

The IEEE Cleveland Chapter of Control Systems Society and  
HKN Epsilon Alpha Chapter Jointly Present

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## ***Evolutionary Algorithms for Engineering Optimization***

**Friday, 3:00 pm, Nov. 18, 2011**  
**(3:00-3:30: Social hour, 3:30-4:30: Seminar)**

**Guest Speaker-----Dr. Dan Simon**  
**Professor of Electrical Engineering**  
**Cleveland State University**

When confronted with engineering challenges, we often look to nature for inspiration. Solar power, flying robotic insects, prosthetics, and smart sensors and materials, are just a few examples of nature-inspired engineering systems. Nature also inspires us in our design of optimization algorithms. Professor Simon recently developed a new optimization algorithm, called biogeography-based optimization (BBO), which is motivated by the migration behaviors of biological species. In this seminar we give an overview of natural biogeography, discuss its extension to the BBO algorithm, and show some examples of biomedical optimization applications.

Address: Stillwell Hall 103 (Compton Lounge)  
Fenn College of Engineering, Cleveland State University  
1960 East 24<sup>th</sup> Street • Cleveland, OH 44115

***Refreshment and soft drink will be provided!***

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CPD Credit: 1 CPD hour is available. Please bring this flyer for credit.

This is to certify that \_\_\_\_\_ attended this seminar. Certified by \_\_\_\_\_ . Certificates of attendance and other evidence of CPD activity should be retained by the attendee for auditing purposes.