

TE2018

The 25th International Conference on Transdisciplinary Engineering

TRANSDISCIPLINARY ENGINEERING METHODS
FOR SOCIAL INNOVATION OF INDUSTRY 4.0

3-6 2018 July · MODENA · Italy



**CONFERENCE PROGRAMME
AND GENERAL INFORMATION**

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Welcome

Welcome to the 25th International Conference on Transdisciplinary Engineering (TE2018)

3-6 2018 July · Modena · Italy

The 25th International Conference on Transdisciplinary Engineering (TE2018) is an international forum to disseminate the most recent and relevant research, theories and practices on the new frontiers of engineering, evolving the paradigm of Concurrent Engineering and Collaborative Engineering.

TE2018 conference will take place in Modena (Italy), from July 3 to 6, 2018. Modena is located into the Emilia region, which is famous for Advanced Manufacturing, Automotive and Food industries. In particular, Modena is the beating heart of the “Motor Valley” (which includes companies like Ferrari, Lamborghini, Maserati, CHN Industrial, Ducati, Pagani).

The conference will link researchers and practitioners from industry and academia specialising in design and engineering disciplines from around the world. On July 2, a set of pre-conference interactive workshops will bring together students, researchers, professors and experts discussing crucial topics of Transdisciplinary Engineering. After the conference, on July 6, technical tour and industrial visit will make conference delegates know more about local initiatives, joint research between industry and University, and the most promising industrial innovations.

Why Transdisciplinary Engineering?

Transdisciplinary Engineering is an emerging field that extends and evolves the initial basic concepts known as Concurrent Engineering (CE). CE has matured and has become the foundations of many new ideas, methodologies, initiatives, approaches and tools. Generally, CE concentrates on enterprise collaboration and its many different elements; from integrating people and processes to very specific complete multi/inter/trans-disciplinary solutions, taking the user into account. Current research on CE is driven by many factors like increased customer demands, globalization, (international) collaboration and environmental strategies. The successful application of CE in the past opens also the perspective for future applications like overcoming natural catastrophes, sustainable mobility concepts with electrical vehicles, and intensive, integrated, data processing, with an increasing importance of Transdisciplinarity. User and application environments are more and more included into design and development to customize new products and implement solutions that are really needed and wanted. Research incorporates then also social science methodologies to acquire the necessary knowledge about users and context and to better implement solutions in their context. Engineering needs these approaches to be more successful with their innovation efforts.

Transdisciplinarity is characterising modern research areas, in which natural sciences are integrated with social sciences, requiring mixed methodologies for achieving the work. It is expected to be a significant basis for future evolution, especially in all Engineering areas.

Welcome!

Prof.ing. **Margherita Peruzzini**
General Conference Chair



Prof.ing. **Marcello Pellicciari**
Conference Co-chair



Organization

CONFERENCE CHAIR

Margherita Peruzzini, University of Modena and Reggio Emilia (IT)

CONFERENCE CO-CHAIR

Marcello Pellicciari, University of Modena and Reggio Emilia (IT)

PROGRAM CO-CHAIRS

Josip Stjepandic, PROSTEP AG (DE)

Nel Wognum, Delft University of Technology (NL)

Cees Bil, Royal Melbourne Institute of Technology (AU)

SCIENTIFIC COMMITTEE

Ronald Beckett, Deakin University (AU)

Giovanni Berselli, University of Genoa (IT)

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Chun-Hsien Chen, Nanyang Technological University (SG)

Shuo-Yan Chou, National Taiwan University of Science and Technology (TW)

Richard Curran, TU Delft (NL)

Eugenio Dragoni, University of Modena and Reggio Emilia (IT)

Fredrik Elgh, Jönköping University (SE)

Francesco Ferrise, Polytechnic of Milan (IT)

Shuichi Fukuda, Keio University (JP)

Michele Germani, Polytechnic University of Marche (IT)

Parisa Ghodous, University of Lion (FR)

Maura Mengoni, Polytechnic University of Marche (IT)

John Mo, RMIT University (AU)

Pedro Neto, University of Coimbra (PT)

Jerzy Pokojnski, Warsaw University of Technology (PL)

David Romero, Tecnológico de Monterrey (MX)

Keiichi Sato, Illinois Institute of Technology (US), Tromso University (NO)

Essam Shehab, Cranfield University (GB)

Marco Taisch, Politecnico di Milano (IT)

Amy Trappey, National Tsing Hua University (TW)

Wim Verhagen, TU Delft (NL)

Stefan Weisner, BIBA University of Bremen (DE)

Li Da Xu, Old Dominion University (US)

TE History

Transdisciplinary Engineering is a methodological approach of engineering processes. In Concurrent Engineering the emphasis has been on engineering with the parallel execution of upstream and downstream processes, including involvement of end users and user communities. Transdisciplinary Engineering (TE), on the other hand, is a methodological approach, explicitly incorporating social sciences to gather information and to guide implementation of engineering solutions in practice. Examples of relevant methodologies are case studies, surveys and action research. TE combines as such natural sciences with social sciences. Openness between disciplines is a prerequisite to make TE a success. TE merges natural sciences, applied sciences, social sciences and humanities to achieve a higher level of comprehension and awareness of the context where industrial products, processes, systems or services are experienced by users. Any engineering achievement should be embedded in a business model or business case to understand its value and validity.

