EMC Europe 2025

Sorbonne University, Paris, France

September 1st - 5th, 2025

CONFERENCE PROGRAM

ORGANIZED BY:

EMC SOCIETY

eseo INNOVATION MAKES SENSE

GeePS Génie électrique et électronique de Paris

xlim

SATIE

IETR

SUPPORTING INSTITUTIONS:

EMC SOCIETY

U.R.S.I. FRANCE

université PARIS-SACLAY

LABEX LIM

IEEE France Section

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WELCOME TO EMC EUROPE 2025

On behalf of the organizing committee, I am delighted to extend a warm welcome to all of you to the EMC Europe 2025 symposium in the fascinating city of Paris.

Paris, the city of light, is one of the most, if not the most, famous capital of the world. Its cultural heritage through the ages is fascinating and includes many unrivaled monuments such as the Sacré-Cœur, Notre Dame de Paris (fully restored by 2025), and, obviously, the Eiffel Tower. It is also renowned worldwide for its numerous museums, including the Louvre, Musée d'Orsay, Muséum National d'Histoire Naturelle, and so many others. Paris is a vibrant, lively city with many typical corners to discover, as well as Parisian bars, cafés and gourmet restaurants.

The EMC Europe 2025 symposium is an essential meeting place where leading international experts, researchers, and engineers will come together to share the latest scientific and technical contributions in the field of electromagnetic compatibility. EMC Europe 2025 is intended to be a forum for exchanges, discussions, and in-depth thinking, where collaborations can be forged to meet the many challenges in this field. The program will include plenary talks on major topical issues, technical sessions, and exhibitions, workshops, and tutorials, exploring the frontiers of knowledge, covering a wide range of subjects such as measurement techniques, modeling, and the management of electromagnetic risks in a world where electronics is omnipresent and underpins critical and autonomous processes.

EMC Europe 2025 is much more than a gathering of a fascinating profession at the crossroads of multiple disciplines. It is also the pleasure of getting together and discovering new faces from all over the world in a friendly atmosphere.

We look forward to your active participation, and once again extend a warm welcome to the EMC Europe 2025 Symposium in Paris.

Dr. Philippe Besnier,

Chair, EMC Europe 2025

Ansys

Leading provider of multiphysics simulation software

Ansys simulation gives engineers the ability to explore and predict how products will work - or won't work - in the real world. It's like being able to see the future, enabling engineers to innovate as never before.

Every industry faces unique, constantly evolving challenges. Ansys delivers the expertise, capabilities and tools to transform the design and production processes of industries ranging from automotive to energy to aerospace & defense.

LEARN MORE

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ABOUT EMC EUROPE

EMC Europe, the leading International Symposium on **E**lectro**M**agnetic **C**ompatibility in Europe, continues the long tradition of independent regular international symposia on **EMC** organized in Europe in: Wroclaw (20 editions since 1972) and Zurich (20 editions since 1973) as well as European Symposia which were organized in Rome (since 1994) and then in Bruges, Sorrento, Eindhoven, Barcelona and Hamburg. Each of those three symposia were held every second year.

EMC Europe is now organized annually in one of the European cities with EMC scientific centers providing an international forum for the exchange of technical information on EMC.

The Joint EMC Europe Symposia were organized in Wroclaw (2010, 2016), York (2011), Rome (2012, 2020 – virtual), Bruges (2013), Gothenburg (2014, 2022), Dresden (2015), Angers (2017), Amsterdam (2018), Barcelona (2019), Glasgow (2021 – virtual), Krakow (2023) and Bruges (2024). Dresden and Glasgow events were Joint Symposia of the IEEE International Symposium on EMC and EMC Europe Symposium.

