

Behzad Nouri

55 Golflinks Drive,
Ottawa, Ontario, Canada K2J 4Y3

Phone: 613-491-0869, Cellphone: 613-808-9800

bn@ieee.org

www.doe.carleton.ca/~sbnouri

Publications

- [1] Y. Tao, B. Nouri, E. Gad, M. Nakhla, Q. Sun, and R. Achar, "MIP: moment-based interpolation projection for parameterized reduced models of the DC operating point in nonlinear circuits," in *Proc. 26th IEEE Conf. Elect. Perform. Electron. Packag. Syst.*, San Jose, CA, USA, Oct. 2017, pp. 1–3, Submitted.
- [2] Y. Tao, K. Guo, F. Ferranti, B. Nouri, M. S. Nakhla, and R. Achar, "Time-domain variability analysis of large circuits with stochastic linear terminations," in *Proc. 21st IEEE Workshop on Signal and Power Integrity*, Lake Maggiore, Baveno, Italy, May 2017, pp. 1–4.
- [3] B. Nouri, M. S. Nakhla, and X. Deng, "Stable model-order reduction of active circuits," *IEEE Trans. Compon., Packag., Manuf. Technol.*, vol. 7, no. 5, pp. 710–719, May 2017.
- [4] B. Nouri, M. S. Nakhla, and R. Achar, "Efficient simulation of nonlinear transmission lines via model-order reduction," *IEEE Trans. Microw. Theory Tech.*, vol. 65, no. 3, pp. 673–683, Mar. 2017.
- [5] Y. Tao, B. Nouri, M. S. Nakhla, M. Farhan, and R. Achar, "Variability analysis via parametrized model order reduction and Numerical Inversion of Laplace Transform," *IEEE Trans. Compon., Packag., Manuf. Technol.*, vol. 7, no. 5, pp. 678–686, Jan 2017.
- [6] K. Guo, F. A. Sheikh, B. Nouri, F. Ferranti, and M. Nakhla, "Efficient time-domain variability analysis of active circuits," in *Proc. IEEE Elect. Des. Adv. Packag. and Syst. Symp.*, Honolulu, HI, USA, Dec. 2016, pp. 1–4.
- [7] K. Guo, F. Ferranti, B. Nouri, and M. Nakhla, "A stochastic collocation technique for time-domain variability analysis of active circuits," in *Proc. 25th IEEE Conf. Elect. Perform. Electron. Packag. Syst.*, San Diego, CA, USA, Oct. 2016, pp. 47–50.
- [8] Y. Tao, B. Nouri, M. S. Nakhla, and R. Achar, "Efficient time-domain variability analysis using parameterized model-order reduction," in *Proc. 20th IEEE Workshop on Signal and Power Integrity*, Turin, Italy, May 2016, pp. 1–4.
- [9] Y. Tao, M. Farhan, B. Nouri, M. S. Nakhla, and R. Achar, "Efficient variability analysis using parameterized model-order reduction," in *Proc. IEEE MTT-S Int. Microwave Symp.*, San Francisco, CA, USA, May 2016, pp. 1–3.

- [10] X. Deng, B. Nouri, and M. S. Nakhla, "Stability preserving algorithm for model order reduction of active networks," in *Proc. 24th IEEE Conf. Elect. Perform. Electron. Packag. Syst.*, San Jose, CA, USA, Oct. 2015, pp. 181–184.
- [11] B. Nouri, M. S. Nakhla, and R. Achar, "A novel algorithm for efficient simulation of nonlinear transmission lines for RF applications via model order reduction," in *Proc. IEEE MTT-S Int. Conf. Num. Electromagn. Multiphys Modeling Optim.*, Ottawa, Ontario, Canada, Aug. 2015, pp. 1–3.
- [12] B. Nouri, M. S. Nakhla, and R. Achar, "Efficient reduced-order macromodels of massively coupled interconnect structures via clustering," *IEEE Trans. Compon., Packag., Manuf. Technol.*, vol. 3, no. 5, pp. 826–840, May 2013.
- [13] B. Nouri, M. S. Nakhla, and R. Achar, "Optimum order estimation of reduced macromodels based on a geometric approach for projection-based MOR methods," *IEEE Trans. Compon., Packag., Manuf. Technol.*, vol. 3, no. 7, pp. 1218–1227, Jul. 2013.
(Best Transaction Paper Award)
- [14] B. Nouri, M. S. Nakhla, and R. Achar, "A novel algorithm for optimum order estimation of non-linear reduced macromodels," in *Proc. 22nd IEEE Conf. Elect. Perform. Electron. Packag. Syst.*, San Jose, CA, USA, Oct. 2013, pp. 137–140.
- [15] B. Nouri, M. S. Nakhla, and R. Achar, "A novel algorithm for optimum order estimation of reduced order macromodels," in *Proc. 15th IEEE Workshop on Signal and Power Integrity*, Naples, Italy, May 2011, pp. 33–36.
(Best Paper Award)
- [16] B. Nouri, R. Achar, and M. S. Nakhla, "z-Domain orthonormal basis functions for physical system identifications," *IEEE Trans. Adv. Packag.*, vol. 33, no. 1, pp. 293–307, Feb. 2010.
- [17] B. Nouri, M. S. Nakhla, and R. Achar, "A novel clustering scheme for reduced-order macromodeling of massively coupled interconnect structures," in *Proc. 19th IEEE Conf. Elect. Perform. Electron. Packag. Syst.*, Austin, TX, USA, Oct. 2010, pp. 77–80.
- [18] B. Nouri, R. Achar, M. S. Nakhla, and D. Saraswat, "z-Domain orthonormal vector fitting for macromodeling high-speed modules characterized by tabulated data," in *Proc. 12th IEEE Workshop Signal Propag. Interconnects*, Avignon, France, May 2008, pp. 1–4.

Thesis:

- [19] S.-B. Nouri, "Advanced model-order reduction techniques for large-scale dynamical systems," Ph.D. dissertation, Dept. Elect., Carleton Univ., Ottawa, Canada, Sep. 2014.
-

- [20] B. Nouri, M. S. Nakhla, and R. Achar, “Advanced macromodeling algorithm for sampled time/frequency domain measured/tabulated data,” Master’s thesis, Dept. Elect., Carleton Univ., Ottawa, Canada, Feb. 2008.
-