



The 'Cruise Ship Railing Dance':

Conducting academic research in the cruise domain

Alexis Papathanassis

Imke Matuszewski

Paul Brejla

3rd International Cruise Conference – Dubrovnik (Croatia)

Dancing on the Railing...

Not optimal, but it is the only place to hold on!



Table of Contents

- ▶ Cruise Research Overview
- ▶ Applied Research Methods: Issues & Implications
 - Quantitative
 - Qualitative
- ▶ The Potential of Emerging Methods



CRUISE RESEARCH OVERVIEW

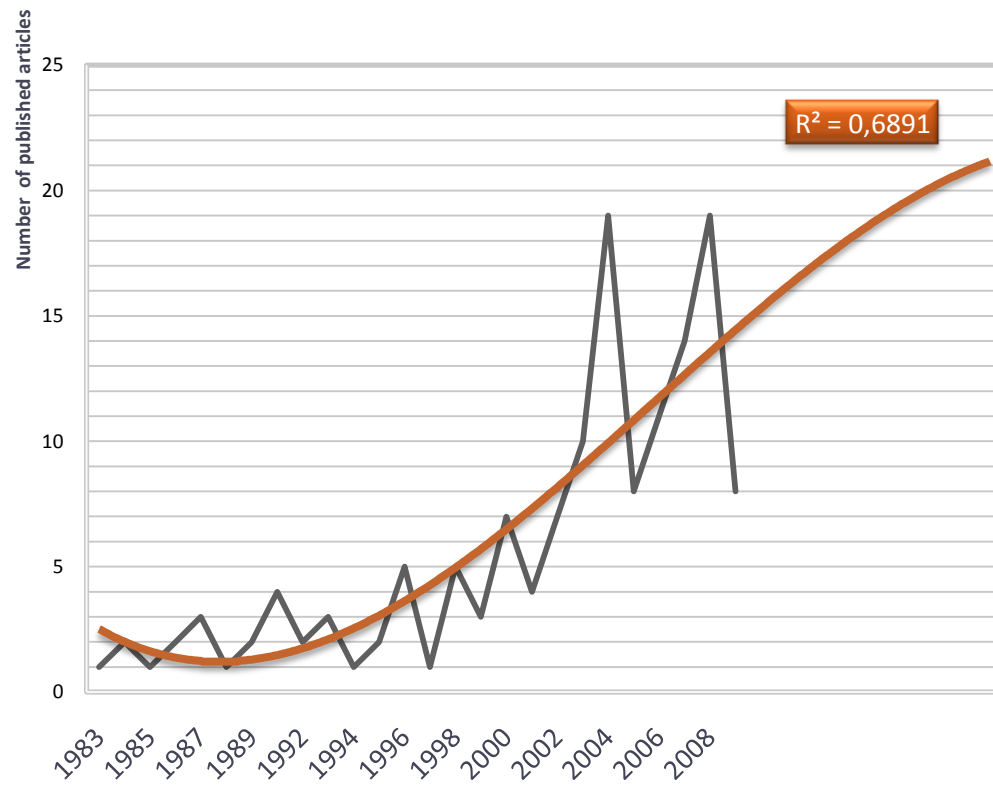
Status Quo

Cruise Research

Following the Sector's Growth Trend

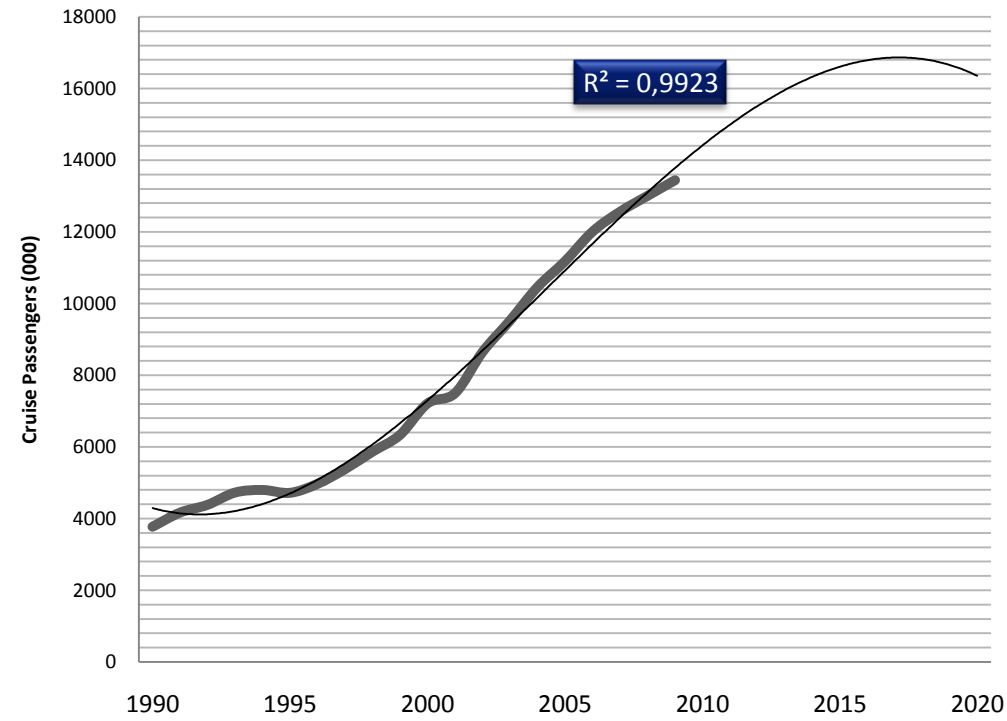
Cubic Extrapolation of cruise-related published articles