For more information about previous and forthcoming EMC Europe Symposia, please go to the website: EMC Europe - International Symposia on EMC, by scanning the QR code :

https://premc.org/emceurope2025/

PRACTICAL INFORMATION

SYMPOSIUM VENUE

EMC Europe 2025 will be in Paris (France), at Sorbonne Université (Campus Pierre et Marie Curie). The symposium venue is situated in the heart of Paris. Paris is the capital and largest city of France. It's one of the world's leading tourist, economic, trade fair/exhibitions and cultural sports centers, and its influence in commerce, education, entertainment, media, fashion, science, and the arts all contribute to its status as one of the world's major global cities.

You can find a floorplan of the venue in the next pages of this program book.

ROOM CAPACITY

We would like for everyone to enjoy this year's meeting but this also means that we have to respect the safety regulations and that we have to respect the maximum capacity of the rooms. We will work with a first-come, first-served basis, meaning once a room reaches its capacity, entry will be restricted. However, with a wide array of sessions, you might be able to find a different presentation or session that you like to attend.

REGISTRATION & INFORMATION DESK

The information and registration desk can be found at the entrance hall of the Auditorium of the campus of Sorbonne Université. If you have any questions, concerns or problems, you can always contact one of the staff members present at the information desk and they will help you further. The registration & information desk will be open throughout the symposium for any questions you may have.

SYMPOSIUM BADGE

All registered participants will receive a named badge at the registration and information desk. This badge serves as your access pass to enter the symposium venue and participate in the sessions, coffee breaks, lunches and other activities for which you have registered. We kindly request that you wear your badge visibly at all times during the symposium & exhibition. Members of the Local Organizing Committee will also wear a 'LOC' pin on their lanyard. Do not hesitate to ask them for any information. Moreover, conference volunteers, who can be identified by their 'Any Help?' t-shirt, will always be present for assistance.

SYMPOSIUM APP

The EMC Europe 2025 smartphone app provides you with the most comfortable tool for planning your participation in the various sessions, events and the industry exhibition. Browse the complete program directly from your phone or tablet and create your very own agenda on the fly. The app is available for Android and iOS devices.

Last minute changes in the program are possible. Please be aware that the symposium app will always contain the latest program information.

To download the mobile app, please type 'Conference4me' in PlayStore / iTunes App Store / Windows Phone Store or scan the QR code below, and then select '2025 International Symposium on Electromagnetic Compatibility – EMC Europe'.

WIFI

There will be WiFi available for all participants during the symposium. The login and password will be provided at the registration desk and will also be accessible on the symposium App.

CATERING

On Monday, September 1st and Friday, September 5th, lunch will take place at restaurants near the conference venue. Tickets will be distributed to participants. On other days, lunch will be served on the conference site. Coffee breaks will take place at the conference venue, near the exhibition hall. This is also a great opportunity to get to know our sponsors & exhibitors!

EXHIBITION

From Tuesday, September 2nd to Thursday, September 4th , we are welcoming more than 30 sponsors & exhibitors to our exhibition hall. Make sure to visit the exhibition in order to get the latest updates in the field!

TRANSPORT IN PARIS

The venue for the EMC Meeting will be Sorbonne Université, located at 4 Place Jussieu, 75005 Paris. It is easily accessible by metro: Line 7 or Line 10, both stopping at Jussieu station, followed by a 7-minute walk to the venue.

Taxis are also available, with an estimated travel time of about 50 minutes from Roissy Charles de Gaulle and 30 minutes from Orly Airport.

HOW DO YOU GET AROUND IN PARIS?

