Approved by the Regents
May 16, 2019

PROMOTION RECOMMENDATION
The University of Michigan-Dearborn
College of Engineering and Computer Science

Wencong Su, assistant professor of electrical and computer engineering, Department of Electrical and Computer Engineering, College of Engineering and Computer Science, is recommended for promotion to associate professor of electrical and computer engineering, with tenure, College of Engineering and Computer Science.

Academic Degrees:

Ph.D.	2013	Electrical Engineering, North Carolina State University, Raleigh, NC
M.S.	2009	Electrical Engineering, Virginia Tech, Blacksburg, VA
B.S.	2001	Electrical Engineering with Distinction, Clarkson University, Potsdam, NY

Professional Record:

2013 – present	Assistant Professor, Department of Electrical and Computer Engineering, University of Michigan-Dearborn, Dearborn, Michigan
2018 – present	Adjunct Professor, College of Electrical Engineering and Automation, Fuzhou University, Fuzhou, China

Summary of Evaluation:
Teaching: Professor Su is rated as excellent in teaching. In regular classroom instruction, he excels in both graduate and under graduate classes. His average student assessment over all courses taught is 4.77 out of 5.0 possible. He has taught ECE 4431, ECE 542, ECE 541, and ECE 530. He also teaches 600 level doctoral courses, which are more seminar oriented. He has taught ECE 616 and ECE 646 and developed ECE 616, Advanced Topics in Power Systems, which covers advanced topics of power system planning, operation, and control. This is an important doctoral level course and one of our first 600 level courses taught. Professor Su also supervises seven Ph.D. students and 10 Master's thesis students, guiding them to completion in their Ph.D.s and Master's Theses. One of his Ph.D. students is near completion of his dissertation defense. Professor Su is an energetic teaching figure who excels at motivating students and colleagues with his enthusiasm for teaching, curriculum development, and design innovation.

Research: Professor Su is rated as excellent in research. His work can be broadly categorized into the areas of *Resilient Operation of Networked Microgrids*, *Advanced Machine Learning Algorithms for Retail Electricity Market Design*, *Optimal Power and Energy Management of Electrified Vehicles, and Distributed Control for Power Systems*. Professor Su is an outstanding researcher by all measures. He has 27 journal papers while at UMD, averaging over five publications a year. He has also published 27 conference papers, one book, and four book chapters. He is widely recognized in his field and has been invited to speak at many conferences and seminars. His five most recent publications were written with his Ph.D. students. Professors

Su's external funding is over $1.6M, with four active research projects where the candidate's share is over $660K.

Recent and Signification Publications:

Liang, Z. and Su, W, "Game Theory Based Bidding Strategy for Prosumers in the Distribution System with a Retail Electricity Market," *IET Smart Grid*, 2018. Accepted.

Chen, T. and Su, W, "Indirect Customer-to-Customer Energy Trading with Reinforcement Learning," *IEEE Trans. on Smart Grid*, 2018. Impact Factor: 7.364. Accepted.

Lim, H. and Su, W., "Hierarchical Energy Management for Power-Split Plug-In HEVs using Distance-based Optimized Speed and SOC Profiles," *IEEE Trans. on Vehicular Technology*, 2018. Impact Factor: 4.432. Accepted.

Pourbabak, H., Luo, J., Chen, T., and Su, W., "A Novel Consensus-based Distributed Algorithm for Economic Dispatch Based on Local Estimation of Power Mismatch," *IEEE Trans. on Smart Grid*, 2017. Impact Factor: 7.364. Accepted.

Liang, Z., Alsafasfeh, Q., Jin, T., Pourbabak, H., and Su, W., "Risk-Constrained Optimal Energy Management for Virtual Power Plants Considering Correlated Demand Response," *IEEE Trans. on Smart Grid*, 2017. Impact Factor: 7.364. Accepted.

Service: Professor Su is rated as excellent in service. He has served on several committees within the college, including the ECE Department Chair Faculty Search Committee (2017-2018), the ECE New Faculty Search Committee (2015-2016), and the ECE Laboratory Advising Committee (2013). He also served on the college's Experiential Learning Committee (2015-2015) and the Student Collaboration Resource Committee (2016-2018). Professor Su has also served in a number of roles in professional societies, including editor for several journals, conference organizing committees, technical committees, conference chair, *IEEE Transactions on Smart Grid* editor, proposal reviewer for several projects, reviewer for over 40 international journals, and over 10 international conferences.

External Reviewers:

Reviewer A: "As compared to the junior faculty in my institution, he would be ranked within top 15%. His achievements are impressive for an assistant professor."

Reviewer B: "He shows excellent promise in building and sustaining a research program and in establishing himself as a leader in his field."

Reviewer C: "Over all, Dr. Su has an impressive large number of high quality technical papers published in both transactions and conferences, and books/chapters since he joined UM Dearborn."

Reviewer D: "His research performance is a high flyer to pass tenure in my current [institution]."

Reviewer E: "Based on my estimation, he has met the expectations of a tenure candidate at [my institution]."

Summary of Recommendation:
Professor Su is an outstanding teacher and exceptional researcher who is well deserving of promotion to associate professor with tenure. We are very pleased to recommend, with strong support of the College of Engineering and Computer Science Executive Committee, Wencong Su for promotion to associate professor of electrical and computer engineering, with tenure, College of Engineering and Computer Science.

Anthony W. England, Dean
College of Engineering and Computer Science

Domenico Grasso, Chancellor
University of Michigan-Dearborn

May 2019