



The 6<sup>th</sup>

# CARME conference

**Correspondence Analysis and Related METHODS**

**8-11 February 2011**  
**Agrocampus Ouest**  
**Rennes FRANCE**

**50<sup>th</sup> anniversary**  
**of Correspondence Analysis**

<http://carme2011.agrocampus-ouest.fr>



Yves Blain - design

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Dear CARME participants,  
First of all, on behalf of Agrocampus Ouest, we'd like to welcome you to the 6<sup>th</sup> CARME conference that takes place for the first time in France, at Agrocampus Ouest, Rennes. This conference celebrates the 50<sup>th</sup> anniversary of correspondence analysis. This booklet contains (almost) all the practical information you need to know about this event, from the pre-conference tutorials that take place on February 8, to the conference itself from February 9 to February 11.

We hope that you will have a terrific time at the conference and that you will enjoy your stay in Rennes.

With kind regards from the organizing team.

#### ADDRESS

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#### CONTACT

+33 611 74 77 23 Registration desk

#### ORGANIZING COMMITTEE

> Karine Bagory, Alain Bernardeau, Yuna Blum, Anne Bourdeau, Marine Cadoret, Stéphane Crespel, François Husson, Gabriel Jalam, Julie Josse (President), Sébastien Lê, Elisabeth Lenauld, Vinciane Marchais, Jérôme Pagès

#### PROGRAM COMMITTEE

> Joërg Blasius, Michael Greenacre, Jérôme Pagès

#### WELCOME OFFICE

Opening hours:

- > Tuesday, February 7: 09:00–19:00
- > Wednesday, February 8: 08:30–18:20
- > Thursday, February 9: 08:45–18:30
- > Friday, February 10: 08:45–10:30

## PUBLIC TRANSPORTATION

How to get to the conference site

### ➔ From the airport

By taxi

You can go to the conference site or in the town centre by TAXIS (it is about 10 minutes from the town centre) +33 299 30 79 79

By bus

You can go in the town by BUS No. 57, bus stop *République*. Length of journey: about 35 minutes. Buses run from 5.30am to 0.11 am about once every 20 minutes (there is a more frequent service in the mornings and evenings and less buses at the weekend). Then for the conference site, see From downtown below.

### ➔ From the station

By subway

Take the subway (only one line, one every 3 minutes) direction J.F Kennedy. Get off at stop *Villejean Universités* (duration: 7 min). Then the conference site will be indicated (it is about 10 minutes by walk).

You can also take the subway to go downtown stop *République*.

### ➔ From downtown

By bus from *Place de la République*:

- Take the bus number 4 (one every 10 minutes, duration: 10 min) direction Beauregard. Get off at stop "*Marbeuf*". Then the conference site is about 5 minutes by foot and will be indicated.
- Take the bus number 53 (one every 20 minutes, duration: 10 min), direction La Chapelle Thourault. Get off at stop "*Agrocampus*": you are in front off the conference site.

By subway

Take the subway *Place Ste Anne* or *Place de la République* direction J.F Kennedy. Get off at stop "*Villejean Universités*". Then the conference site will be indicated (it is about 10 minutes by walk).

➔ Public parking areas next to the conference are available.

### LUNCH BREAK

Lunch is included in your registration fees.

For lunch the restaurant is the number 1 on the Campus map.

Opening hours: 13:15–14:30

### TEA/COFFEE BREAKS

The breaks will take place in the hall near the Rieffel lecture hall, the room 1 and the poster room (11 on the Campus map).

### RESTAURANTS AND BARS IN RENNES

Rennes offers a huge amount of bars and restaurants downtown. You can find different types of restaurants and bars.

Some of the most popular restaurants of Rennes are located rue Saint Georges, rue du Chapitre, rue Nantaise.

