project I: Lyapunov-based Stability Analysis of the Virtual Synchronous Generator ([5])

Apr. 2018-Jun. 2018

- ODerived the Lyapunov energy function based on Popov's theory to determine the stability domain of the IIDG system.
- OAnalyzed the effects of control parameters on the large-signal stability of the IIDG system.
- Project II: Stability Mechanism of the IIDG ([2], [4], [6], [10])

Sep. 2017-Present

- oCalculated the operation area of the IIDG controller according to 1) phase and gain margin, 2) system capacity, 3) standards in accordance with power quality, and 4) characteristic roots.
- oAnalyzed typical instabilities and their mechanisms of the IIDG considering the current limit unit to enhance the stability of the IIDG system.
- Project III: Surge Current of the IIDG during Closing-Loop Operation ([7], [8])

Sep. 2018-Sep. 2019

- oPresented an algorism for calculating the surge current of voltage source inverters and current source inverters.
- Proposed a control scheme to limit the surge current of the IIDG during closing-loop operation in the distributed network.

INDUSTRIAL COLLABORATIVE PROJECTS

Key Technologies Study on Control and Protection of Multi-microgrid

Dec. 2017-Dec. 2018

Electric Power Research Institute of Guangxi Province

- oEstablished a simulation platform of the microgrid in Guangxi No.1 middle school, including three photovoltaic plants, a wind generator, three storage batteries, a diesel generator, and their controllers, et al.
- oAnalyzed the amplitude-frequency and phase-frequency characteristics of controllers and phase-locked loops based on impedance-based stability theory.
- oDesigned and implemented an automated software tool to determine the stability of the microgrid based on MATLAB.

WORK EXPERIENCE

Intern Electrical Engineer, State Grid Corporation of China, Shanghai, China ([9])

Sep. 2018-Nov. 2018

- oLed a team of 3 students and established the simulation platform of the grid-connected photovoltaic power system of the Songjiang District of Shanghai.
- Calculated and analyzed the overvoltage and high impact current with the increase of penetration of photovoltaic power.

TECHNICAL SKILLS

Programming: MATLAB, Simulink, Power Systems Computer Aided Design/Electro-Magnetic Transient in DC System (PSCAD/EMTDC), Real Time Digital Simulator (RTDS), Python, C/C++

Standardized tests: GRE:327 (V158-Q169-A3.5), TOFEL:106 (R30-L28-S25-W23)