Data Source: Papathanassis & Beckmann 2011

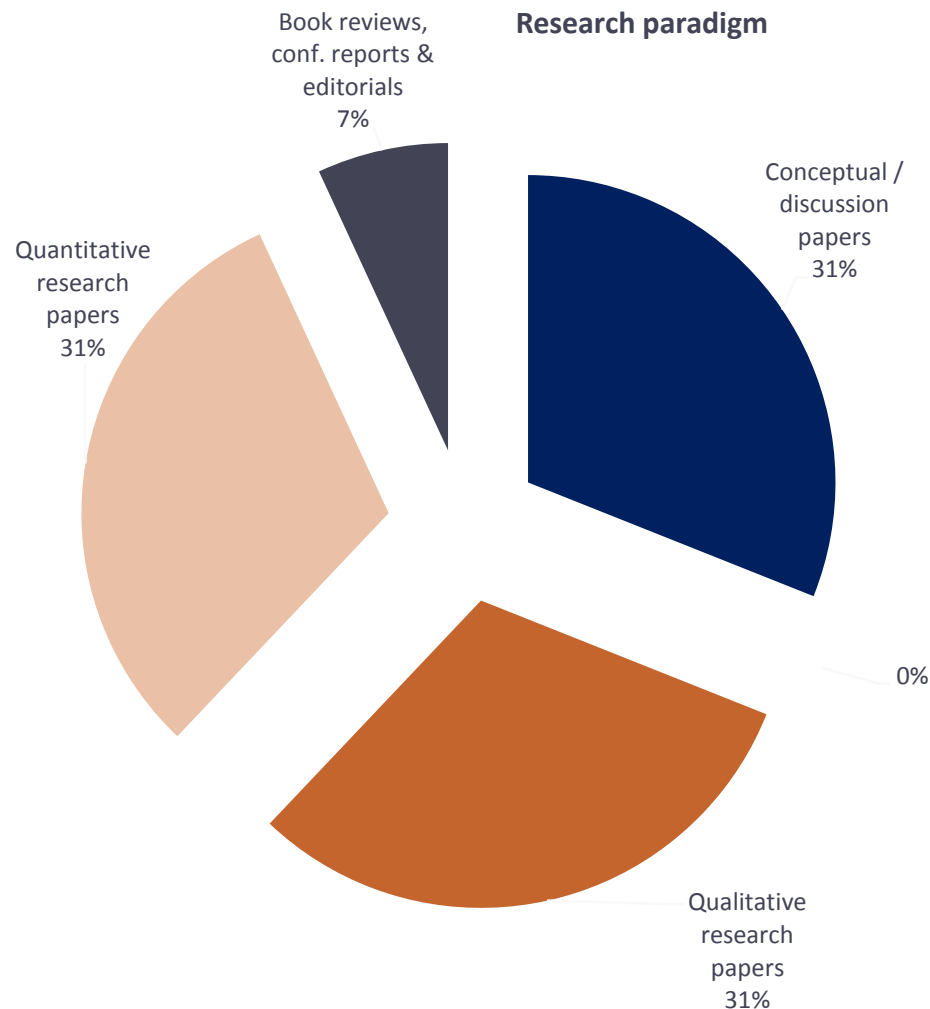


Cubic extrapolation of CLIA members' passenger numbers.

Data source: CLIA (2010)



Cruise Research Overview and Issues



- ▶ **Purpose question:**
 - Applied research (problem-oriented)?
 - Pure research (knowledge-oriented)?
 - Convenience research (researcher-oriented)?
- ▶ **Originality question:**
 - Novel theories / hypotheses?
- ▶ **Relevance question:**
 - Improved understanding of cruise-related phenomena?
 - Impact on the development of the sector?
 - Educational impact?
- ▶ **Rigour question:**
 - Transparency & replicability?
 - Contributions to the methodological toolkit?



APPLIED CRUISE RESEARCH

Quantitative Research & Cruising

Data Availability Determines Research Questions

Descriptive Statistics

- Examples: Marti, 1992; Teye & Leclerc, 1998; Douglas & Douglas, 2004
- Sampling Frame: Mostly single cruise (or cruises of the same company)
