



## Vasil Hnatyshin

Professor & Department Head  
Computer Science

[hnatyshin@rowan.edu](mailto:hnatyshin@rowan.edu)

<http://users.rowan.edu/~hnatyshin>

### Education:

BS (Computer Science), Widener University (Summa Cum Laude)

MS (Computer and Information Sciences), University of Delaware

PhD (Computer and Information Sciences), University of Delaware

### Research Expertise:

Simulation and Modeling of Computer Networks using OPNET | Network Security | Statistical Data Mining and Data Analytics

I am currently working on the following projects: application of similarity functions together with partition around medoids and k-modes algorithms to network security, implementation and development of software for analyzing pharmaceutical data, study of Random Forests algorithm effectiveness for analyzing metaboloids data produced by mass spectrometer, study of location-aided routing protocols for wireless networks through simulation and modeling techniques using OPNET software.

### Member of:

Institute of Electrical and Electronics Engineers (IEEE)

### Recent Academic Projects:

Created and deployed new co-op/internship program for Computer Science students together with the Rowan's Career Management Center, CSM Dean's office, and such industrial partners as Lockheed Martin, ASRC Federal, Keystone Industries, and others.

### Recent Publications:

Dixon M, Genov S, Hnatyshin V, Thayasivam U (2018) Accuracy of Clustering Prediction of PAM and K-Modes Algorithms, Proc. of IEEE Future of Information and Communication Conference

Muck IB, Hnatyshin V, Thayasivam U (2016) Accuracy of Class Prediction using Similarity Functions in PAM, Proc. of IEEE International Conference on Industrial Technology 586-591

Hnatyshyn S, Thayasivam U, Hnatyshin V, White C (2015) Chapter 7: Machine learning algorithms for metabolomics applications, In book: Identification and Data Processing Methods in Metabolomics, Chapter: 7, Publisher: Future Science Book Series, pp. 96-110.

Wakemen J, Hodson M, Shafer P, Hnatyshin V (2013) Using High-Powered Long-Range ZigBee Devices for Communication During Amateur Car Racing Events, Proc. of International Conference on Wireless Communications, Vehicular Technology, Information Theory and Aerospace and Electronic Systems Technology.

Hnatyshin V (2013) "Improving MANET Routing Protocols Through The Use Of Geographical Information," International Journal of Wireless & Mobile Networks (IJWMN), Vol. 5, No. 2.