RECORDS FOR UNDERGRADUATE

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E1901	Programming Science and Technology	1	2	B+	EV017	Water Resource and Water	2	2	A-
	Innovation (Part 1)		2	B+	MA043	Environment Protection	2		
EN025	University English I	1	3	В		Mathematical Analysis II	2	6	A
IN901	Information Literacy and	1	2	A		Probability and Statistics	2	3	A
ΜΔ077	Practice Linear Algebra	1	3		MU903	World Ethnic Music Appreciation	2	2	A
	Discrete Mathematics		2	A	PE002	Physical Education II	2	1	A-
	Mathematical Analysis I	1		Λ+	PH001	Physics I	2	4	Λ+
PE001			6	Λ	PH028	Physics Lab. I	2	1	Λ-
	Cultivation of Ethics and		3	Λ	TH009	Circumstance and Policy	2	1	A-
111000	Fundamentals of Law		3	A	TH010	Military Training	2	3	P
TH004	Military Theory	1	1	A	TH021	Modern Chinese History	2	2	A-
TH009	Circumstance and Policy	1	1	A-	XP000	General Education Practice	2	2	P
CS048	C++ Programming	2	3	B+					
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CODE	COURSES	SEMESTER	CREDIT	GRADECODE			GEN GEOGRAP		
	Innovation and	SEWESTER	2	A-	B1903	COURSES Experimental Exploration	SEMESTER 2	CREDIT 2	GRADECODE
	Entrepreneurship			1	51705	to Life Science	-	2	A+
EI203	Fundamental Circuit Theory	1	4	B+	CH927	Introduction to	2	3	Α
EI204	Basic Circuit Lab.	1	2	A	EE206	Modern Chinese Poetry Cognitive Practice	2		
EI205	Digital Electronics		3	B-		ARM Embedded Systems	2	-	A-
	Technology			D-	LILZOI	and its Experiments		5	A-
	University English III	1	3	B+	EI200	Electromagnetic Field	2	2	B+
MA097	Mathematical Methods in	1	3	A-	E1207	Analog Electronic	2	3	B+
MF068	Physics Modern Technology of		The same of		E1210	Technology			
Looo	Electric Automobile		1	A-	EI210	Signals and Systems	2	3	A
PE003	Physical Education III	1	1	A+	EI227	Science and Technology Innovation (Part 2A)	2	2	A
PH002	Physics II	1	4	Λ	EN026	University English II	2	3	A-
PH029	Physics Lab. II	1	1	Λ-	ES003	Electronics Lab.	2	3	A
PU933	Political Man	1	2	Λ-	ME037	Basics of Machine	2	2	
SO923	News Media and Society	1	2	A		Manufacturing			Λ-
TH007	Basic Theory of Marxism	1	3	A-		Physical Education IV	2	1	A-
TH009	Circumstance and Policy		1	A	TH009	Circumstance and Policy	2	T	A+
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	COURSES Basic Management	SEMESTER 1		GRADECODE B+	CODE		SEMESTER 2	CREDIT 2	
AM001	Basic Management Fundamentals of Electrical	SEMESTER 1	CREDIT	GRADECODE B+	CODE EC016	5-2016 COURSES		2	Λ-
AM001 EE301	Basic Management Fundamentals of Electrical Engineering I	SEMESTER	CREDIT 2 4	GRADECODE B+ A	CODE EC016 EE302	5-2016 COURSES Engineering Economics(F) Fundamentals of Electrical Engineering II	2 2	2 2	
AM001 EE301	Basic Management Fundamentals of Electrical Engineering I Fundamentals of Power	SEMESTER I I	CREDIT 2	GRADECODE B+	CODE EC016 EE302 EE308	5-2016 COURSES Engineering Economics(F) Fundamentals of Electrical Engineering II Relay Protection of Power	2	2	Λ-
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AM001 EE301 EE303 EE311	Basic Management Fundamentals of Electrical Engineering I Fundamentals of Power Electronics Technology	SEMESTER 1 1 1	CREDIT 2 4	GRADECODE B+ A A A+	CAR: 201 CODE EC016 EE302 EF308 EE315	5-2016 COURSES Engineering Economics(F) Fundamentals of Electrical Engineering II Relay Protection of Power System Electrical Power System Automation	2 2 2 2	2 2	A- B+
EE301 EE303 EE311 EE314	Basic Management Fundamentals of Electrical Engineering I Fundamentals of Power Electronics Technology Database Electrical Machinery Theory	SEMESTER	2 4 3 2 4	GRADECODE B+ A	CAR: 201 CODE EC016 EE302 EE308 EE315 EE318	5-2016 COURSES Engineering Economics(F) Fundamentals of Electrical Engineering II Relay Protection of Power System Electrical Power System Automation Motor Control Technology	2 2 2	2 2 3	A- B+ A
EE301 EE303 EE311 EE314	Basic Management Fundamentals of Electrical Engineering I Fundamentals of Power Electronics Technology Database Electrical Machinery Theory Digital Signal Processing	SEMESTER	2 4 3 2	GRADECODE B+ A A A+	CAR: 201 CODE EC016 EE302 EE308 EE315 EE318 EE319	5-2016 COURSES Engineering Economics(F) Fundamentals of Electrical Engineering II Relay Protection of Power System Electrical Power System Automation Motor Control Technology Electrical and Electronic	2 2 2 2	2 2 3 3	A- B+ A
EE301 EE301 EE303 EE311 EE314 EE317	Basic Management Fundamentals of Electrical Engineering I Fundamentals of Power Electronics Technology Database Electrical Machinery Theory	SEMESTER	2 4 3 2 4	GRADECODE B+ A A A+ A A	CAR: 201 CODE EC016 EE302 EE308 EE315 EE318 EE319	5-2016 COURSES Engineering Economics(F) Fundamentals of Electrical Engineering II Relay Protection of Power System Electrical Power System Automation Motor Control Technology Electrical and Electronic Measurement Technology	2 2 2 2 2 2 2	2 2 3 3 3 2	A- B+ A A- A- A
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AM001 EE301 EE303 EE311 EE314 EE317 E1205 E1303 E1310 PE901 AU321 CODE EE404 EE411 EE412	Basic Management Fundamentals of Electrical Engineering I Fundamentals of Power Electronics Technology Database Electrical Machinery Theory Digital Signal Processing (B) Digital Electronics Technology Automatic Control Theory B Science and Technology Innovation (Part 3-A) Sport Culture Motion Control System Integrated Test COURSES Digital Power Systems Protection and its Application Course Design in Power		CREDIT 2 4 3 2 4 2 3 3 2 1 2 CREDIT 2	GRADECODE B+ A A A A+ A A+ A A- A+ B+ CADEMIC YE GRADECODE A	AR: 201 CODE EC016 EE302 EF308 EE315 EE318 EE319 EE329 EE332 EE413 EI317 T030PRP2 8075 AR: 201 CODE EE422 EE431 EI302	5-2016 COURSES Engineering Economics(F) Fundamentals of Electrical Engineering II Relay Protection of Power System Electrical Power System Automation Motor Control Technology Electrical and Electronic Measurement Technology Electrical Professional Practice Course Design in Power Electronic Transient Analysis of Power System Science and Technology Innovation (Part 4-B) PRP(T030PRP28075) 6-2017 COURSES Numerical Computation of Electro-Magnetic Field Electrical System Lab. Communication Fundamentals (B) Undergraduate Project	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 3 3 3 2 2 2 2 2 2 2 2 2 2	A-B+ A A-A A A A A A A A A A A A A A A A A
AM001 EE301 EE303 EE311 EE314 EE317 E1205 E1303 E1310 PE901 AU321 CODE EE404 EE411 EE412	Basic Management Fundamentals of Electrical Engineering I Fundamentals of Power Electronics Technology Database Electrical Machinery Theory Digital Signal Processing (B) Digital Electronics Technology Automatic Control Theory B Science and Technology Innovation (Part 3-A) Sport Culture Motion Control System Integrated Test COURSES Digital Power Systems Protection and its Application Course Design in Power System Protection Electrical Power System Optimization and Marketing		CREDIT 2 4 3 3 2 4 2 3 3 3 2 1 2 CREDIT 2 2 2 2	GRADECODE B+ A A A A+ A A+ A A- A+ B+ CADEMIC YE GRADECODE A A-	AR: 201 CODE EC016 EE302 EF308 EE315 EE318 EE319 EE329 EE332 EE413 EI317 T030PRP2 8075 AR: 201 CODE EE422 EE431 EI302	5-2016 COURSES Engineering Economics(F) Fundamentals of Electrical Engineering II Relay Protection of Power System Electrical Power System Automation Motor Control Technology Electrical and Electronic Measurement Technology Electrical Professional Practice Course Design in Power Electronic Transient Analysis of Power System Science and Technology Innovation (Part 4-B) PRP(T030PRP28075) 6-2017 COURSES Numerical Computation of Electro-Magnetic Field Electrical System Lab. Communication Fundamentals (B)	2 2 2 2 2 2 2 2 2 2 2 2 3 5 5 5 5 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	2 2 3 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	B+ A A A- A A A A A A A A A A A A A A A A
AM001 EE301 EE303 EE311 EE314 EE314 EE317 E1205 E1303 E1310 PE901 AU321	Basic Management Fundamentals of Electrical Engineering I Fundamentals of Power Electronics Technology Database Electrical Machinery Theory Digital Signal Processing (B) Digital Electronics Technology Automatic Control Theory B Science and Technology Innovation (Part 3-A) Sport Culture Motion Control System Integrated Test COURSES Digital Power Systems Protection and its Application Course Design in Power System Protection Electrical Power System Optimization and		CREDIT 2 4 3 2 4 2 3 3 2 1 2 CREDIT 2	GRADECODE B+ A A A A+ A A+ A A- A+ B+ CADEMIC YE GRADECODE A A-	AR: 201 CODE EC016 EE302 EF308 EE315 EE318 EE319 EE329 EE332 EE413 EI317 T030PRP2 8075 AR: 201 CODE EE422 EE431 EI302	5-2016 COURSES Engineering Economics(F) Fundamentals of Electrical Engineering II Relay Protection of Power System Electrical Power System Automation Motor Control Technology Electrical and Electronic Measurement Technology Electrical Professional Practice Course Design in Power Electronic Transient Analysis of Power System Science and Technology Innovation (Part 4-B) PRP(T030PRP28075) 6-2017 COURSES Numerical Computation of Electro-Magnetic Field Electrical System Lab. Communication Fundamentals (B) Undergraduate Project	2 2 2 2 2 2 2 2 2 2 2 2 3 5 5 5 5 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	2 2 3 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	A-B+ A A-A-A A A A A A A A A A A A A A A A