- Average sample size (primary): 340
- Secondary Data Sources: Sector indicators, Incidents, Websites, Brochures
- Data collection method: Questionnaire Survey (primary), Content analysis (secondary)

Majority of Quant. Research
(Turning funded market research into a published paper?)

Comparisons (ANOVA, Ch-Square, Cluster Analysis, Z- & t-Tests)

- Examples: Moscardo & Morrison, 1996; Miller & Tam, 2000; Petrick, 2003; Sirakaya & Petrick, 2004; Cramer & Blanton, 2006; Brownwell, 2008)
- Sampling Frame: Different voyages – same ship, secondary sources (e.g. GISS data, market research data)
- Average sample size: 1188 (primary), 15570 (secondary)
- Data Collection Method: Questionnaire Survey
- Data recycling: Petrick, 2003 – Sirikaya & Petrick, 2004)

Second Most Frequent Quant.
Research
(Data access opportunism?)

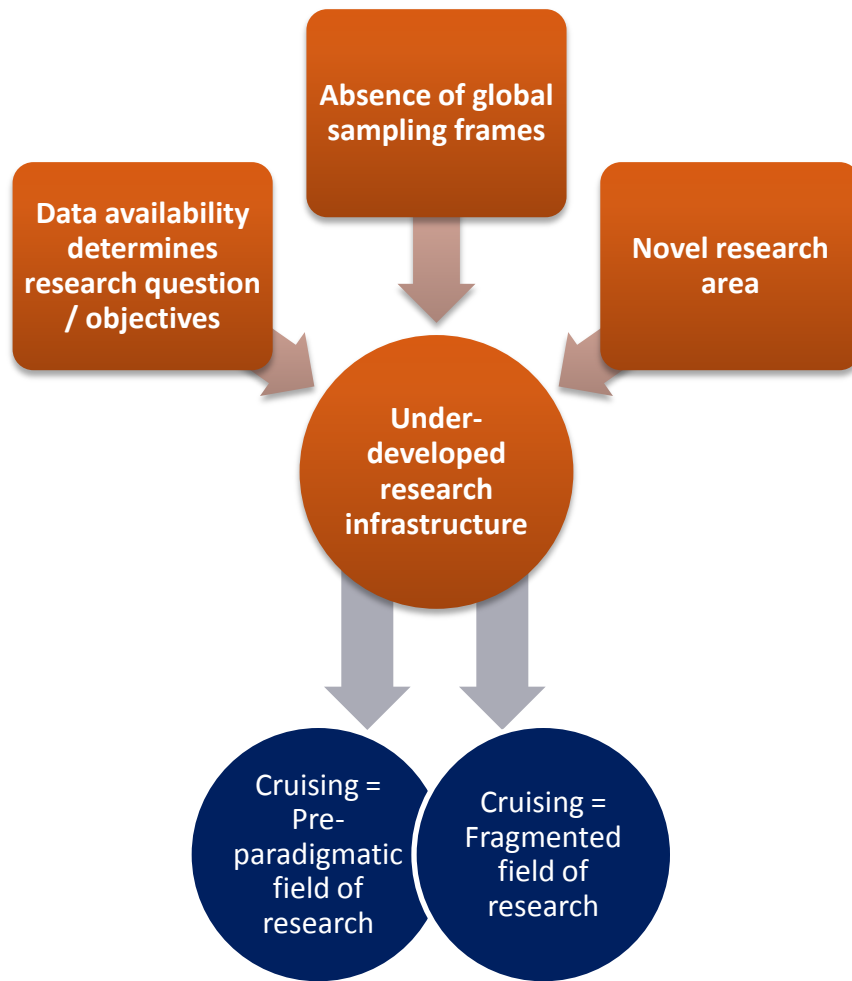
Association / Modelling (Wald Test, Univariate Analysis, Exploratory Factor Analysis)