New directions, like Cyber-Physical Systems (CPS), Internet of Things (IoT), human-centered design, etc. are part of TE, when design and development are coupled with the human, organizational or society side of them.

The list of previous TE conferences, by year and location are as follows:

2017: Singapore, Singapore
2016: Curitiba, Brazil
2015: Delft, The Netherlands
2014: Beijing, China
2013: Melbourne, Australia
2012: Trier, Germany
2011: Boston, USA
2010: Cracow, Poland
2009: Taipei, Taiwan
2008: Belfast, UK
2007: São José dos Campos, Brazil
2006: Antibes-Juan les Pins, France
2005: Dallas, USA
2004: Beijing, China
2003: Madeira, Portugal
2002: Cranfield, UK
2001: Anaheim, USA
2000: Lyon, France
1999: Bath, UK
1998: Tokyo, Japan
1997: Rochester, USA
1996: Toronto, Canada
1995: McLean, USA
1994: Pittsburgh, USA

General Programme

| MONDAY JULY 2 | TUESDAY JULY 3 | WEDNESDAY, JULY 4 | THURSDAY JULY 5 | FRIDAY JULY 6 |
|---|---|---|--|-------------------------------|
| 02.30 - 05.30 (pm) Conference Workshops | 9.00 - 10.00 (am) Registration & Welcome Coffee | 9.00 (am) Registration & Welcome Coffee | 9.00 (am) Registration & Welcome Coffee | morning Industrial Tour |
| 06.30 - 08.00 (pm) Welcome Reception | 10.00 - 10.40 (am) Opening Ceremony | 9.00 - 10.20 (am) Parallel Session 4 | 9.00 - 10.20 (am) Parallel Session 8 | afternoon Technical Visits |
| | 10.40 - 11.40 (am) Keynote 1 | 10.20 - 11.20 (am) Keynote 3 | 10.20 - 11.20 (am) Keynote 5 | |
| | 10.40(AM)-1.00(pm) Parallel Session 1 | 11.20 - 11.40 (am) Coffee break | 11.20 - 11.40 (am) Coffee break | |
| | 1.00 - 2.00 (pm) Lunch Break | 11.40(AM)-1.00(pm) Parallel Session 5 | 11.40(am)-1.00(pm) Parallel Session 9 | |
| | 2.00 - 3.20 (pm) Parallel Session 2 | 1.00 - 2.00 (pm) Lunch break | 1.00 - 2.00 (pm) Lunch break | |
| | 3.20 - 4.20 (pm) Keynote 2 | 2.00 - 3.20 (pm) Parallel Session 6 | 2.00 - 3.20 (pm) Parallel Session 10 | |
| | 4.20 - 4.40 (pm) Coffee break | 3.20 - 4.20 (pm) Keynote 4 | 3.20 - 4.20 (pm) Annual General Meeting (AGM) | |
| | 4.40 - 6.00 (pm) Parallel Session 3 | 4.20 - 4.40 (pm) Coffee break | 4.20 - 4.50 (pm) Closing Ceremony & Award Ceremony | |
| | 6.30 (pm) Show Cooking | 4.40 - 6.00 (pm) Parallel Session 7 | 7.00 - 11.00 (pm) Gala Dinner | |



Scientific Programme



Scientific Programme

How to get the updated Scientific Programme

1) Type “Conference 4me” in Google Play Store/ Windows Phone Store/ iTunes App Store or scan the code below



- 2) Install the app
- 3) Choose your conference: “TE2018”
- 4) Get the Program on your smart phone or laptop!



Events



Events

Welcome reception @ Complesso San Geminiano

July 2, 2018 · 6.30 (pm)

Included in the FULL & STUDENT REGISTRATION FEE

The Welcome Reception will take place at the wonderful Complesso San Geminiano (conference venue) on the Modena downtown.

This convent was originally built as a hospital in 1348, the year in which the plague was at its peak. It continued as a hospital until the middle of the following century. In 1348 the facility was transformed into a convent for the San Geminiano nuns. In 1586 the convent was adorned with two bell towers. In 1798, when the monastic order was suppressed, the convent was permanently closed and the buildings were used for a wide variety of activities: the city bakery was located here as well as the Amateur Theatre.

Nowadays it's the siege of the University of Modena and Reggio Emilia, Faculty of Law. Still today one can admire the lovely XV century cloisters adorned by a double series of arches.

In ancient times used as a hospital and then by the nuns of San Geminiano from 1448 and 1798, on entering the old monastery, there is a wonderful Renaissance Cloister. Here, the columns are original like the capitals; the bell tower of the old church was built in 1586.

Now completely restored, the edifice is the splendid seat of the Law Faculty.

