

程序代写代做 CS编程辅导



MBA8419 WeChat: cstutorcs Decision Making Technologies Email: tutorcs@163.com

INTRODUCTION - FALL 2022749389476

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Analytics

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Three definitions of « analytics »

A synonym for « statistics » ou «

A synonym for« data science »

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• Quantitative approaches to tackle decision making in an organizational context

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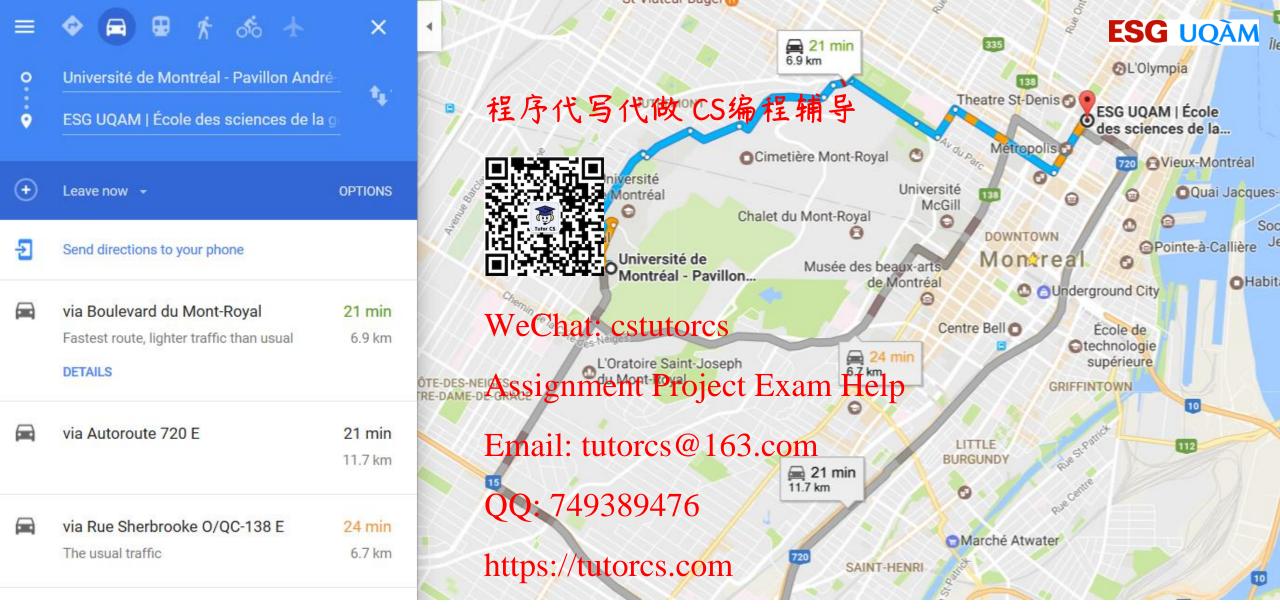
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(*) INFORMS: Defining analytics: a conceptual framework https://www.informs.org/ORMS-Today/Public-Articles/June-Volume-43-Number-3/Defining-analytics-a-conceptual-framework





Word cloud « Analytics » (Wikipedia) https://www.wordclouds.com/



The shortest path problem: find the fastest path, based on quantifiable / measurable information



Examples: descriptive predictive and prescriptive business analytics

	Descriptive Analytics	Predictive Analytics	Prescriptive Analytics	
	What happened?	What will likely happen?	How should we act?	
Marketing	How many sales did marketing campaign A generate?	A How many sales will marketing xam How many sales will marketing xam How campaing B generate?	How should we organize the next marketing campaign to maximize sales?	
Finance	How much annual return did mutual fund A generate the last 5 years?	Email: tutorcs@163.com How much annual return will mutual fund B generate next year? QQ: 749389476	Which mutual funds should be positioned in a portfolio to maximize the expected return?	
Production planning	What were the customer demands for product X in region A throughout the last 12 months?	What customer demand can we expect https://www.commonth?	How many units of products X and Y should we produce to maximize total sales profit?	