- Examples: Marti, 2004; Gabe & Lynch, 2006; Jones, 2007; Hung & Petrick, 2010;)
- Sampling Frame (Av. Sample Size): Single port visitors (394), single cruise (300), undergraduates
- Data Collection Method: Questionnaire Survey & Semi-structured interviews
- Data Recycling: Hung & Petrick, 2010 x 2 (Journal of Tourism Management / Annals of Tourism Research)

Rare Quant. Research
(Lack of appropriate sampling frames?)

Quantitative Research & Cruising

Main Issues & Implications



Bridging the practice-research gap

- Academic practitioner journals (more focus on research relevance and discussion – wider audience)
- Closer involvement with professional associations (e.g. port alliances)
- Executive education for practitioners (bringing them closer to academia)

Academic networking

- Data / access sharing
- Development of research agendas
- Long-term research projects (beyond the scope of a single paper)

Qualitative research requirement

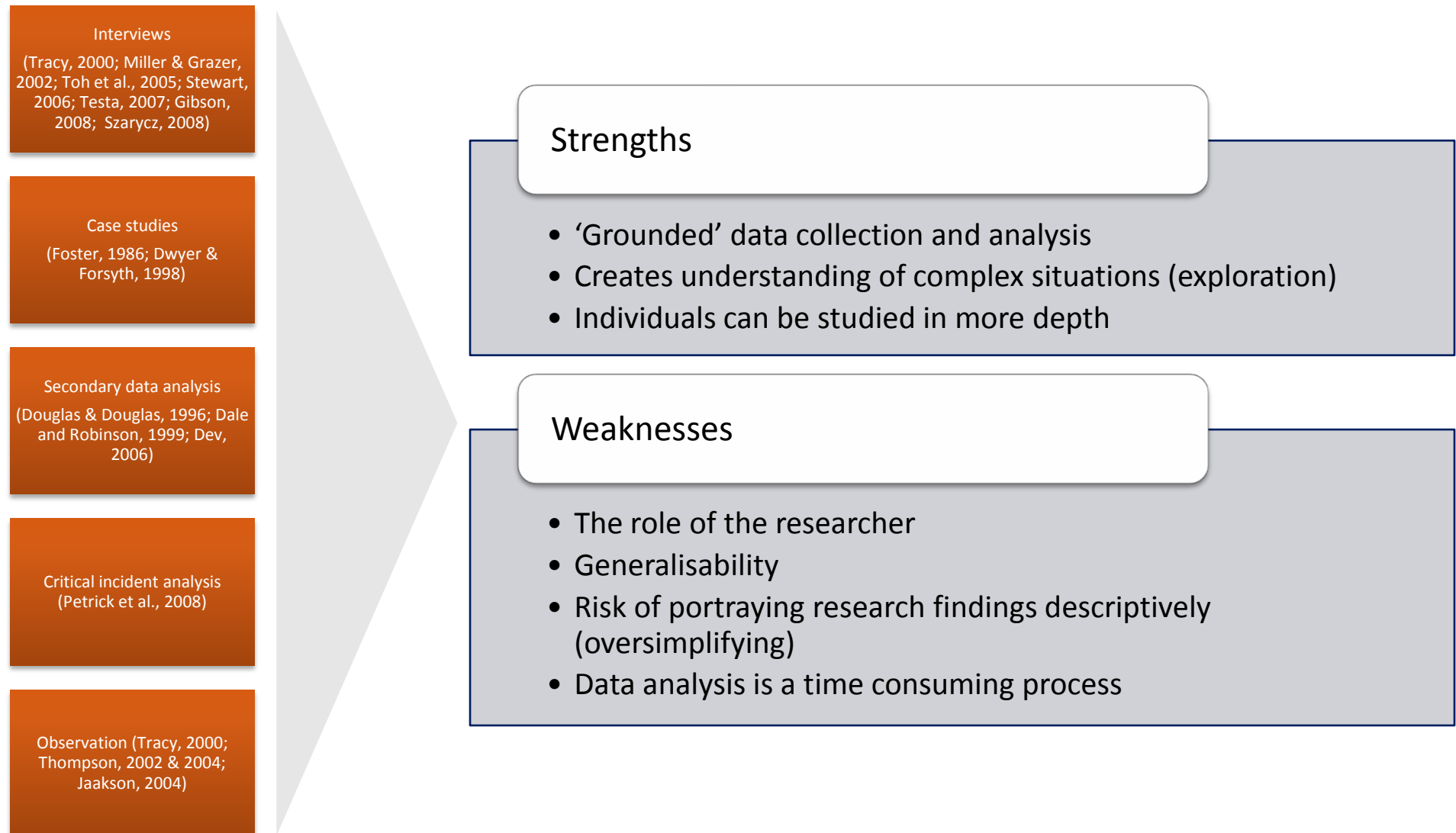
- Identification / creation of testable models / theories
- Theoretical / research continuity

Potential of online research methods

- Internet as a global sampling frame
- Open access
- Population Representiveness?

Qualitative Inquiry in the Cruise Industry

Methods Applied, Strengths & Weaknesses



Obstacles to (Qualitative) Inquiry in the Cruise Industry & Recommendations

Consensual Issues

- Particularly for studies not primarily focusing on economic advantages for the cruise operator