Complesso San Geminiano, via San Geminiano 3 (Modena city center, walking distance from all hotels in the downtown). It is located in the Historic Center where traffic is limited. From Largo S. Agostino go all the way down Via Emilia until you reach the Corso Duomo intersection. Take the right and then turn left into Via Dei Servi. Go down this street to Via Canalino. Turn right and go down this street until you reach the portico where, on the right, you find Via San Geminiano.



photo by Augusto D'Antonio

Events

Show Cooking

July 3, 2018 - 6.30 (pm) - Via S. Geminiano, 3, Modena

The Social Event on July 3 will be a Show Cooking with one of the most famous chefs in Modena, Luca Marchini.

Originally from Arezzo, Luca Marchini moved to Modena at age seventeen, where he absorbed the strong gastronomic and cultural identity of the city. This identity still inspires him today, as a constant stimulus in the creation of different narratives of taste, which seek to reinterpret the ingredients in an individual mode. His first restaurant “L’Erba del Re” was born in 2003 - not just as a restaurant, but rather a laboratory in which to experiment with the many ‘concepts of food’ and to express the essence of culinary art: balance, delicacy, respect, and enhancement of the raw materials. Numerous awards followed from La Guida dell’Espresso and Gambero Rosso, and in 2008 the restaurant obtained a Michelin star.



In 2004, chef Luca Marchini opened the Catering Division of L’Erba del Re. He also runs the Scuola di Cucina Amaltea, a cooking school designed for amateurs and corporate team building projects. He has dedicated a new restaurant activity to the local, Modenese tradition by opening the “Trattoria Pomposa - al



Re Gras". Since March 2016, he has been the executive chef of the "Pavarotti Restaurant Museum" located in the famous Vittorio Emanuele gallery, right in Piazza Duomo. He is the President of the JRE Jeunes Restaurateur - Italia and a member of the Associazione Nazionale Le Soste.

SHOW COOKING: a food experience made of balance between flavours

"Balance, this is the concept on which my kitchen is based. Each element of a dish has a recognizable identity, a strong relationship with the other ingredients. The intention is that with each "bite" the variety of flavours are perceived by the palate in a harmonious and balanced way.

Perseverance in research and practice, without hesitation. An obtainable goal doesn't really exist, but rather a continuous awareness of artistic and technical development, with a glimpse into the past and an eye to the future.

The attention that I give every day to my restaurant L'Erba del Re is the same that I dedicate to all external events ... the same quality of food and service, with a personal, creative approach for each, different occasion. The organizational model comes from the ability to listen and communicate with the customer, create for the client and with the client, an event that accentuates his or her signature. Dialogue, creativity, emotion... these elements must always be present to give the guest the opportunity to express their own character, through the event, and for us to receive the strongest stimulus to continually improve"

– Chef Luca Marchini

Gala Dinner

July 5, 2018 - 7.00 (pm) - Largo Porta S. Agostino 337

Included in the FULL & STUDENT REGISTRATION FEE, extra-tickets for accompanying people can be bought on the conference registration system (80 euro)

The Gala Dinner will take place at the Palazzo dei Musei (Museum Palace), which was built in 1764 by the order of Duke Francesco III d'Este. He wanted to reunite the religious foundations of the city of Modena in Piazza Sant'Agostino into a "Grande Albergo dei Poveri" (Hostel for the poor) in which to welcome them. This operation was understood in a more general policy of social reform and renewal to cope with the numerous problems of public order and rehabilitation of the city, as already happened in 1753 with the construction of the Great Hospital facing the same square.

The first nucleus of the "Albergo dei Poveri", designed by the Modenese architect Pietro Termanini, was created in the liberated spaces of the Arsenale Estense, followed by those of the Convent of the Augustinians and the adjoining church. The aims of the new construction, which ended in 1771, were both assistance and education, providing for the sustenance of the dispossessed and their employment. In 1788

Events



the Duke Ercole III d'Este, successor to Francesco III, transformed the "Grande Albergo" into "Albergo delle Arti" (Hostel of Arts). Over the years the building experienced seasons of changes and transformations: from the suspension of subsidies to the indigents who worked there following the arrival of the Napoleonic troops, to the place of military residence of Este officers, then to the seat of the Provincial Hospitality.



After the Unification of Italy, the desire to bring together the various cultural and conservative institutes of the city within the Hotel of Arts led to the signing of the first stipulation (1868 in Florence) between the Italian Government and Archduke Francis V d'Este to put the Este Museum in it, so as to sell the Palazzo Ducale to the Military School. In 1881 the building was then purchased by the City of Modena, which placed the Civic Library of Art Poletti, the Municipal Archive and the Civic Museum.

The Gala Dinner will be organized within the Museum, in one of the marvellous inner gardens. A lot of delicious good food and entertainment events will make you enjoy the event!

How to get there?

Palazzo dei Musei is located in Largo Porta S. Agostino 337 (at the boundary of the Modena city center, walking distance from all hotels in the downtown and the conference venue). Car parking is available close to the Palace, by paying the ticket.