### RESTAURANTS AND BARS IN RENNES (proposed by the organizing committee)

#### >Traditional French food

L'amiral, Place de Bretagne, 1 rue de la Motte Picquet

Le bocal, 6 rue d'Argentré

Le café Breton, 14 rue Nantaise

L'atelier des gourmets, 12 rue Nantaise

La cantine des délices, 16 rue Nantaise

Le goût des hôtes, 8 rue Rallier du Baty

Monsieur est servi, 3 rue des Dames

Le Presse Purée, 34 rue Vasselot

Les Carmes, 2 rue des carmes

Le petit Sabayon, 16 rue des Trente

Brasserie de la Paix, 1 place de la République

Le café des Bains, 36 rue St Georges

Le Kub, 20 rue du chapitre

#### >Wine bar

Le Tir Bouchon, 2 rue du Chapitre

Nabuchodonosor, 12 rue Hoche

#### >Crêperie and Brittany specialities

Crêperie St Georges, 11 rue du Chapitre

La bonne pâte, 6 rue Derval

Ar Pilling, 10 rue d'Argentré

L'abri du marché, 12 place des lices

Au marché des lices, 3 place des lices

#### >Italian

La casa pepe, 29 rue St Georges

Papamia, 40 rue St Georges

#### >Others

Le fuji, 4 rue Derval

Falafel, 16 rue de St Malo

Le mandarin, 4 place de Bretagne

## INTERNET

To configure the wireless network on your computer:  
network agroETU                      key 451436df15

Each participant gets his own login and password in his envelope.  
You can find a computer room (named Ille, 4 on the Campus map) near the Matagrin lecture hall.

## IMPORTANT NUMBERS

### → Emergency / Medical Help

Firemen: 18

Police: 17 or +33 299 65 00 22

Emergency medical services: 15 or 112

### → Miscellaneous

Tourism Office: +33 299 67 11 11

TAXIS: +33 299 30 79 79

SNCF Train : [www.voyages-sncf.com/](http://www.voyages-sncf.com/) <http://www.gares-en-mouvement.com/>

Airport: +33 299 29 60 00

## SOCIAL PROGRAM

**Tuesday 18:15–19:15 Welcome party on the Campus**

**Wednesday 19:00–20:00 Official reception at the City Hall of Rennes**

**Thursday 19:00–23:00 Conference Dinner**

**Friday 19:00 Closing conference supper party (informally, not further organized)**

- **Welcome party** (Tuesday, 8 February, 18:15 – 19:15) on the Campus near room Rieffel, room 1 and the poster room. During this welcome mixer, you can register.
- **Official Reception** (Wednesday, 9 February, 19:00 – 20:00) at the City Hall of Rennes, the heart of downtown. Address: 1 place de la Mairie.  
After the reception, you can keep on discussing in one of the many restaurants and pubs located downtown.  
Please use public transportation to go to the city hall: subway, bus 4 or bus 53, stop at *République*.
- **Conference Dinner** (Thursday, February 10, 19:00 – 23:00) in the restaurant La taverne de la Marine, 2 place de Bretagne; Please use public transportation: bus 4 stop at *Place de Bretagne* (just in front of the restaurant) or bus 53 stop at *Pont de Bretagne* (a bus or subway ticket is available in your envelope).
- **Closing conference supper party** (Friday, February 11, 19:00). This evening is informally and not further organized by the organizing committee; we can suggest to the participants who would like it to go to the Amiral restaurant.

## INFORMATION FOR SPEAKERS

Please be in the room prior to the session.

Speakers of contributed talks, please note that your talk is scheduled for **17 minutes** plus discussion.

- **Technical details**

All lecture rooms are equipped with a laptop and an LCD projector. All presenters should send a PDF (preferred!) or PPT (Office XP available only) file with their presentation slides to carme2011[at]agrocampus-ouest.fr by 2011-02-01.

## INFORMATION FOR SESSION CHAIRS

Please make sure that each talk (without discussion) is finished after 17 minutes (40 minutes for invited lectures) in order to allow time for discussions and guarantee a smooth realization of the schedule.

## TUTORIALS DAY

On Tuesday, February 8, there are several tutorials held at the conference site in room Moule (11 bis on the Campus map):