- Ethical considerations regarding covert vs. overt research

The Objective Nature of Cruise Ships

- Geographic nature sets boundaries for research
- Fragmentation of the industry
- Population diversity

Qualitative studies that create an understanding of a variety of situations from a variety of perspectives

Innovative research approaches that help to overcome the identified obstacles

Research Resources
(financially & time)

THE POTENTIAL OF EMERGING ONLINE RESEARCH METHODS

Data Mining Example – Cruise Critic

Online Content Analysis – Data Mining

Data Source

Fun Times on the Liberty – Carnival Review by endobaby


http://www.cruisecritic.com/memberreviews/memberreview.cfm?EntryID=45006

Home > Boards > Cruise Deals > Cruise Reviews > Features > Find a Cruise > Luxury > News > Planning > Ports > Styles > **Subscribe**

Carnival Liberty Cruise Review by endobaby

Home > Reviews > Member Reviews > Carnival Liberty Cruise Review by endobaby

Carnival Liberty



Member Name: endobaby
Cruise Date: July 2008
Embarkation: Miami
Destination: Eastern Caribbean
Cabin Category: IS
Cabin Number: 6306
Booking Method: Cruise Line

See More About: [Carnival Liberty Cruise Reviews](#) | [Eastern Caribbean Cruise Reviews](#) | [Carnival Cruise Deals](#)

Member Rating

Dining	5.0
Public Rooms	5+
Cabins	5.0
Entertainment	5.0
Spa & Fitness	Not Rated
Family & Children (By Age Group)	
10-12	5+
Shore Excursions	5.0
Embarkation	4.0
Service	5.0
Value-for-Money	5+
Rates	5.0

Write a cruise review!

