IFCM-2016

THE IV-th INTERNATIONAL FORUM ON COGNITIVE MODELING
(IFCM-2016)

FORUM CONFERENCES:

CML-2016

The XVII-th International scientific Conference
"Cognitive Modeling in Linguistics" (CML-2016)

Lloret de Mar, Spain
11-18 September 2016

CMSCE-2016

The IV-th International scientific Conference
"Cognitive Modeling in Science, Culture, Education" (CMSCE-2016)

Lloret de Mar, Spain
11-18 September 2016

www.confcognresearch.ru

GENERAL INFORMATION

Forum location

The IV-th International forum on cognitive modeling (IFCM-2016) will be hosted in Spain in Lloret de Mar (near Barcelona), 11-18 September 2016.

Forum organizers

- Kazan (Volga Region) Federal University (Russia) (www. kpfu.ru)
- Southern Federal University (Russia) (www.sfedu.ru)
- Institute of Improving Specialists' of Education Qualification (Russia) (www.roipkpro.ru)
- Institute of Linguistics, Russian Academy of Sciences (Russia) (www.iling-ran.ru)
- Moscow State Linguistic University (Russia) (www.linguanet.ru)
- New Bulgarian University (Bulgaria) (www.nbu.bg)
- National and Kapodistrian University of Athens (Greece) (http://en.uoa.gr/the-university.html)
- Sofia University St. Kliment Ohridsky (Bulgaria) (www.uni-sofia.bg)
- The University of Zadar (Croatia) (http://www.unizd.hr)
- ITHEA International Scientific Society and Institute for Information Theories and Applications FOI ITHEA (www.ithea.org)
- Alexandru Ioan Cuza University (Romania) (www.uaic.ro/uaic/bin/view/Main/WebHome)
- Konstantin Preslavski University of Shumen (Bulgaria) (www.shu-bg.net/EN)
- National Research Technological University (MISIS) (Russia) (www.misis.ru)
- Scientific and Educational Center of Linguistics (Russia)
- Vrije Universiteit Brussel (Belgium) (www.etro.vub.ac.be)

Purpose of the forum IFCM: The IV-th International forum on cognitive modeling (IFCM-2016) is held further to the previous 3-d forum, held on September 14-21, 2015 in Bulgaria in Varna and brought together over 70 scientists from 9 countries. As the previous three forums IFCM in cognitive Modeling, the forum contains two joint conferences:

The XVI-th International Conference "Cognitive Modeling in Linguistics"
(CML-2016),
The III rd International Conference "Cognitive Modeling in Science, Culture and Education"
(CMSCE-2016).

History: The conference "Cognitive Modeling in Linguistics" has its history since 1998 when it started as a conference in "Cognitive Modeling" later specified as "Cognitive Modeling in Linguistics" (CML). In 1998 and 2000 the CML conferences were part of the Russian National Conference on Artificial Intelligence (CAI), and later - of the International Congress on Artificial Intelligence (ICAI-2001 and IEEE International Conference "Artificial Intelligence Systems" (IEEE AIS'02), both took place in Divnomorskoe (Russia). The following CML conferences were held in: CMLs from 2003 to 2007 - Bulgaria (Varna and Sofia); CML-2008 - Bechichi, Montenegro; CML-2009 - Constanza, Romania; CML-2010 - Dubrovnik, Croatia; CML-2011 - Corfu, Greece.

In Italy in Milano-Marittima in a new format — as part of the I-st International forum significantly expanded the subject of cognitive modelling to create the XIV-th conference "Cognitive modelling in linguistics. CML-2013" and the I-st International conference "Cognitive modelling in science, culture, education" (CMSCE-2013). This integrated format was successful and constructive.

In the framework of the II-nd forum on cognitive modelling IFCM-2014 in Slovenia on its Adriatic coast from 6 to 13 September 2014 hosted a jubilee XV-th conference "Cognitive modelling in linguistics. CML-2014" and II-nd International scientific conference "Cognitive modelling in science, culture, education"(CMSCE-2014).

The third forum on cognitive modeling IFCM-2015 and its two conferences - XVI-th international scientific conference "Cognitive modelling in linguistics"(CML-2015) and III-rd International scientific conference "Cognitive modelling in science, culture, education"(CMSCE-2015) were held on 14-21 September in Varna in Bulgaria on the black sea coast.

For more detailed information, see the website: www.confcognresearch.ru

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- **Slavova Velina**, Prof., New Bulgarian University, Bulgaria
- **Schalley Andrea**, Ph.D, Griffith University, Brisbane, Australia

Program Committee

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- **Soschen Alona,** Ph.D. (MIT), Emerge Software, Canada
- **Vvedensky Victor**, Dr., National Research Centre «Kurchatov Institute», Russia
- **Wichmann Soeren,** Dr., Leiden University (Netherlands) & Kazan Federal University (Russia)

Language

The official languages are English and Russian.
Translation from/to if necessary is provided during the sessions.