**09:30 - 11:00** Sébastien Lê: from one to multiple data tables with **FactoMineR**

**11:00 - 11:30** coffee break

**11:30 - 13:00** Stéphane Dray: multivariate analysis of ecological data with **ade4**

**13:00 - 14:30** lunch break

**14:30 - 16:00** Jan de Leeuw & Patrick Mair: multidimensional scaling using majorization with **smacof**

**16:00 - 16:30** coffee break

**16:30 - 18:00** Oleg Nenadić & Michael Greenacre: correspondence analysis with **ca**

**18:15 – 19:15: Welcome party** on the Campus near room Rieffel, room 1 and the poster room (11 on the Campus map).



# Overview

Time	Wednesday, February 9	Thursday, February 10	Friday, February 11
08:30 - 09:10	Registration	Registration	Registration
09:10 - 09:30	<b>Welcome (Matagrín)</b>	Registration	Registration
09:30 - 10:30	<b>Invited lecture (Matagrín)</b> <u>Volpato Richard</u> : Letting data speak: Enunciative modalities of correspondence analysis <u>Brigitte Le Roux</u> : Birth of CA in Rennes and what's new 40 years later?	<b>Invited lecture (Matagrín)</b> <u>Monica Becue-Bertaut</u> : Textual and lexical statistics <u>Pieter Kroonenberg</u> : Three-mode correspondence analysis: Some history and an ecological example from the sea bed	<b>Invited lecture (Matagrín)</b> <u>Cajo ter Braak</u> : History of canonical correspondence analysis (CCA) in ecology <u>Stephane Dray</u> : Analyzing spatial multivariate structures
10:30 - 11:00	Coffee Break + Poster	Coffee Break + Poster	Coffee Break + Poster
11:00 - 13:00	Rieffel Room 1 Related methods: Applications	Rieffel Room 1 Three-way data MCA-methods in the social sciences	Rieffel Room 1 Modelling Clustering Social space - application
13:00 - 14:30	Lunch Break	Lunch Break	Lunch Break
14:30 - 16:00	<b>Invited lecture (Matagrín)</b> <u>Ludovic Lébart</u> : About the history of multiple correspondence analysis <u>Pierre Cazes</u> : Some comments on correspondence analysis <u>Maurice Roux</u> : Cluster analysis with k-means: what about the details? Speed presentation of posters	<b>Invited lecture (Matagrín)</b> <u>John Gower</u> : Biplots: Taking stock <u>Michael Friendly</u> : Advances in visualizing categorical data	<b>Invited lecture (Matagrín)</b> <u>Jan de Leeuw</u> : History of nonlinear principal component analysis <u>Patrick Groenen</u> : Past, present, and future of multidimensional scaling Poster awards & closing session
16:20 - 17:00	Coffee Break + Poster	Coffee Break + Poster	
17:00 - 18:20	Rieffel Room 1 Related methods: Computation Sensory analysis	Rieffel Room 1 Biplots MFA: Applications Social space - methodology	
19:00	City Hall	19:00 Conference dinner	evening Closing conference supper party (informally, not further organized)



Time		Wednesday 9 February	
08:30 - 09:10		Registration	
09:10 - 09:30		<b>Welcome (Matagrín)</b>	
09:30 - 10:30		<b>Invited Lecture (Matagrín, chair M. Greenacre)</b> <b>Volpato Richard: Letting data speak: The enunciative modalities of correspondence analysis</b> <b>Brigitte Le Roux: Birth of CA in Rennes and what's new 40 years later?</b>	
10:30 - 11:00		Coffee Break + Poster	
		Rieffel	Room 1
11:00 - 13:00		<b>CA &amp; MCA: Theory &amp; algorithms</b> (chair M. Friendly)	<b>Related methods: applications</b> (chair A. Mom)
		<b>Greenacre Michael:</b> <i>Unifying the geometry of simple and multiple correspondence analysis</i>  <b>Choulakian Vartan, De Tibeiro Jules:</b> <i>Graph partitioning by correspondence analysis and taxicab correspondence analysis</i>  <b>D'Ambra Luigi, Beh Eric, Camminatiello Ida:</b> <i>Singly and doubly ordered cumulative correspondence analysis</i>  <b>Josse Julie, Chavent Marie, Liquet Benoît, Husson François:</b> <i>Handling missing values with regularized iterative multiple correspondence analysis</i>  <b>Langovaya Anna, Kuhnt Sonja:</b> <i>Correspondence analysis and moderate outliers</i>  <b>Séguéla Julie, Saporta Gilbert:</b> <i>A comparison between latent semantic analysis and correspondence analysis</i>	<b>Bougeard Stéphanie, Qannari El Mostafa, Fablet Christelle:</b> <i>Multiblock method for categorical variables. Application to air quality in pig farms</i>  <b>Verbanck Marie, Lê Sébastien, Pagès Jérôme:</b> <i>Towards the integration of biological knowledge with canonical correspondence analysis when analyzing Xomic data in an exploratory framework</i>  <b>Le Pouliquen Marc, Csernel Marc:</b> <i>Betweenness relation orientated by Guttman effect in critical edition</i>  <b>Weisz Robert, Karim Jahanvash:</b> <i>Weisz communication styles inventory (WCSI-version 1.0): Development and validation</i>  <b>Stanimir Agnieszka, Grzeskowiak Alicja, Dziechciarz Jozef:</b> <i>Application of correspondence analysis and related methods in evaluation of knowledge and skills of young Peo</i>  <b>Korneliussen Tor:</b> <i>Information sources that EU tourists use: A cross-country study</i>
13:00 - 14:30		Lunch Break	
14:30 - 16:00		<b>Invited Lecture (Matagrín, chair J. Pagès)</b> <b>Ludovic Lebart: About the history of multiple correspondence analysis</b> <b>Pierre Cazes: Some comments on correspondence analysis</b> <b>Maurice Roux: Cluster analysis with k-means: what about the details?</b>	
16:00 - 16:20		Speed presentation of posters	
16:20 - 17:00		Coffee Break + Poster	
		Rieffel	Room 1
17:00 - 18:20		<b>Related methods: computation</b> (chair P. Mair)	<b>Sensory Analysis</b> (chair M. Bécue-Bertaut)
		<b>Dossou-Gbété Simplicie:</b> <i>Analyzing multiple time series using a dynamic latent variables principal component analysis model</i>  <b>Iodice D'Enza Alfonso, Palumbo Francesco:</b> <i>An evolutionary analysis of association patterns</i>  <b>Vehkalanti Kimmo, Sund Reijo:</b> <i>First 50 years of Survo: from a statistical program to an interactive environment for data processing</i>  <b>Morin Annie, Pham Nguyen-Khang:</b> <i>Interactive image mining</i>	<b>Buche Marianne, Cadoret Marine, Lê Sébastien:</b> <i>Projective tests using Napping, the Rorschach test revisited: are the cultural differences between Asians and Caucasians significant?</i>  <b>Cadoret Marine, Lê Sébastien, Pagès Jérôme:</b> <i>Euclidean representations of a set of hierarchies using multiple factor analysis</i>  <b>Qannari Mostafa, Courcoux Philippe, Cariou Véronique:</b> <i>Analysis of sorting data using multiple correspondence analysis and a related method</i>  <b>Worch Thierry, Lê Sébastien, Pagès Jérôme:</b> <i>Validation of ideal profile data using multivariate analysis: The ideal products? Space as a link between the products and their preferences</i>
19:00	City Hall		