Carnival Liberty

Check Prices for Carnival Cruises

Departure Month: Any Month
Destination: Caribbean - Eastern

Compare deals from top travel sites:

☒ Expedia ☒ AVOLTA TRAVEL ☒ ORBITZ
☒ travelocity ☒ Direct Line Cruises ☒ CRUISE.COM

Check Prices

Sponsored Links:

Ship Facts: [Carnival Liberty Review](#) (by Cruise Critic!) | [Carnival Liberty Deck Plans](#)

Fun Times on the Liberty

We just got back from cruising on the Carnival Liberty this morning and all I have to say, "AWESOME"! When I booked this trip almost 14 months ago I did not dream it was going to go so right...I expected a great time but by far it surpassed my ideal vacation. I will short and sweet

Booking through Carnival I had planned all of my details out down to prepaying the gratuities. I highly recommend this as

Context

Ratings

Text

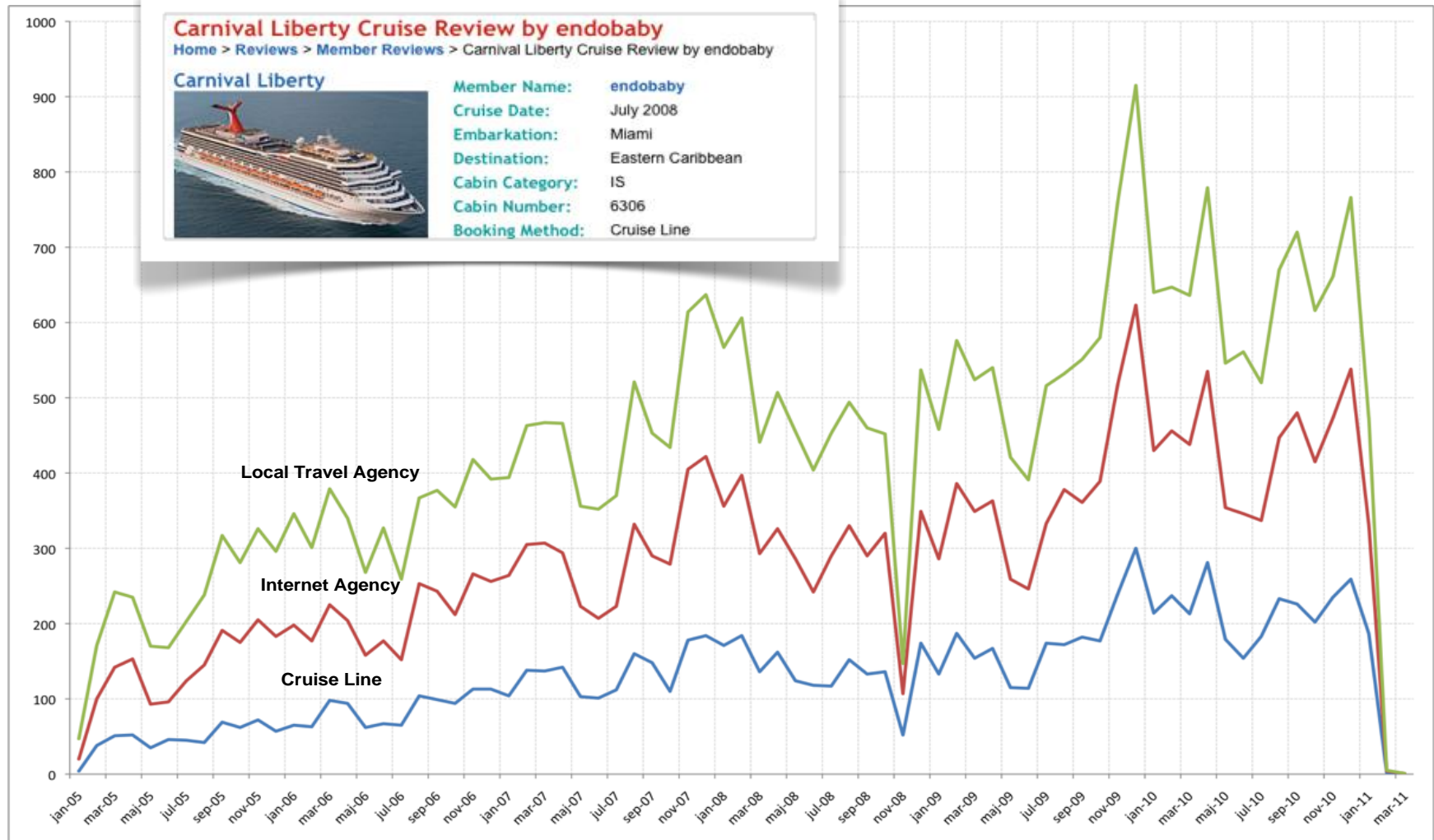
Online Content Analysis – Data Mining

After retrieval & post-processing

	overall_rating	dining	public_rooms	cabins	entertainment	spa_fitness	shore_excursions	embarkation
1	5.0	5.0	5.0	5.0	5.0	3.0	<NA>	3.0