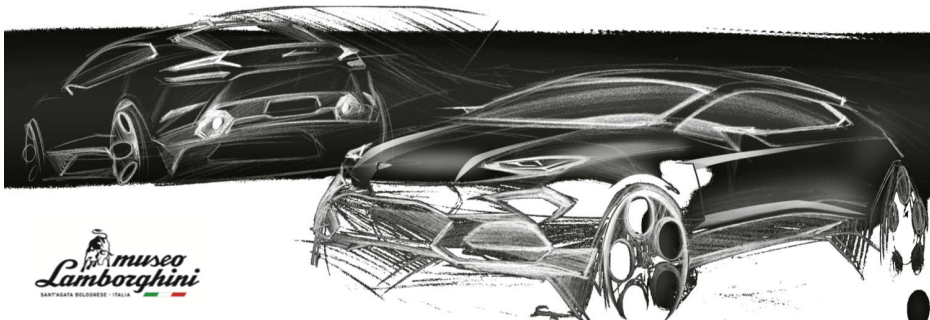
LAMBORGHINI museum & factory tour

July, 6 - morning

7.40 am - Departure from Largo Garibaldi 15 (in front of the Storchi Theatre).

Included in the FULL & STUDENT REGISTRATION FEE, extra-tickets for accompanying people can be bought on the conference registration system (50 euro)

The visit at Lamborghini is more than a tour; it is a living experience among cars and technology. Cars ranges from the early successes (350 GT and Miura), to the key models from then to now, until the racing



cars, including Formula 1. Technology embraces the main stages of product development (4x4, aluminium, carbon fibre), the Lamborghini engines, and the invention of the SUV and the next URUS. The visit includes also the tour of the production lines: an experience among skilful craftsmanship and advanced technology, from the step-by-step assembly, the sophisticated chassis and the carbon fibre bodywork, the powerful engine, gearbox, transmission, suspension and brakes, until the luxury interiors.

www.lamborghini.com

FASiM - Formazione Avanzata e Simulazione Medica (Advanced Training and Medical Simulation)

July, 6 - late morning

FASiM – Formazione Avanzata e Simulazione Medica (Advanced Training and Medical Simulation)

FASiM is an avant-garde Lab for the preparation of future doctors and professionals working in the field of Medicine and Health Professions.

It adopts active and student-centered training methodologies thanks to simulators, mannequins and trainers, to acquire numerous skills necessary for health professions safely. The advanced simulation allows to recreate realistic clinical scenarios, even complex skills, such as facing emergencies and working in interdisciplinary and inter-professional groups. These teaching methods therefore contribute to safeguarding patients, guaranteeing them reliable and safe treatment and reducing the clinical risk. The Lab also has a wide range of instruments, including an advanced adult simulator mannequin, an advanced ultrasound simulator mannequin, and numerous low fidelity and skill trainer mannequins.

July 6, afternoon



Visits at LABS:

1. ViPLab - Virtual Prototyping Lab

ViPLab focuses on Human-Centered Design and Simulation for Industry 4.0, thanks to the use of Virtual Reality technologies and Human simulation - Human monitoring tools. Research at ViPLab is focused on putting HUMANS at the centre of the design process and facilitating the adoption of DfX methods. The Lab offers an immersive 3D experience for viewing complex systems and simulating their behaviour within an interactive virtual environment, promoting collaborative approaches. The main applications are: High-quality aesthetic rendering with high level of realism and immersion, Advanced animations to optimize product-process behaviours, Usability analysis according experimental evaluation protocols, Analysis of physical and cognitive ergonomics, Motion tracking and post-processing of user actions, Virtual assembly / disassembly / maintenance, Virtual training, Simulation of the production line and optimization of tasks, layout, and flows, Simulation of human-robot collaborative tasks.

2. AlmageLab

Research at AlmageLab covers topics of Computer Vision, Pattern Recognition & Machine Learning, Artificial Intelligence, and Multimedia applied to optical images and videos as well as data from different sensors. Among the others, the main application fields are Vision for Automotive, Video surveillance, Machine vision and robot vision, Medical imaging, Human-centered Multimedia, Content-based retrieval, People detection and tracking, Human behaviour understanding.

3. MilleChili Lab

MilleChili is a Academic Lab working in the field of the automotive chassis design, optimization and innovation. It was founded in 2009 by the machine design group of DIEF (Dep. of Engineering “Enzo Ferrari”) and Ferrari S.p.A. with the objective of effectively transferring and linking the technology and know-how from the world of research to the world of industry. It represents a cross-project in which students are working on light-weight car design. The Millechili vision is based on the principle that there is no innovation without research. During the years, a competent and dynamic working group has been developed and has succeeded in gaining the trust of many important companies in the automotive field and in the advanced mechanics. Millechili Lab has considerable longstanding and recognised expertise in the understanding and modelling of structures and mechanical components by advanced numerical and experimental techniques. Specific areas of interest are: Materials characterization and FE correlation,

Composite materials, Crash simulation, Structural and parametric design optimization, Validation testing and failure analysis.