Important Dates

- Application for participation - April 15-25, 2016
- Paper submission deadline - Juny 15, 2016
- Notification of paper acceptance - July 01, 2016
- Program of the Conference – August 1-15, 2016
- Conference dates - September 11- 18, 2016

Conference fee – rental of conference rooms and office equipment, stationery and printing costs, attributes for the conference, coffee breaks, translation during the sessions if needed, publication of the collection, delivery of the collection to the authors and publications for mandatory registry stamped ISBN.

The presentation using Power point is obligatory. All the ppt-files are uploaded to the conference website with the author's agreement.

Participants	With a report	Without a report
Standard (faculty members, researchers)	250 €	125 €
Students and post-graduate students	125 €	60 €
Distance participation	50 €	-

PAPER SUBMISSION FORM

Volume - 8 pages maximum. Papers should be submitted in .doc format - MSWord 2003/2007 or a compatible version for facilitating the printing of the journal.

Details:

• Entire paper - A4 format. Font - Times New Roman. Margins: all - 2.5 cm. Paragraph spacing - 6 pt. Text justification - full.
• Title – UPPERCASE, centered. Font size 14 followed by one blank line.
• Author/authors names - centered, lowercase, font size 12, followed by one blank line. Insert for each author a *footnote* (font size 10) and specify at the bottom of the page: name of institution/place of work, city, country, e-mail).
• Abstract (12-15 lines), font size 12. Languages - English *and* optionally Russian, One blank line.
• ACM Keywords (no more than 4) (http://cran.r-project.org/web/classifications/ACM.html)
• Conference General Topic, followed by conference domain(s), font size 12. Line spacing - single. Languages English or Russian. One blank line.
• Text of the paper/report, font size 12, justified. Divide the text into sections (2 to 5). Titles of the sections in Uppercase, centered.
• Approximate structure of the paper: INTRODUCTION (relevance, aim, originality of the approach, methods used). SUBTITLE *for each* section (they may include: basic approaches, general scheme or basic model, structure of its application, practical application of ideas

developed, principal technologies, methods of model application, results. SUMMARY/CONCLUSIONS.

• Figures are included in the text, obligatory figure numbers and figure titles, centred, Times New Roman 10. Figure quotation in the text, for example: "As shown in Figure 1., ...".

• Figures, pictures, photographs and other kinds of visual support should be included in the document by using MSWord in order to provide the possibility to be resized by the editor.

• It is recommended to use italics for all terms that are not commonly used and specific for a developed model or theory.

• References quotation - in square brackets if numbered [4] or following the standard, for example (Barsalou et al., 2003) as shown on https://www.library.cornell.edu/research/citation/apa

• List/links of references - at the end of the text in alphabetical order. Font size 10 following the international standard: https://www.library.cornell.edu/research/citation/apa (recommended), they may be numbered (numbers used as reference in the text).

REFERENCES (EXAMPLE)

Barsalou, L. W., Simmons, W. K., Barbey, A. K., & Wilson, C. D. (2003). Grounding conceptual knowledge in modality-specific systems. *Trends in cognitive sciences*, 7(2), 84-91.

Deubel, P. (2003). An Investigation of Behaviorist and Cognitive Approaches to Instructional Multimedia Design. *Journal of Educational Multimedia and Hypermedia 12*(1), 63-90. [Online]. Available: http://dl.aace.org/12691

A complete reference list must be given for all sources mentioned in the text. It is recommended to give the page numbers of books. If the source can be found at WWW, use "[online] Available: http://xxxxxx ...»

At the end of paper leave two blank lines and give a paper title in both languages – English and Russian (for "Table of Content").

Submit the files named with author/authors, for example: **ivanov.doc** or **ivanov_petrov.doc**.

To the Organizing Committee:

msi7@mail.ru

Criteria for paper evaluation:

1. Professional level
2. Innovative level
3. Theoretical bases
4. Clearness of task formulating
5. Empirical basis
6. Existence of concrete result
7. Clearness of result
8. Clearness of conclusions
9. Relevance for cognitive paradigm
10. Interdisciplinary approach
11. Interdisciplinary importance
12. General quality of presentation (style, language, logic etc.)

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Website of the joint forum: www.confcognresearch.ru

More about the location and the accommodation

Lloret de Mar

Lloret de Mar is a popular, modern, with well-developed infrastructure, hospitable city; one of the most important and famous tourist resorts in the South of Europe and one of the best developed resorts in Spain. It is located in the Northern part of the Iberian Peninsula in Catalonia, on the famous Costa Brava, 75 km from Barcelona, 30 km from Girona and 100 km to the South of France.

Lloret de Mar is protected from winds by a chain of mountains from the North, making the climate of the resort mild.