06 网址(Web): http://jwc.sjtu.edu.cn

NOTEL-MARK"A "Means the Course Failed NOTE2-The sheet should be stamped to be official 生成绩证明
Remistrar's Office.ShangHai Jiao Tong University http://jwc.sjtu.edu.cn 2019-10-17



TRANSCRIPT FOR GRADUATE STUDENT

Date Issued:25-OCT-2019

Name: Li Meiyi Nationality:China

Gender:Female Date of Birth:22-JUL-1994 Study Program: Professional Master Enrollment Date:SEP-2017

Student ID: 117031910072

Supervisor: Tai Nengling

School: School of Electronic Information & Electrical Engineering

Major: Electrical Engineering

COURSE TITLE	CREDIT	GRADE	SEMESTER
Academic Speech and Seminar	2	Α	2018 Fall
☆ English for Academic Purposes	2	Α-	2018 Spring
Power System Security Analysis	2	Α	2018 Spring
Reliability of Power Systems	2	A+	2018 Spring
☆ Introduction to Computer Relaying Protection	2	Α	2018 Spring
Distribution automation system	2	Α	2018 Spring
Advanced Optimization of Power System Operation	2	В	2017 Fall
Theory and Application of Optimization in Modern Power System Operation	2	B-	2017 Fall
Relaying Protection for Extra-high Voltage Transmission Line	2	В	2017 Fall
Fundamentals and Theory for Optimization Methods	3	В-	2017 Fall
Dialectic of nature	1	Α	2017 Fall
The Theory and Practice of Socialism in China	2	B+	2017 Fall
☆ Modern Control Theory	3	Α-	2017 Fall
☆ Project Management	1	Α-	2017 Fall

Total Credits	Credits for GPA	Cumulative GPA	Degree-Specific Requirements Semester	Grade
28	19	3.56/4.0	research assistant 2019 Spri	Р
Degree Conferre			Conferred Date	
Thesis Title			上业	

^{*} Courses marked with \Leftrightarrow are used for calculating GPA.

^{***} Explanatory legend is printed on the back page.



Dean:

lang Shengrong



^{**} The transcript should be stamped to be official.