4. Vibration and Powertrain Lab

The main topics of research are referred to mechanics area, from modelling of mechanical transmissions, to finite elements analysis (deformation, stress, evaluation of the transmission error) until dynamic models and optimization. The scientific research is about shell structures, gear modelling, perturbation methods, moving loads, dynamic absorbers, including the definition of setups for vibration measurements on spur gear pairs and setups for stress analysis and endurance tests on medium power gear boxes, and development of software for gear analysis. It also offers services for modal analysis, typical modal testing and dynamic testing.

5. OPTOLab

Led by the Prof. Rovati, the Optolab Laboratory (Laboratory of Optoelectronics) is focused on measurement science and in particular it is focused on the development of measurement methods and measuring systems for biomedical and industrial applications.

The laboratory has decades of experience on the design and validation of electronic and optoelectronic measuring systems ranging from optical techniques such as interferometry, fluorescence spectroscopy, absorption spectroscopy and, dynamic light scattering to electric and electrochemical techniques such as impedentiometry and voltammeter.

UNIMORE has a longstanding tradition (it was founded in 1175) and is considered one of the best universities in Italy for teaching and research. It is ranked 2nd among public universities according to Italy's leading financial daily, and among the top 8 medium-sized Italian universities by the Times Higher Education Ranking 2011-2012. UNIMORE, which has just over 19,000 students including 3,500 postgraduates, is large enough to offer all the facilities one would expect from a major university (well-stocked libraries, computer rooms, free internet connection and study support services) but small enough to retain a personal and friendly learning environment. UNIMORE is composed of 14 Departments, offering a wide range of degree programmes at undergraduate level, right up to doctoral studies in most disciplinary areas, from the humanities and social sciences to engineering and technology, and from physical and natural sciences to medicine and life sciences.

The Department of Engineering "Enzo Ferrari" was founded in 1990. It is located in the heart of one of Europe's wealthiest and most dynamic regions, which is world-renowned for its production of mechanical parts, engines, sports cars (e.g. Ferrari, Lamborghini, Pagani, Maserati, etc.) as well as for its agro-food sector, ceramic tiles and manufacturing industries. Its main building, which covers more than 160,000 sqm, meets the highest teaching and research requirements. The Department regularly cooperates with renowned firms in the car manufacturing, chemical, mechanical, ceramics and biomedical fields, as well as enterprises in the sectors of information technology, telecommunications and industrial electronics. The Department has benefited from this productive network, and over the years it has improved and has further developed the high quality level of its research and technological application. Its graduates can easily find employment, thanks to the training opportunities offered (apprenticeships and work place-

ments). These experiences offer students the chance of further developing the knowledge acquired during the academic program and of taking a closer look at the job market.

The Department has recently launched also a new international course about automotive engineering, taking part to the Motorvehicle University of Emilia-Romagna (MUNER). This is an association which was strongly advocated by the Emilia-Romagna Region, and it was created thanks to a synergetic connection among universities that are synonymous with advanced training – University of Bologna, University of Ferrara, University of Modena and Reggio Emilia and University of Parma - and the automakers that represent the excellence of Made in Italy in the world and are historically rooted in this territory: Automobili Lamborghini, Dallara, Ducati, Ferrari, Haas F1 Team, HPE Coxa, Magneti Marelli, Maserati e Toro Rosso. Two international and inter-university master's degree programs, taught entirely in English, will start from the next academic year, 2017/2018: Advanced Automotive Engineering and Advanced Automotive Electronic Engineering. The Motorvehicle University of Emilia-Romagna hub aims at attracting to the region the best university students from all over the world, with the goal of training and introducing into the corporate world tomorrow's engineers, the professionals who will design street and competition vehicles, sustainable propulsion systems and subsystems for smart features, and production plants in keeping with Smart Manufacturing.

The visits will make you enter in some of the most advanced Labs where academic and industrial researchers as well as PhD students work together to develop outstanding research on the most significant topics in automotive and mechanical engineering.



Practical Information



Wi-Fi

Instructions to attendees of TE 2018 - International Conference on Transdisciplinary Engineering

Join wi-fi network (SSID) UNIMORE.

A login page pops-up.

Follow the link in the image.

Fill the personal information asked in the form. Please double check your mobile telephone number as the password will be texted there.

The code for TE 2018 - International Conference on Transdisciplinary Engineering is: htxxv.

After registration, allow 5 minutes for a text message with your password to reach you. Your username is the mobile telephone number.

Return to login page and use the credentials you received.

Istruzioni per i partecipanti a TE 2018 - International Conference on Transdisciplinary Engineering

Connettiti al segnale (SSID) UNIMORE.

Appare una finestra di login.

Segui il link nell'immagine.

Compila il modulo con le informazioni personali richieste. Per favore, controlla il numero di telefono cellulare perché la password sarà inviata a quel numero come SMS.

Il codice per TE 2018 - International Conference on Transdisciplinary Engineering è: htxxv.

