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# Invitation to a talk by Dr hab. Piotr Oprocha Prof. nadzw.

Faculty of Applied Mathematics  
AGH University of Science and Technology  
Kraków, Poland

## TOPOLOGICAL COMPLEXITY

### Time

Wednesday, 28th of January 2015, from 12:30 to 13:30

### Abstract

In early 1990s Francois Blanchard initiated a search for satisfactory topological analogue of Kolmogorov systems. Later, Blanchard's ideas were widely extended by various authors forming so-called local entropy theory. It gave motivation to such concepts as entropy tuples, complexity tuples or weakly mixing pairs and sets.

In this talk we will introduce basics from the theory of discrete dynamic systems and we will discuss various concepts, which describe different gradations of complexity of trajectories. We will also study dependencies and implications between considered properties.

### Venue

Room EC1 (The new FEI building)

### About the Speaker

Prof. Piotr Oprocha is an expert in the field of discrete dynamic systems, that is rapidly developing research area. He wrote more than 67 research papers that were published in top journals including reputable *Transactions of the American Mathematical Society*. He was quoted more than 300 times and his *h-index* is 10. He was also invited speaker on many high standing conferences held across the world, and collaborates with many researchers from prestigious universities around the world.