MONTHLY WEBINAR ON PAIRWISE COMPARISON METHODS

Organized jointly by AGH University Cracow and Silesian University in Opava

The date: Friday, January 31, at 13:00 (CET)

The Speaker: Dr. Kevin Kam Fung Yuen (The Hong Kong Polytechnic University)

The title: The Primitive Cognitive Network Process

Abstract: Analytic Hierarchy Process (AHP) is a popular evaluation method used in engineering, business and management. However, the knowledge representation of paired ratio scale in AHP is doubtful. To address the identified drawbacks, paired interval scale for comparison evaluation is recommended. Paired interval scale is the key foundation of Cognitive Network Process (CNP) firstly proposed by K.K.F. Yuen in 2009. This talk discusses the limitations of classical rating methods, indicates the motivations of pairwise comparisons, reviews the details of AHP, highlights its drawbacks, articulates the motivations of CNP, demonstrates the usability of how CNP can be applied to a selection problem, and compares the results between CNP and AHP and concludes the reasons why CNP is better than AHP for the competitive selection cases. The proposed CNP method can be applied to diverse selection problems in engineering, business, and management.

How to connect via Zoom:

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Anyone interested in delivering a talk for future webinars please contact Dr. Mazurek (mazurek@opf.slu.cz)