Source: http://gestisoft.com/differences-entre-lintelligence-daffaires-et-lanalyse-predictive/





Descriptive Analytics



Prescriptive **Analytics**

■ OR is part of analytics: **prescriptive analytics** We Chat: cstutorcs

Several definitions:

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 OR is the discipline of scientific methods used to make better decisions.
- OR proposes conceptual models to mailing to toropiex in the second and enables decision makers to take efficient decision.
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 OR is a discipline at the intersection of mathematics, economy and computer science.
- OR is naturally related to the industry and the industr



程序代写代做 CS編程辅导 Operations Research (OR)

- Objective:
 - Propose decisions to make the be
- This assumes that we are able to:
 - Take measurements
 - According to certain performance indicators
- Indicators:
 - Costs
 - Profit
 - Service quality
 - Customer satisfaction

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vailable means.

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^{*} De la présentation « Recherche Opérationnelle et Génie Industriel », J-C Billaut, ROADEF



An optimizatio和原列 (alias decision making technology)

- Objective:
 - Propose decisions to make the be
- Minimize (reduce) costs number of errors waiting time

Maximize (increase)

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service frequency

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vailable means.

■ by adjusting the decision variables production quantity of production and production frequency of bus 51 between 7h00 and 9h00 number of salespersons to 100: 749389476

or

and respecting the constraints and requirements
do not exceed the available budget tutorcs.com
hire at least one sales person per department
respect the maximum capacity of available resources



Implementation 程序 可以证据证据ign model - Who has the last word?

- The manager!
 - She defines the mandate of the « consult * •
 - She interacts with them to elaborate the
 - She validates the results
- Analytics is an essential "tool box" of fweethate. estutores
- The manager needs to understand the methods and techniques used to:
 - Model the problem
 - Solve the model
 - Analyze the solution

In order to be able to

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크l or external)

- Discuss with the consultants, understanding the important details and be able to judge whether the project was a success, or not.

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 Understand which data is required to nourish the model and to make efficient decisions.

Objective of the course:

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Enable the students with the tools to play such a role.



Cours objectives

The objective of the course is to to the student a systematic methodology to provide decision support to complex plants are such methodology in order of the most common planning problems, i.e., those that are often found in practice. In this context, the course has 3 principal objectives: :

- 1) Understand the role of decision making teshubugies in an enterprise, know its possibilities and its limitations, and be able identify the circumstances in which optimization models can be useful. Assignment Project Exam Help
- 2) Be able to identify and structure an optimization model given a planning context, i.e., identify the decision variables, the neces in the decision variables, the decision variables, the neces in the decision variables. appropriateness of a solution method.
- 3) Have an understanding how to analyze the proposed solutions to conclude whether those are feasible in practice, and how to estimate whether such optimized solution is effectively more efficient than current planning practices./tutorcs.com

Introduction of the lecturer

Sanjay Dominik Jena

Associate professor, Department of the Operations and Information Technologies, ÉSG UQÀM

- Experience / training::
 - AXA Insurances; B.Sc. Comp Sc. (FH Köln); M.Sc. R.O.(PUC-Rio); Ph.D. R.O. (UdeM); Postdoc. (MIT SMART)
- WeChat: cstutorcs Expertise and research interests:
 - Operations research; mathematical optimization
 - Assignment Project Exam Help Optimization under uncertainty
 - Data science and machine learning
 - Applications: logistics and transport in a falcility to a tion of the project management in the second se
- Affiliation to research centers:
 - Interuniversity research center for experise 423894166 stics and transportation (CIRRELT)
 - Excellence research chair in Data Science for Real-time decision making
 - Research center for intelligent² mantagent/afictionnelsx systems (CRI²GS)
- Industrial partners:
 - BIXI, Netlift, Cascades, JDA Labs, FPInnovations, GAPSO Analytics



Course plan

- Session 1 Introduction & LP
 - watch videos
 - 20h00 -22h30: live course / Q & A
- Session 2 Network models
 - watch videos
 - 20h00 -22h30: live course / Q & A
- Session 3 Integer programming
 - watch videos
 - 20h30 -22h30: live course / Q & A
- Session 4 Revision
 - 20h30 -22h30: live course / Q & A
- Final exam (individual)

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Evaluation

- Final exam (individual): 100%
 - Communication during exam not allowed

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Assignment Project Exam Help cheating: course

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