So the holiday season is quite long. Wide comfortable city beaches of Lloret de Mar, crystal clear water and golden sand make this resort one of the best vacation spots on the Costa Brava.

Out of its 5 main beaches with a total coastline of 7 km, 4 are marked with "Blue flag", the most important of them are the "Lloret" (the length of 1630 m), "Fenals" (length 700 m), etc. Coarse sand is similar to pebbles that does not annoy vacationers and is easily shaken off.

Resort beaches are separated by rocky outcrops. From the brows there are scenic views of the surrounding city and the bay with clean water of the Mediterranean sea. You can easily combine first-class beach holidays in Lloret de Mar and sightseeing in Barcelona.

The capital of Catalonia, of course, also has its beaches, but still it cannot be called a full-fledged seaside resort.

Warning! Swimmers need to be careful - it is forbidden to swim far out of buoys, because the shallow coastal waters and sea bottom in some places are dramatically moving
into a sharp break at a depth of 10 m or even up to a kilometer. Therefore, those who can't swim very well, better to stay very close to the shore. You should not swim beyond 50 m from the coast –

there are strong currents, safety swimming area is quite big.

Lloret de Mar is an ancient city and has more than a thousand-year history. According to the archaeological researches, this territory was originally inhabited by Iberian tribes, the first settlers who arrived in the period of the lower Paleolithic. In the I century BC they were replaced by the Romans, who created a thriving village and established trade relations with neighboring Empuries and Barcelona. As a city, Lloret de Mar was first mentioned in connection with 966 and under the name of Loredo (lat. Lauretum) — "the place where Laurel trees grow", according to one version. In the middle ages the population of Lloret is actively engaged in trading and establishes trade relations in the entire Mediterranean. Trade and cultural ties are being developed. The link with Italy is reflected in connection with places, dialects, religious traditions. After the discovery of America, due to the recovery of transatlantic sailings, strong free trade and business relations between Spain and its colonies across the Atlantic (Caribbean, Argentina) in the 18th and 19th centuries, Lloret de Mar began to develop as a shipbuilding center; it was its new round of development and prosperity. Gradually Lloret transformed into an elegant European city with beautiful streets and squares. After a brief period of economic stagnation a new stage of development of Lloret De Mar began in the mid 20th century, which was due to the development of tourism. Tourism is the main area that brings profit to the modern city.

The city is a cultural and tourist center. It can boast of a large number of historical sites at nearly every headland; interesting architectural places of different time periods are worthy of attention. On the Costa Brava there are a lot of medieval monuments — the Castle of Sant Joan V. 11 (the residence of Narcisse Scaffold - an industrialist of Girona), the medieval Gothic Church of Sant Roma in the centre of town. On one of its headlands there is a bronze statue of the "fisherman's wife" by touching her feet and looking out to the sea, you can see ways to achieve your desires. Natural splendor becomes one with its well-developed infrastructure and hospitality of the local population. The city is constantly developing and improving its parks, actively developing tourism. The whole life of the city is concentrated at the sea. A variety of hotels of different comfort level, restaurants and cafes, nightlife options are located close to the beachline. Lovers of active recreation will find numerous sports clubs. Rent of water motorcycles, skis, bicycles, automobiles is available almost everywhere. lovers of nature and relaxing strolls are invited to the Botanical gardens of St. Clotilde in Renaissance style on the cliff top with spectacular panoramic views. One of the most popular attractions with tourists is bullfighting and the water park Water World which is the largest on the coast. Close to Central promenade and the city hall there is the Museum of cats. You can spend your time unusually and interestingly in the Park of dwarfs, which is situated at the entrance of the city of Blanes. The centuries-old traditions of the resort are colourful fiestas and festivals held in Lloret de Mar throughout the year.

The city has a well developed transport infrastructure. Tour buses and free Shuttle buses run around the city. With Bus Terminal there are buses to different towns – Girona, Barcelona, Tossa de Mar, Blanes. Every day there are trips to Figaro with its Salvador Dali Museum, as well as various excursions to Barcelona where you can also get yourself on a regular bus. In Barcelona you can see its main attractions - the famous Cathedral Sagrada Familia, Park Guell and other buildings of Gaudi, in the evening - awesome fountains with spectacular lighting. From the promenade of Lloret you can have sightseeing and pleasure boats to Tossa de Mar and Blanes, as well as tour buses to the medieval towns of Rupit and Besalu.

The participants of the forum will be provided with accommodation services at the hotel "Marsol Hotel 4*" (see photo).

The hotel "Marsol Hotel 4*" -is one of the best-rated hotels in the resort. It is located 50 m from the resort centre, 50 m from the bus stop.

Room facilities: TV (satellite TV with Russian channels), central air-conditioning, telephone, bathroom (with a bath) and a toilet.