Dopo la registrazione potrebbero essere necessari 5 minuti affinché ti arrivi l'SMS con la password.

La username è il numero di telefono cellulare.

Ritorna alla pagina di login e usa le credenziali ricevute.



REGISTERED USER

USERNAME

PASSWORD

Log In

Logging in as a registered user indicates you have read and accepted the Acceptable Use Policy.

Welcome to UNIMORE wireless service.

Please sign in to begin your wireless session.

Please insert your UniMoRe Unified Credentials (Username and Password).
UNIMORE credentials are the same uid and password you use to access UNIMORE webmail:

- If you are a member of UNIMORE staff (teachers, administrative staff and employees) you can test them at webmail.unimore.it login.
- If you are a student you can test them at mail.studenti.unimore.it login.

For help: supporto.rete@unimore.it
See also:

- [Servizio WiFi di Ateneo \(italian version only\).](#)
- [WiFi FAQ \(italian version only\).](#)
- [Auto-registrazione per i partecipanti agli eventi](#)
[Self-registration for events'attendees](#)

PS: eduroam

If your institution joined eduroam, ignore the instruction above and just connect to EDUROAM network with your home credentials.

Se la tua istituzione è federata con eduroam, salta le istruzioni di auto-registrazione e connettiti al segnale EDUROAM con le credenziali della tua istituzione.

Wi-Fi

[Quick link to self-registration](#)



Or visit <https://selfaccess.unimore.it> and register with code htxxv.

The university of Modena and Reggio Emilia has joined eduroam. If your institution is part of eduroam as well, simply join EDUROAM SSID with your home credentials. No registration needed.

Practical Information

COFFEE BREAK

Coffee breaks will be available at the conference venue. They will be serve at the first floor (Balcony).

LUNCH BREAK

Lunch breaks will be available at the conference venue, served at the first floor (Balcony).

SLIDE CENTER

Your presentation has to be uploaded by the Slide Center, close to the Registration Desk.

Uploaded in the conference room are not available.

You can upload in Conftool (as document of your final paper submission) before July 1 or you can upload by the Slide Center when you arrive, at least 1 hour before your session.

ORAL PRESENTATION

Oral presentations will take 20 minutes included Q&A. They could be supported by PDF or Powerpoint files.

It is possible to show audio/video material too.

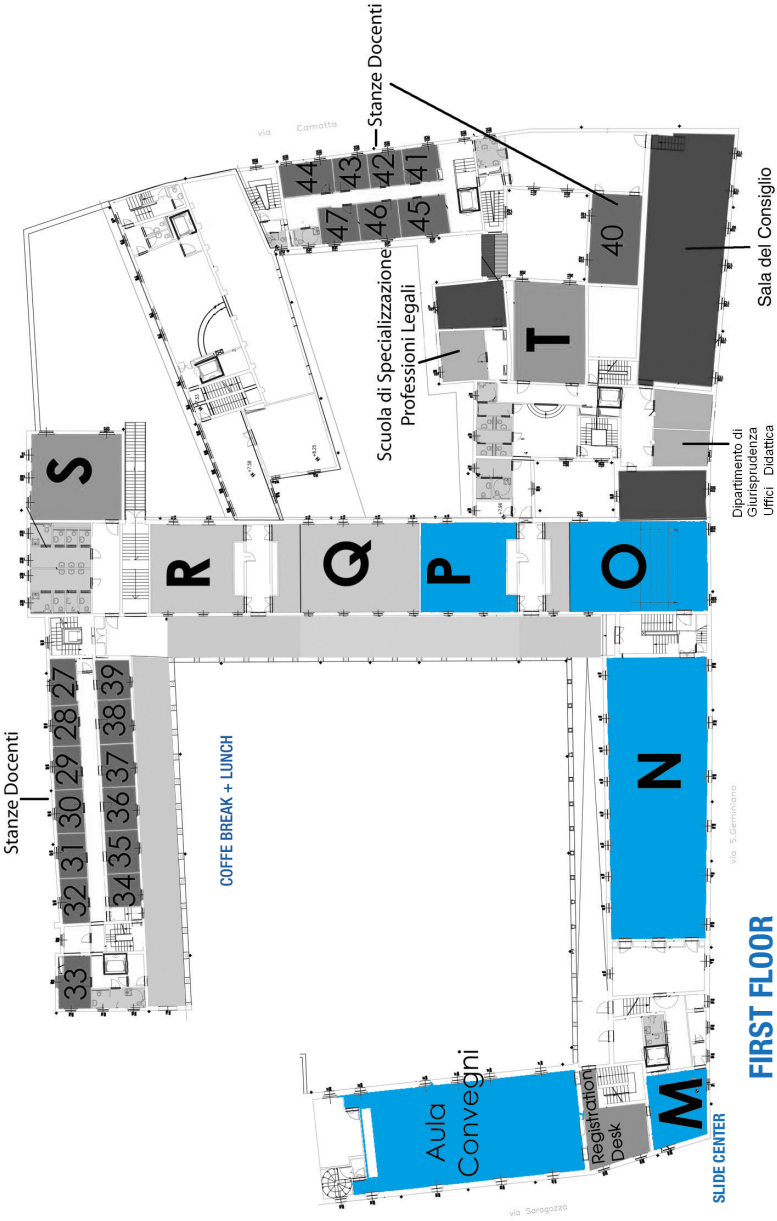
A Windows Pc will be used for presentations, with Microsoft Office Suite installed.