2	1.0	5.0	3.0	1.0	6	3.0	<NA>	5.0
3	4.0	4.0	4.0	4.0	3.0	<NA>	4.0	4.0
4	5.0	5.0	4.0	6	4.0	<NA>	5.0	4.0
5	2.0	3.0	3.0	2.0	2.0	2.0	<NA>	1.0
6	3.0	4.0	5.0	4.0	3.0	5.0	3.0	4.0
7	6.0	5.0	5.0	6	3.0	<NA>	<NA>	5.0
8	2.0	1.0	2.0	1.0	4.0	<NA>	<NA>	1.0
9	4.0	4.0	5.0	5.0	3.0	<NA>	<NA>	5.0
10	5.0	5.0	5.0	4.0	3.0	5.0	4.0	5.0
11	6.0	5.0	5.0	6	5.0	<NA>	4.0	6
12	5.0	6	5.0	5.0	4.0	5.0	6	5.0
13	3.0	1.0	4.0	4.0	2.0	4.0	<NA>	3.0
14	4.0	4.0	5.0	4.0	4.0	<NA>	<NA>	4.0
15	5.0	6	5.0	6	6	5.0	6	6
16	5.0	4.0	5.0	5.0	4.0	<NA>	<NA>	2.0
17	4.0	4.0	6	6	4.0	6	2.0	4.0
18	4.0	4.0	4.0	4.0	3.0	3.0	<NA>	5.0
19	3.0	2.0	2.0	5.0	3.0	4.0	3.0	5.0
20	5.0	4.0	6	4.0	6	4.0	3.0	6
21	5.0	5.0	5.0	5.0	3.0	4.0	5.0	3.0
22	6.0	5.0	6	5.0	6	5.0	<NA>	6
23	1.0	1.0	5.0	5.0	2.0	3.0	1.0	5.0
24	6.0	6	6	6	5.0	5.0	3.0	5.0
25	4.0	4.0	3.0	5.0	3.0	2.0	<NA>	4.0
26	5.0	5.0	6	6	5.0	3.0	3.0	3.0
27	4.0	3.0	4.0	4.0	3.0	<NA>	<NA>	4.0
28	5.0	5.0	6	5.0	5.0	5.0	<NA>	6
29	3.0	3.0	3.0	3.0	2.0	4.0	3.0	4.0
30	5.0	3.0	5.0	5.0	6	6	<NA>	6
31	2.0	1.0	3.0	1.0	2.0	<NA>	5.0	4.0
32	6.0	6	5.0	1.0	6	5.0	<NA>	5.0
33	6.0	6	6	6	6	<NA>	6	6