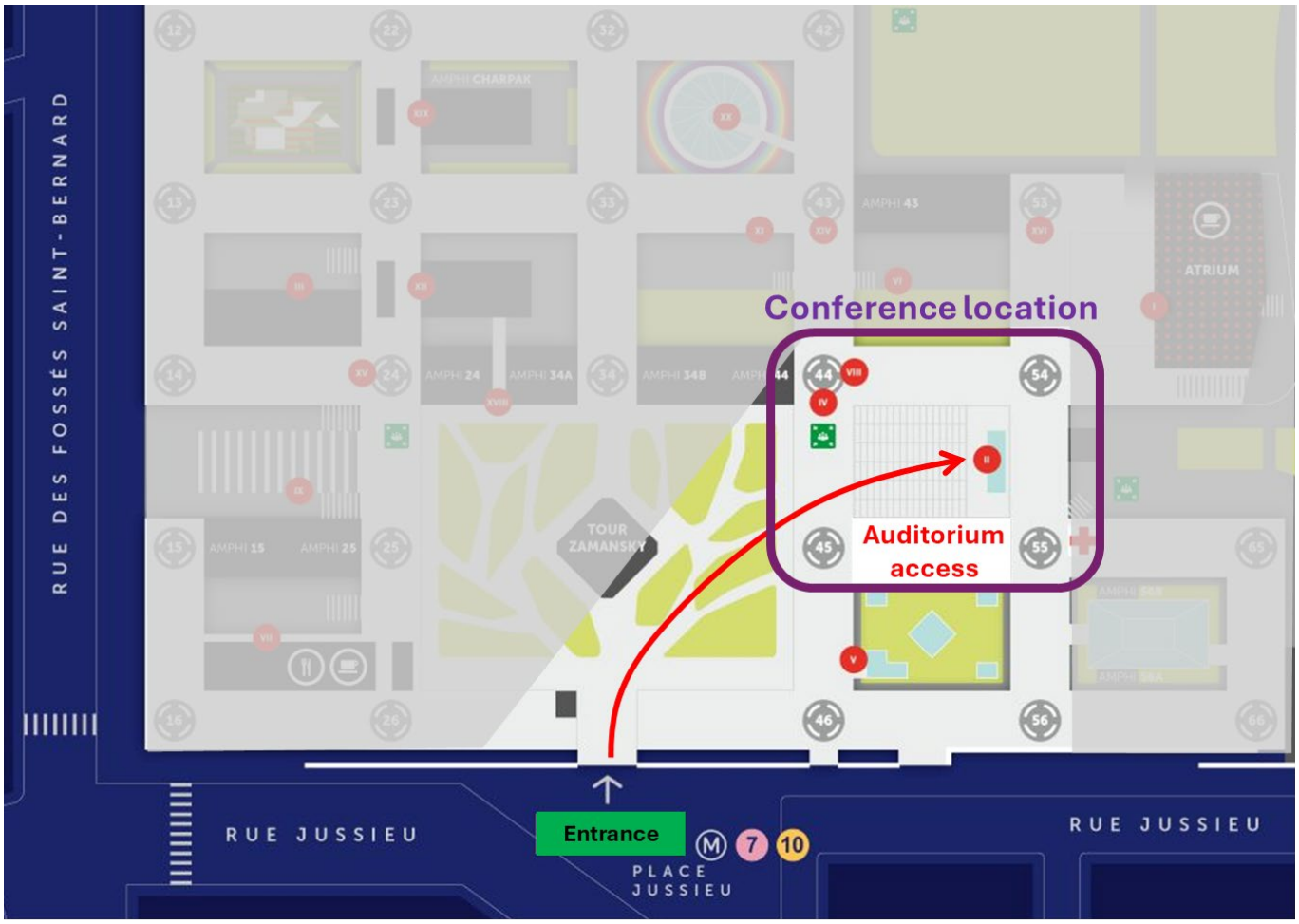
It is possible to visit several tourist sites. Please note that these activities are only suggestions. Participants are responsible for booking and organizing them independently. Scan the following QR codes for more information:

https://parisjetaime.com/eng/

https://premc.org/emceurope2025/about-paris/

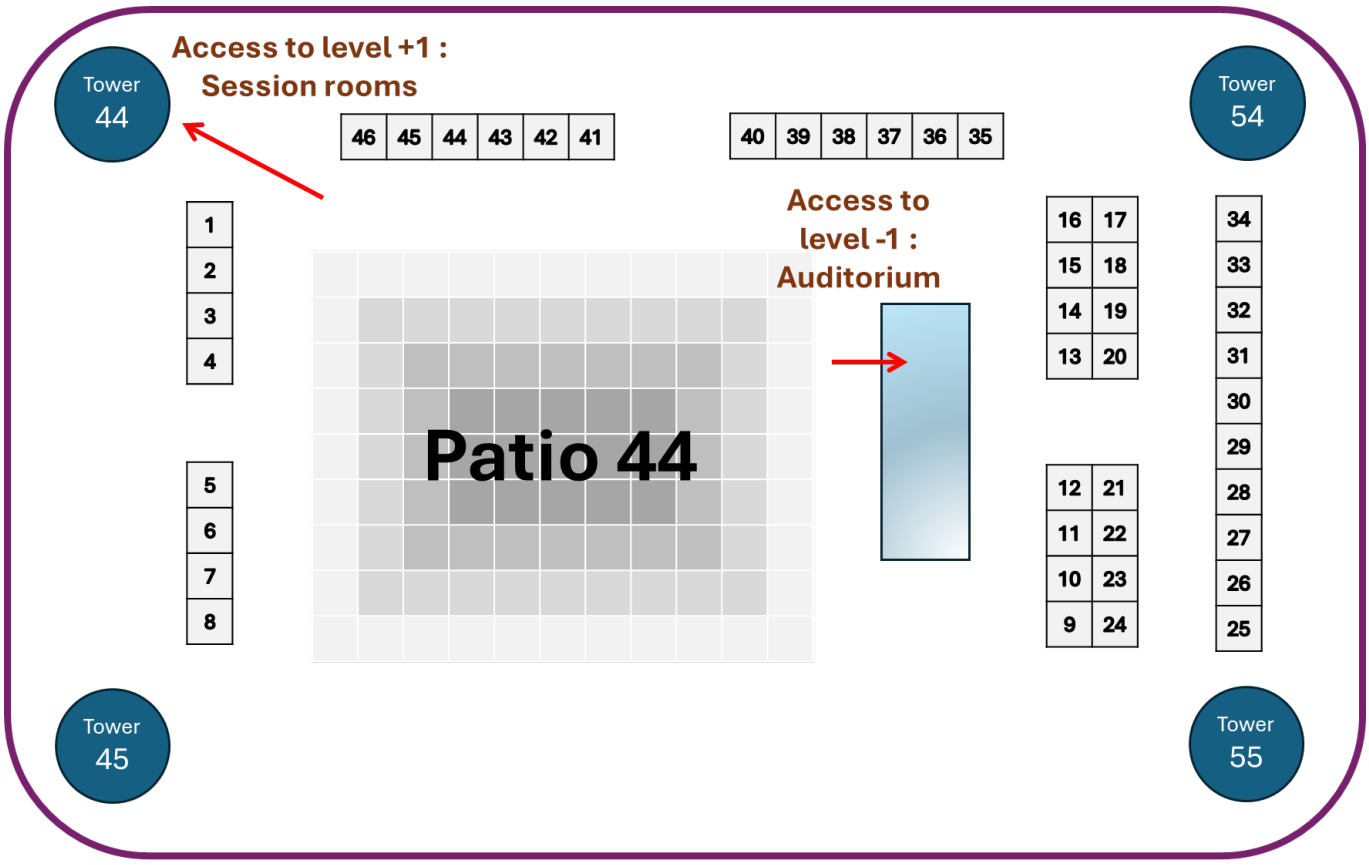
MAPS

MAP OF THE SYMPOSIUM VENUE

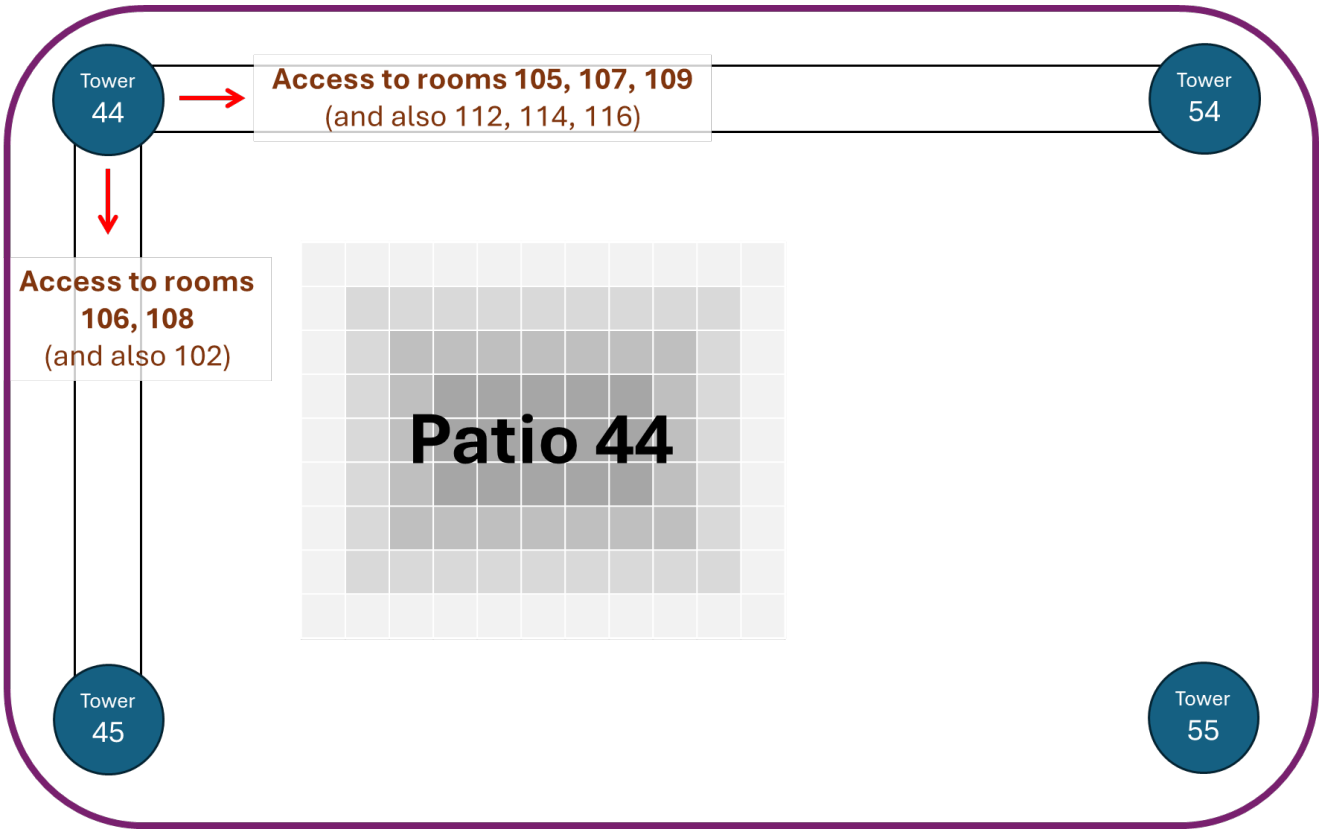


Centre de conférences internationales - Sorbonne Université (CICSU)

LEVEL 0 – ENTRANCE + EXHIBITION HALL + CATERING BREAKS + WELCOME RECEPTION



LEVEL +1 – SESSION ROOMS



SOCIAL EVENTS

WOMEN IN ENGINEERING

- Date: Monday, September 1st, 2025
- Time: 6:00 – 11:00 PM
- Location: at 6:00 PM in front of Notre-Dame of Paris
  at 8:15 PM at restaurant Le Bossu, 17 Rue des Deux Ponts, Paris

Join us for an enchanting evening at the Women in Engineering (WIE) event on Monday, September 1st.
Accompanied by a certified guide, we will explore the iconic Notre-Dame Cathedral in Paris, a masterpiece of Gothic architecture that has recently completed its extensive renovation and is now reopened to the public. This landmark, steeped in history and grandeur, promises a captivating visit.
Following the guided tour, we will continue the evening with a delightful dinner at a nearby restaurant, offering the perfect opportunity to connect and exchange in a warm and convivial setting.
This promises to be a unique and memorable event, and we are looking forward to welcoming you! Register now to secure your spot, as places are limited.
This social event is primarily designed for female participants from all professional backgrounds and experience levels.

