

IDENTIFIABILITY OF LINEAR COMPARTMENT MODELS: THE SINGULAR LOCUS

ELEAZBETH GROSS, NICOLETTE MESHKAT, AND ANNE SHIU

ABSTRACT. This work addresses the problem of identifiability, that is, the question of whether parameters can be recovered from data, for linear compartment models. Using standard differential algebra techniques, the question of whether a given model is generically locally identifiable is equivalent to asking whether the Jacobian matrix of a certain coefficient map, arising from input-output equations, is generically full rank. We give a formula for these coefficient maps in terms of acyclic subgraphs of the model's underlying directed graph. As an application, we prove that two families of linear compartment models, cycle and mammillary (star) models with input and output in a single compartment, are identifiable, by determining the defining equation for the locus of non-identifiable parameter values. We also state a conjecture for the corresponding equation for a third family: catenary (path) models. These singular-locus equations, we show, give information on which submodels are identifiable. Finally, we introduce the *identifiability degree*, which is the number of parameter values that match generic input-output data. This degree was previously computed for mammillary and catenary models, and here we determine this degree for cycle models. Our work helps shed light on the question of which linear compartment models are identifiable.

1. INTRODUCTION

This work focuses on the identifiability problem for linear compartment models. Linear compartment models are used extensively in biological applications, such as pharmacokinetics, toxicology, cell biology, physiology, and ecology [2, 3, 7, 9, 12]. Indeed, these models are now ubiquitous in pharmacokinetics, with most kinetic parameters for drugs (half-lives, residence times, and so on) based at least in part on linear compartment model theory [13, 18].

A mathematical model is *identifiable* if its parameters can be recovered from data. Using standard differential algebra techniques, the question of whether a given linear compartment model is (generically locally) identifiable is equivalent to asking whether the Jacobian matrix of a certain *coefficient map* (arising from certain *input-output equations*) is generically full rank. Recently, Meshkat, Sullivan, and Eisenberg gave a general formula for the input-output equations of a linear compartment model [11]. Using this formula, it is easy to check whether a given model is (generically locally) identifiable. Nevertheless, we would like to bypass this formula. That is, *can we determine whether a model is identifiable by simply inspecting its underlying directed graph?* Or, as a first step, *if a model is identifiable, when can we conclude that a given submodel is too?* Our interest in submodels, obtained by removing edges, has potential applications: the operation of removing an edge in a model may correspond to a biological intervention, such as a genetic knockout or a drug that inhibits some activity. Identifiable submodels have been studied by Vajda and others [14, 16].

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our travel and tourism training is designed to give you the skills and knowledge to maximize career opportunities in this rapidly expanding industry from entry level travel agent basics to senior management for agencies or tour operations each course leads to an iata qualification recognized internationally by the travel industry

iata training program inspire - Dec 15 2022

aviation is globalization at its very best it helps people to live better lives it is the business of freedom and working for the aviation industry is a completely different experience inspire training academy is committed to train the aviation professionals of tomorrow

iata foundation in travel and tourism diploma - Feb 05 2022

1 course to be completed in 12 months acquire essential knowledge and skills to work in the travel and tourism industry and become an effective travel professional provide advice on flight accommodation and tour products and how to ensure travelers fulfill

iata taaa istanbul - Mar 18 2023

turkish aviation academy taa taaa is located at gate b of atatürk airport the location of the training academy allows for easy observation of turkish airlines best practices first hand turkish airlines aviation academy taaa atatürk airport gate

[iata travel tourism training](#) - Apr 19 2023

iata s travel and tourism training is designed to give you the skills and knowledge to maximize your career opportunities in a rapidly expanding industry that already employs 200 million professionals

[iata travel tourism diploma courses arccorp com](#) - Feb 17 2023

program details everything you need to know the iata travel and tourism courses cover all important areas and best practices to have a successful career in the travel and tourism industry see the topics that are covered in the training and exam the exam and training program are offered online environment

[travel and tourism consultant diploma partner taught or self study iata](#) - Jul 22 2023

150 hour partner taught or self study diploma study popular tourism destinations and improve your sales skills to successfully advise your clients on the best travel options

[iata travel and tourism consultant diploma self study](#) - May 20 2023

identify and consult on popular international travel and tourism destinations advise on modes of transportation accommodation and tours understand iata resolutions that apply to accredited travel agencies construct complex fares and manage changes to electronic tickets

[iata travel tourism training international air transport](#) - Aug 11 2022

iata travel tourism training with almost 2000 accredited travel agents in africa as valued iata partners we know your aches and pains in a rapidly expanding travel industry with 200 million professionals make sure you get the training you need to keep up with changes

[iata international travel amp tourism training program yumpu](#) - Jul 10 2022

jan 20 2013 strong iata strong s strong international strong strong travel strong strong tourism strong strong training strong strong program strong is designed to give you br the skills and knowledge to succeed in this exciting and growing industry br

[iata international travel tourism training program](#) - Mar 06 2022

iata international travel tourism training program go places with a career in travel foundation in travel and tourism this comprehensive diploma course is the starting

[iata travel tourism digital training](#) - Aug 23 2023

foundation in travel and tourism diploma acquire essential knowledge and skills to work in the travel and tourism industry and become an effective travel professional provide advice on flight accommodation and tour products and how to ensure

travelers fulfill

iata programs national aviation college - May 08 2022

the international air transport association iata is the trade association for the world s airlines representing some 250 airlines or 84 of total air traffic support many areas of aviation activity and help formulate industry policy on critical aviation issues

iata travel and tourism qualifications rbc's group - Nov 14 2022

a guide to iata travel and tourism courses iata travel and tourism qualifications the iata travel and tourism programme offered by international air transport association is the most complete travel and tourism training programme designed for those who wish to start a career in the travel and tourism industry or upgrade their

iata certification courses iitc - Oct 13 2022

in leading airlines airports iata approved travel agencies back offices tour companies the iata courses are globally recognized and are designed for those who wish to make a successful career in airline industry travel tourism industry and aviation industry

iata iatan academy - Jan 16 2023

iata iatan id card holders get up to 50 off on select iata training travel tourism courses learn more about iata training for id card in partnership with arc iata training offers their globally recognised travel and tourism diploma courses to existing and aspiring travel industry professionals in the u s

iata uftaa aeroport college of aviation - Jun 09 2022

iata iata uftaa foundation diploma in travel tourism introduction the programme provides individuals an opportunity to gain a broad understanding of reservation systems air fare calculation e ticketing handling customer queries global distribution systems familiarization with international travel documents iata rules and procedures

iata international travel tourism ebt training programme - Sep 12 2022

course objectives on completion of the training participants should be proficient in the use of global distribution systems be able to complete international travel documents in accordance with the applicable iata rules and procedures to answer customer queries quote rates supplements explain conditions and book tour products