Hotel facilities: elevators, 2 swimming pools. Free services — fitness centre, sauna, solarium. Paid services — massage, Wi-Fi, parking, beach umbrellas and sunbeds. All rooms are non-smoking. Between the hotel and the beach there is a road and promenade.

Check-in: at 14:00.

Check-out: until 12:00. The hotel is located 15 kilometres from Varna Airport and 2 kilometres from the railway station..

Airports: Barcelona.

Visa: Schengen.

CML-2016

The XVII-th International scientific Conference
"Cognitive Modeling in Linguistics" (CML-2016)

Lloret de Mar, Spain
11-18 September 2016

The conference program CML-2016 includes plenary sessions; sections sessions; a workshop, organized by the Institute of Psychology of Russian Academy of Science; round table discussion with current trends in cognitive science, memorable round table discussion.

The purpose of the conference CML-2016 is to integrate the work of specialists in cognitive science, cognitive linguistics, semiotics, psycholinguistics, text and speech technologies etc.

The results of the conference CML-2016 is expected to contribute to the investigation of language seen as integrated with human cognition.

Topics of interest CML– 2016

General topics
- *Philosophy of language and mind*
- *Cognitive Models of Language Phenomena*
- *Formal Models in Language and Cognition*
- *Cognitive - Oriented Computer Applications and Linguistic Resources*
- *Language and emotions*

These general topics can include studies and models in the following Domains
Models and Studies in
- *Speech Perception and Production*
- *Emotions and language, emotions and computer interface*
- *Sentiment analyses*
- *Psycholinguistics and Psychosemantics*
- *Semiotics, Semantics and Pragmatics*
- *Language Processing, Memory and Thought*
- *Child Speech and Language Acquisition*
- *Translation and Cognition*
- *Speech Impairments*
- *Language Disorders*
- *Cognitive Aspects of Theology*
- *Cognitive Aspects of Information Technologies Development and Using*
- *Cognitive Approaches in the Development of Information Technologies*

Cognitive Linguistics
- *Metaphor Theory*
- *Mental Lexicon and Lexicon Ontology*
- *Naive World Image and Verbal Form*
- *Knowledge Conceptualisation and Verbalisation*
- *Cognitive Mechanisms for Text Processing*
- *Cognitive Models in Language Learning*
- *Species-Specificity of Human Language*
- *Representation of the World and Verbal Form*
- *Speech and Language Acquisition in childhood*

- Typology of Languages, Genesis and Development

CMSCE-2016

The IV-th International scientific Conference
"Cognitive Modeling in Science, Culture, Education" (CMSCE-2016)

Lloret de Mar, Spain
11-18 September 2016

Aims and Scope

The Program of the conference CMSCE-2016 includes a plenary and section sessions, Workshop on Cognitive Psychology of Education (organized by Southern Federal University); other Discussion Tables devoted to modern trends in Cognitive Science.

The aim of the conference CMSCE-2016 is to integrate the work of specialists in cognitive science, epistemology, cognitive psychology, philosophy of science, cognitive culturology, anthropology, cognitive pedagogic, learning theory, neural network theory, knowledge engineering etc.

The results of the conference CML-2016, as expected, will promote expansion of possibilities of interdisciplinary researches of cognitive Modelling of processes and technologies of receiving, transfer, processing, storage, transformation of information on the world and the person in various fields of activity of the cognizing subject.

Topics of interest CMSCE-2016

1. **Methodology**
   1.1. General Problems of Cognitive Science
   1.2. Schematization, Konstructioning and Modelling
   1.3. Consciousness Modelling
   1.4. Cognition in Modelling
   1.5. Cognitive Modelling of Activity and Behavior
   1.6. Decision Making

2. **Sciences about the World and the Person**
   2.1. World Picture and World Image
   2.2. Cognitive Processes
   2.3. Irrational and Rational in Cognition
   2.4. Cognitive Styles and Style of Thinking
   2.5. Emotions and Knowledge
   2.6. Cognitive Psychophysiology
   2.7. Cognitive Problems of Economics and Management

3. Culture
   3.1. Culture and Cognitive Processes
   3.2. Cognitive and Cognitive-LinguisticForms of Culture
   3.3. Cognitive Basis of Creative Activity
   3.4. Cognitive aspects of creativity (music, chess, art, etc.)
   3.5. Sports and Cognitive Modelling

4. Education
   4.1. Cognitive-Information Paradigm in Education
   4.2. Educational Technologies and Cognitive Modelling
   4.3. Cognizing Subject and Activity Subject
   4.4. Educational Environment

REGISTRATION FORM

**(LLORET DE MAR, SPAIN
11-18 SEPTEMBER 2016)**

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	CML-2016
Title of the paper	
Scientific topic	
	CMSCE-2016
Title of the paper	
Scientific topic	

**We hope for fruitful cooperation!
Sincerely.**

IFCM-2016 Organizing Committee