

## **George John Toscano**

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### **EDUCATION**

- i) BSc in Electrical and Electronic Engineering, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh, 2005
- ii) MSc in Electrical and Electronic Engineering, Bangladesh University of Engineering and Technology Dhaka, Bangladesh, 2008
- iii) PhD in Electrical Engineering, University of Texas at Arlington, Arlington, Texas, 2015.

### **TEACHING INTERESTS**

#### UNDERGRADUATE COURSES

- i) Introduction to Computing using Visual Basic and Excel
- ii) Introduction to Computer Science
- iii) Communication Engineering
- iv) Digital Logic Design
- v) Microwave Engineering
- vi) Object-Oriented Programming
- vii) Linear Systems and Signals
- viii) Random Signals

#### GRADUATE COURSES

- i) Microwave Engineering
- ii) Machine Learning
- iii) Computer Vision
- iv) Studies on Current Research
- v) Digital Signal Processing
- vi) Digital Image Processing

### **RESEARCH INTERESTS**

- i) Machine Learning
- ii) Computer Vision
- iii) Remote Sensing

### **HONORS and ACTIVITIES**

- i) Awarded Dean's Doctoral fellowship for Eight Semesters at University of Texas at Arlington

### **SELECTED PUBLICATIONS**

#### Journals:

- 1) **Toscano, G. J.**, Saha, P. K., Zahirul Alam, A. H. M, Design of a High-speed, Reconfigurable Digital Rank Order Filter, International Islamic University Malaysia Engineering Journal. Vol. 10, No.1, 2009.

#### Conference Proceedings:

- 1) **Toscano, G. J.**, Hossain, G., Predicting the Effect of Parental Education and Income on Infant Mortality through Statistical Learning, *1<sup>st</sup> International Conference on Data Intelligence and Security*, South Padre Island, April, 2018.

- 2) Acharjee, P., **Toscano, G. J.**, McCormick, C. and Devarajan, V., Performance analysis of a novel algorithm for large scale water-body surface mapping using elevation and intensity of LiDAR data, *Imaging and Geospatial Technology Forum, IGTF 2016 - ASPRS Annual Conference*. Fort Worth, Texas, 2016.
- 3) **Toscano, G. J.**, Acharjee, P.P., McCormick, C., & Devarajan, V., Water Surface Elevation Calculation Using LiDAR Data. Proceedings, *ASPRS Conference*, Tampa, Florida, May, 2015.
- 4) Acharjee, P. P., **Toscano, G. J.**, & Devarajan, V. A novel angular filter based LiDAR point cloud classification. In *Imaging and Geospatial Technology Forum, IGTF 2015 - ASPRS Annual Conference and co-located JACIE Workshop*. (pp. 42-51). Tampa, Florida, May, 2015.
- 5) **Toscano, G. J.**, Gopalam, U. K., & Devarajan, V., Auto Hydro Break Line Generation Using LiDAR Elevation and Intensity Data. Proceedings, *ASPRS Conference*, Louisville, Kentucky, March, 2014.
- 6) **Toscano, G. J.**, Gopalam, U., and Devarajan, V., A novel method for automation of 3D hydro break line generation from LiDAR data using MATLAB, *International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences*, XL-2/W2, 99-104, 2013.
- 7) **Toscano, G. J.**, Saha, P. K., A High Throughput Digital Rank Order Filter in 0.18  $\mu\text{m}$  CMOS Technology. Proceedings *IEEE TENCON*, Fukuoka, Japan, November 21-24, 2010.
- 8) **Toscano, G. J.**, Saha, P. K., A Fully Digital Nonlinear, High-speed Rank Order Filter in 0.18 $\mu\text{m}$  CMOS Technology. Proceedings *5<sup>th</sup> International Conference on Electrical and Computer Engineering*, 20-22, Dhaka, Bangladesh, December, 2008.
- 9) **Toscano, G. J.**, Saha, P. K., Zahirul Alam A. H. M., A New VLSI Architecture for a Reconfigurable, High-Speed, Digital Rank Order Filter, Proceedings *International Conference on Computer and Communication Engineering*, Kuala Lumpur, Malaysia, May 13-15, 2008.