Time		Thursday 10 February	
08:45 - 09:00		Registration	
09:00 - 10:30		<b>Invited Lecture</b> (Matagrín, chair L. Lebart) <b>Mónica Bécue-Bertaut:</b> Textual and lexical statistics <b>Pieter Kroonenberg:</b> Three-mode correspondence analysis: Some history and an ecological example from the sea bed	
10:30 - 11:00		Coffee Break + Poster	
		Rieffel	Room 1
11:00 - 12:00		<b>Three-Way Data</b> (chair P. Kroonenberg)	<b>MCA-Methods in the Social Sciences</b> (chair F. Murtagh)
		<b>Bénasséni Jacques, Bennani Dosse Mohammed:</b> The power STATIS-ACT method <b>Cadot Martine, Lelu Alain:</b> Representing interaction in multiway contingency tables: MIDOVA, CA and log-linear model	<b>Le Roux Brigitte, Bienaise Solène:</b> Combinatorial inference in geometric data analysis: typicality test <b>Blasius Jörg:</b> Screening the data for detecting methodological induced variation <b>Souza Augusto, Bastos Ronaldo, Vieira Marcel:</b> Complex sampling designs and multiple correspondence analysis
12:00 - 13:00		<b>Textual data</b> (chair L. D'Ambra)	<b>Zárraga Amaya, Goitisoló Beatriz:</b> Correspondence analysis of surveys with conditioned and multiple response questions <b>Lubbe Sugnet, Silal Sheetal, Niel le Roux:</b> Constructing a socio-economic status index for a non-homogeneous society with distinct sets of variables in multiple correspondence analysis <b>Grannell Andrew, Fitzgerald Tony, Corcoran Paul:</b> Deliberate self harm among Irish adolescents
		<b>Bécue-Bertaut Mónica, Kostov Belchin Adriyanov, Morin Annie:</b> Canonical correspondence analysis for uncovering temporal features in chronological textual data	
		<b>Hornbostel Stefan, Marty Christoph:</b> Excellent news for German universities? A multiple correspondence analysis of media reporting on the excellence initiative <b>Cadoret Marine, Buche Marianne, Lê Sébastien:</b> Confidence ellipses when analyzing simultaneously several contingency tables resulting from free-text descriptions	
13:00 - 14:30		Lunch Break	
14:30 - 16:00		<b>Invited Lecture</b> (Matagrín, chair G. Saporta) <b>John Gower:</b> Biplots: Taking stock <b>Michael Friendly:</b> Advances in visualizing categorical data	
16:00 - 16:30		Coffee Break + Poster	
		Rieffel	Room 1
16:30 - 17:50		<b>Biplots</b> (chair J. Gower)	<b>Social space</b> (chair B. Le Roux)
		<b>De Rooij Mark:</b> The mixed effect trend vector model <b>Graffelman Jan:</b> New pictures for correlation structure <b>Vicente-Villardón Jose Luis:</b> Logistic biplots for binary, nominal and ordinal data <b>Vines Karen:</b> Predictive nonlinear biplots: maps and trajectories	<b>Murtagh Fionn, Ganz Adam, Reddington Joe:</b> Semantics of narrative in collective, distributed problem-solving environments based on correspondence analysis and hierarchical clustering <b>Hjellbrekke Johs., Korsnes Olav:</b> Cultural distinctions: A geometric data analysis <b>Bernard Françoise, Goldfarb Bernard, Pardoux Catherine, Touati Myriam, Summa-Gettler Mireille:</b> Evaluation of seminars by correspondence analysis and related methods <b>Ekelund Bo, Börjesson Mikael:</b> Mapping a citational universe: A GDA of literary dissertation bibliographies
		<b>MFA: Applications</b> (chair S. Bougeard)	
17:50 - 18:30		<b>Morand Elisabeth, Garnier Bénédicte, Bonvalet Catherine:</b> Multiple factor analysis to two-way contingency table to compare residential and geographical trajectories <b>Ganón Elena:</b> Simultaneous analysis of contingency tables drawn with telephone data registration from the national telephone service to support women suffering violence in Uruguay	<b>Mühlichen Andreas:</b> Nominal, ordinal and metric variables in the "social space" ? Using CatPCA to examine lifestyles and regional identities in a medium sized German city <b>Frederiksen Jan Thorhauge:</b> Cross-over methodologies: correspondence analysis as a framework for mixed methods
19:00		Conference dinner	