Maps



Conference Maps











Emergency Plan



Emergency Plan

Complesso San Geminiano: via San Geminiano, 3 – 41121 Modena.
 Complesso San Paolo: via Carotta 16 / via Salmi 67 – 41121 Modena.
EMERGENCY PLAN

| LIST OF EMERGENCY NUMBERS | | |
|---------------------------|------------------------------------|-------------|
| TYPE OF EVENT | WHO TO CALL | TEL. NUMBER |
| Fire, collapse, gas leak | Fire brigade | 115 |
| Injury | First Aid | 118 |
| Law and order | Carabinieri | 112 |
| Public Aid and Safety | Police | 113 |
| Poisoning | Milano Niguarda Poison Centre (MI) | 02/66101029 |

| TYPE OF EMERGENCY | INITIAL PHASE | WHO | DOES WHAT | DEVELOPMENT | ACTION PLAN | |
|-------------------|-------------------------|--|--------------------------|---|---|---|
| 1 | FIRE | Outbreak of fire | The nearest E.O. | sprays the fire extinguishers and informs the E.C. | Emergency abated | Return to normality |
| | | | | | Emergency unabated | Actions the alarm button to signal EVACUATION . |
| 2 | TERRORIST ATTACK | Warning of (probable) ongoing attack | The E.O. | informs the E.C. | False alarm | Awaits instructions. |
| | | | The E.C. | calls the 112 or the 113 and waits for instructions. | Evacuation order | Orders to go back to normality. Actions the alarm button to signal EVACUATION . |
| 3 | EARTHQUAKE | Perception of the emergency | All E.O. | urge the public not to panic. | When the shaking is over | Urge the public to leave the building, make sure evacuation is complete and reach the assembly area . |
| EVACUATION | |  On hearing the fire alarm | All E.O. The E.C. | urge the public to get out. calls the  115 -  118  2222 Polyclinic of Modena (only through internal telephone system) |  | Make sure evacuation is complete and reach the assembly area . |
| 4 | INJURY / SUDDEN ILLNESS | Warning of a sudden illness | The F.A.O. | checks on the conditions of the patient. | The patient recovers | Return to normality |
| | | | | | Public health services needed | The F.A.O. calls the  118 (Modena First Aid) |

ABBREVIATIONS

E.C. > EMERGENCY COORDINATOR:

E.O. > EMERGENCY OPERATOR:

F.A.O. > FIRST AID OPERATOR:

Giancarlo Bergamini;

Lucio Prandini, Giancarlo Bergamini, Stefano Malaguti and Franco Gozzi;

Stefano Malaguti, Franco Gozzi, Lucio Prandini and Giancarlo Bergamini.

ASSEMBLY AREA > GREEN AREA, PLACED ON THE OTHER SIDE OF THE MAIN ENTRY, AT THE BACK OF THE BUILDING (SOUTH SIDE).