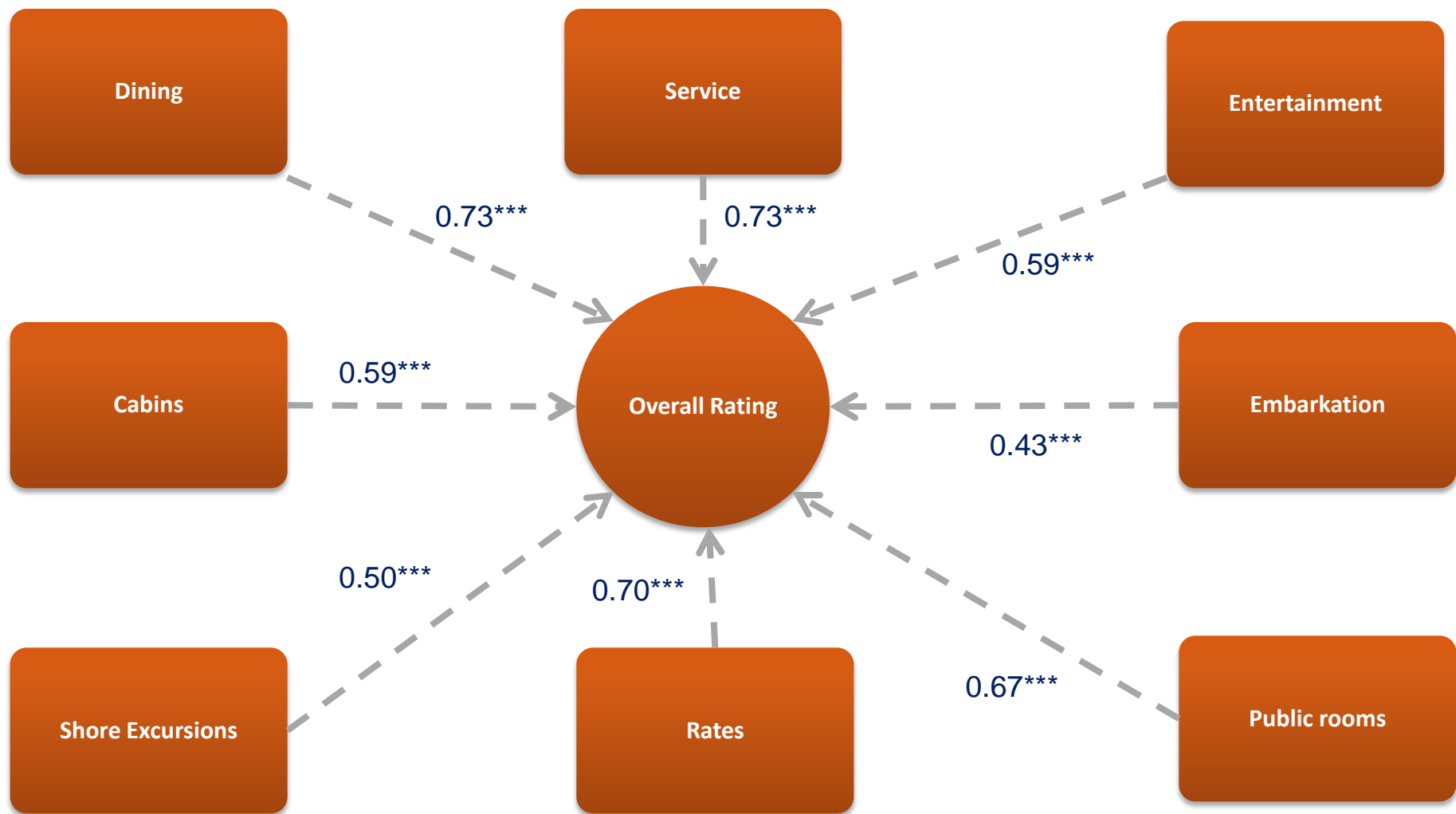
Source: CruiseCritic.com data set, The R Project for Statistical Computing.

Online Content Analysis – Data Mining Context



N = 33873. Source: CruiseCritic.com data set.

Online Content Analysis – Data Mining Analysis



*** Correlation is significant at the 0.01 level. **N** = 17066. Source: CruiseCritic.com data set.

Thanks for your attention!