Time		Friday 11 February	
08:45 - 09:00		Registration	
09:00 - 10:30		<b>Invited Lecture</b> (Matagrín chair D. Causeur) <b>Cajo ter Braak: History of canonical correspondence analysis (CCA) in ecology</b> <b>Stéphane Dray: Analyzing spatial multivariate structures</b>	
10:30 - 11:00		Coffee Break + Poster	
		Rieffel	Room 1
11:00 - 12:00		<b>Modelling</b> (chair J. Bénasséni) <b>Dossou-Gbété Simplicie, Falguerolles Antoine de:</b> <i>The Poisson trick for matched tables: a case for putting the fish in the bowl</i> <b>Lombardo Rosaria, Beh Eric:</b> <i>The aggregate prediction index and non-symmetrical correspondence analysis of aggregate data: The 2x2 table</i> <b>Tenenhaus Michel, Tenenhaus Arthur:</b> <i>Regularized generalized canonical correlation analysis</i>	<b>Social space</b> (chair J. Blasius) <b>Funnell Robert:</b> <i>Urban aboriginal lifestyles in Brisbane: mapping vertical and lateral stratification of opportunity for marginalised groups</i> <b>Rosenlund Lennart:</b> <i>Social and spatial structures in an urban environment</i> <b>Bonnet Philippe, Lebaron Frédéric:</b> <i>Latest methodological breakthroughs in geometric data analysis of cultural practices</i>
12:00 - 13:00		<b>Clustering</b> (chair M. Roux) <b>Fernández-Aguirre Karmele, Garín-Martín María Araceli, Modroño-Herrán Juan Ignacio:</b> <i>Visual displays. Some evidence through artificial and real data</i> <b>Markos Angelos, Menexes George:</b> <i>Hierarchical clustering on special manifolds</i> <b>Tortora Cristina, Palumbo Francesco, Gettler Summa Mireille:</b> <i>CD-clustering</i>	<b>Börjesson Mikael, Melldahl Andreas:</b> <i>The Swedish social space of 1990. Investigating its structure and history</i> <b>Lidegran Ida, Palme Mikael:</b> <i>Out-of-study practices and symbolic capital among Swedish students in higher education</i> <b>Frederiksen Morten:</b> <i>Not so trustful after all? A study of trust, tolerance and solidarity in Denmark</i>
13:00 - 14:30		Lunch Break	
14:30 - 16:00		<b>Invited Lecture</b> (chair A. de Falguerolles) <b>Jan de Leeuw: History of nonlinear principal component analysis</b> <b>Patrick Groenen: Past, present, and future of multidimensional scaling</b>	
16:00 - 16:10		Poster awards & closing session	
evening		Closing conference supper party (informally, not further organized)	

MAP OF CONFERENCE BUILDING / LECTURE ROOMS