Aerbus to/from Bologna Airport

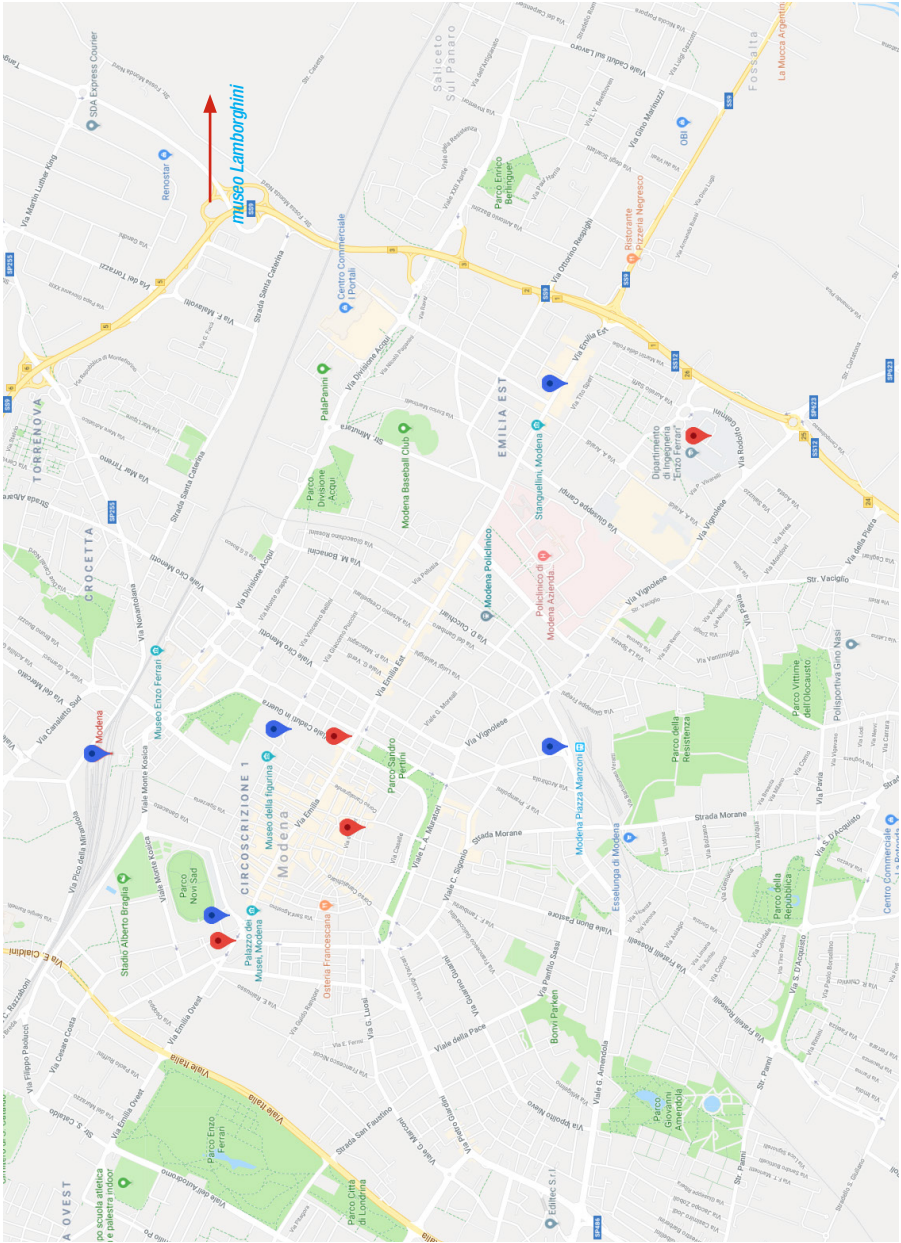
One way ticket: € 15,00

Visit: aerbus.it

From Modena to Marconi Airport

|  Da Modena Autostazione a Bologna Aeroporto Marconi  | | | | | | | | | |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| MODENA AUTOSTAZIONE Corsia 1 | 04.25 | 07.15 | 09.15 | 11.15 | 13.15 | 15.15 | 17.15 | 19.15 | 23.15 |
| Modena Stazione FS - Via Monte Kosica | 04.27 | 07.17 | 09.17 | 11.17 | 13.17 | 15.17 | 17.17 | 19.17 | 23.17 |
| Modena - Viale Caduti in Guerra (CUP) | 04.30 | 07.18 | 09.18 | 11.18 | 13.18 | 15.18 | 17.18 | 19.18 | 23.18 |
| Modena - Largo Garibaldi | 04.33 | 07.19 | 09.19 | 11.19 | 13.19 | 15.19 | 17.19 | 19.19 | 23.19 |
| Modena - Stazione Piccola | 04.37 | 07.22 | 09.22 | 11.22 | 13.22 | 15.22 | 17.22 | 19.22 | 23.22 |
| Modena - Via Vignolese Casa Studente | 04.40 | 07.25 | 09.25 | 11.25 | 13.25 | 15.25 | 17.25 | 19.25 | 23.25 |
| BOLOGNA AEROPORTO | 05.10 | 08.05 | 10.05 | 12.05 | 14.05 | 16.05 | 18.05 | 20.05 | 00.05 |

|  Da Bologna Aeroporto Marconi a Modena Autostazione  | | | | | | | | | |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| BOLOGNA AEROPORTO | 05.30 | 08.15 | 10.15 | 12.15 | 14.15 | 16.15 | 18.15 | 20.30 | 00.05 |
| Modena - Via Vignolese Casa Studente | 06.00 | 08.55 | 10.55 | 12.55 | 14.55 | 16.55 | 18.55 | 21.10 | 00.45 |
| Modena - Stazione Piccola | 06.03 | 08.58 | 10.58 | 12.58 | 14.58 | 16.58 | 18.58 | 21.13 | 00.48 |
| Modena - Largo Garibaldi | 06.06 | 09.01 | 11.01 | 13.01 | 15.01 | 17.01 | 19.01 | 21.16 | 00.51 |
| Modena - Viale Caduti in Guerra (CUP) | 06.07 | 09.02 | 11.02 | 13.02 | 15.02 | 17.02 | 19.02 | 21.17 | 00.52 |
| Modena Stazione FS - Viale Monte Kosica | 06.08 | 09.03 | 11.03 | 13.03 | 15.03 | 17.03 | 19.03 | 21.18 | 00.53 |
| MODENA AUTOSTAZIONE - Corsia 1 | 06.10 | 09.05 | 11.05 | 13.05 | 15.05 | 17.05 | 19.05 | 21.20 | 00.55 |



◆ *Aerbus Stop*

◆ *Conference Events*

NOTES

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