

## **A hybrid approach to modeling and solving decision and optimization problems**

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Facultad de Informática

Sala de Grados - jueves 24 de octubre de 2024 - 15:00

*Entrada libre hasta completar el aforo*

### **Resumen:**

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The lecture presents the assumptions and implementation of a hybrid approach to modeling and solving discrete decision and optimization problems. Hybridization concerns two environments of mathematical programming and constraint logic programming. The advantages and disadvantages of both environments in the context of modeling discrete problems are presented. The results obtained using a hybrid approach for distribution problems such as VRP, SCM, etc. are presented.

### **Sobre Paweł Sitek:**

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Paweł Sitek is Associate Professor at the Department of Electrical Engineering, Automatic Control and Computer Science of Kielce University of Technology in Poland. He teaches the following courses: Databases, Data Warehousing and Data Mining, Information Management Systems, Project Management, etc. His research includes operation research, constraints programming techniques, production planning and scheduling, discrete optimization, decision support systems and artificial intelligence. He is an author and co-author over 140 manuscripts including: international journals (JCR), chapters in books and conference proceedings. He is an editor and reviewer for a number of international journals and conferences such as DCAI (Conference on Distributed Computing and Artificial Intelligence), ICCCI (International Conference on Computational Collective Intelligence), ACIIDS (Asian Conference on Intelligent Information and Database Systems)