

## **Dragan Maksimovic**

Professor

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**Dragan Maksimovic** received his Ph.D. degree from California Institute of Technology, Pasadena, in 1989. In 1992, he joined the Department of Electrical and Computer Engineering at the University of Colorado, Boulder where he is currently a Professor of Electrical Engineering. In 1998, he co-founded the Colorado Power Electronics Center (CoPEC), and has since served as the CoPEC Director. Under his direction, CoPEC pioneering research program in digital control techniques for high-frequency switched-mode power converters and power management applications has attracted significant support from numerous industrial sponsors and from agencies such as NSF, DARPA, ONR and DOEd. He has published over 170 peer-reviewed papers in journals and at professional conferences. He received NSF CAREER Award in 1997, Power Electronics Society Transactions Prize Paper Awards in 1997 and 2008, Bruce Holland Excellence in Teaching Award in 2004, and CU Boulder Inventor of the Year Award in 2006. He is the co-author of the textbook *Fundamentals of Power Electronics*, 2<sup>nd</sup> edition, Springer 2000. He currently serves as the Chair of the IEEE PELS Technical Committee on DC Power Systems, and as an Associate Editor for the IEEE Transactions on Power Electronics.

### **Education**

- B.S.E.E. University of Belgrade, Yugoslavia, 1984
- M.S.E.E. University of Belgrade, Yugoslavia, 1986
- Ph.D. California Institute of Technology, Pasadena, 1989

### **Professional experience**

- Co-Director, Colorado Power Electronics Center, 1998-present
- Professor, ECE Department, University of Colorado, Boulder, 2006-present
- Associate Professor, ECE Department, University of Colorado, Boulder, 1999-2006
- Assistant Professor, ECE Department, University of Colorado, Boulder, 1992-1999
- Assistant Professor, University of Belgrade, 1989-1992
- Research Fellow, California Institute of Technology, 1989
- Graduate Research Assistant, California Institute of Technology, 1986-1989
- Graduate Teaching Assistant, University of Belgrade, 1984-1986

## Awards

Transactions Prize Paper Award, IEEE Power Electronics Society, 2008  
CU Boulder Inventor of the Year Award, 2006  
Bruce Holland Excellence in Teaching Award, ECE Department, CU Boulder, 2004  
Transactions Prize Paper Award, IEEE Power Electronics Society, 1997  
NSF CAREER Award, 1997  
NSF Research Initiation Award, 1993  
Best Paper Award, High-Frequency Power Conversion Conference, 1989  
Fullbright Fellowship, 1986  
Caltech Graduate Fellowship, 1986  
Best Electrical Engineering Graduate Award, University of Belgrade, 1984

## Selected Publications

1. Textbook: R.W.Erickson, D.Maksimovic, *Fundamentals of Power Electronics*, 2<sup>nd</sup> edition, Springer, 2001.
2. D. Maksimović, R. Zane, "Small-signal discrete-time modeling of digitally controlled DC-DC converters," *IEEE Trans. Power Electron.* Nov. 2007. **IEEE PELS Best Paper Award.**
3. H. Peng, A. Prodić, E. Alarcon, D. Maksimović, "Modeling of quantization effects in digitally controlled DC-DC converters," *IEEE Trans. Power Electron.*, vol.22, no.1, Jan. 2007, pp. 208-215.
4. V. Yousefzadeh, D. Maksimović, "Sensorless optimization of dead times in DC-DC converters with synchronous rectifiers," *IEEE Trans. Power Electron.*, vol.21, no.4, July 2006, pp. 994-1002.
5. A. Prodic, D. Maksimović, R. W. Erickson, "Dead-zone digital controllers for improved dynamic response of low harmonic rectifiers," *IEEE Transactions on Power Electronics*, Vol.21, No.1, January 2006, pp. 173-181.
6. B. Miao, R. Zane, D. Maksimović, "System identification of power converters with digital control through cross-correlation methods," *IEEE Trans. Power Electron.*, vol.20, no.5, Sept. 2005, pp. 1093-1099.
7. B. Patella, A. Prodic, A. Zirger, D. Maksimovic, "High-Frequency Digital PWM Controller IC for DC-DC Converters," *IEEE Trans. on Power El.*, Special Issue on Digital Control, January 2003.
8. A. Prodic, J. Chen, R. W. Erickson, D. Maksimovic, "Self-Tuning Digitally Controlled Low-Harmonic Rectifier Having Fast Dynamic Response," *IEEE Trans. on Power El.*, January 2003.
9. D. Maksimovic, A. M. Stankovic, V. J. Thottuvelil, G. C. Verghese, "Modeling and simulation of power electronic converters," invited paper, *Proceedings of the IEEE*, Vol.89, No.6, June 2001, pp.898-912.
10. D. Maksimovic, Y. Jang and R. Erickson, "Nonlinear-carrier control for high power factor boost rectifiers," *IEEE Trans. on Power El.*, vol.11, no.4, July 1996, pp.578-584. **IEEE PELS Best Paper Award.**