WELCOME RECEPTION

- Date: Tuesday, September 2nd, 2025
- Time: 6:00 – 9:30 PM
- Location: CICSU exhibition hall, patio 44

The EMC Europe 2025 Welcome Reception will take place at the symposium venue. More precisely, it will be held in the exhibition area (the patio) at 6 PM.

YOUNG PROFESSIONALS

- Date: Tuesday, September 2nd , 2025

- Time: 6:15 – 11:00 PM
- Location: at 6:15 PM The Game, 51 Rue du Cardinal Lemoine, Paris
  at 8:15 PM Restaurant Le nouvel institut, 1 Bd Saint-Germain, Paris

Join us for the second edition of the Young Professionals (YP) social event!

We are excited to invite you to the YP Networking Social Event, taking place on Tuesday, September 2nd. This year, get ready for an immersive escape game experience, where teamwork and problem-solving will be key to success! After the challenge, we will continue the evening with a relaxed and convivial dinner, providing the perfect opportunity to connect with fellow young professionals, exchange ideas, and expand your network in a friendly atmosphere.

This event is designed to strengthen connections between YPs and foster relationships with like-minded individuals within the community. Whether you are new to the field or already well-established, this is a great opportunity to engage with peers and industry experts in an informal and enjoyable setting.

This activity is full, no more registrations are possible.

GALA DINNER

- Date: Wednesday, September 3rd, 2025
- Time: 7:00 PM: Doors open
  8:30 PM: Dinner served
  1:00 AM: End of the evening
- Location: Les Pavillons de Bercy – Musée des Arts Forains, 53 Avenue des Terroirs de France, Paris
- Itinerary: From the conference centre, take metro line 7 towards Villejuif and get off at ‘Maison Blanche’, then take metro line 14 towards Saint-Denis Pleyel and get off at Cour Saint-Émilion. The journey takes 25-30 minutes.

Join us for an unforgettable evening at the **Les Pavillons de Bercy** on **Wednesday, September 3rd**.

We warmly invite you to an exceptional experience. Set in this iconic venue filled with history and charm, get ready for a truly unique evening. A delightful seated dinner will be served in an elegant and convivial atmosphere. But that's not all – expect surprises and memorable moments carefully planned just for you. Let yourself be transported into a captivating world, perfect for networking, sharing, and celebration. This promises to be a unique and memorable event, and we are looking forward to welcoming you!

CRUISE ON THE SEINE

- Date: Thursday, September 4th, 2025
- Boat Departure Time: 6:45 PM
- Location: to be announced on the website

Join us for a magical evening on the Seine with a breathtaking boat cruise on September 4th!

We warmly invite you to an enchanting experience aboard a luxurious boat, where you'll glide past Paris's most iconic monuments. As the city lights reflect on the water, prepare to be captivated by the charm and beauty of this unforgettable journey.

This social event is the perfect opportunity to relax, network, and share memorable moments with fellow attendees in a truly unique setting. Let yourself be transported into a world of elegance and wonder, creating connections and memories that will last a lifetime.

Be sure to reserve your spot for this extraordinary evening – a highlight of our conference that promises to inspire and delight!

UTAC TECHNICAL TOUR

- Date: Friday, September 5th, 2025
- Bus departure Time: 9:30 AM
- Bus departure Location: Place Jussieu (in front of the university main entrance)
- Bus departure Time from UTAC: 2:30-3:00 PM
- Estimated arrival at Sorbonne Université (depending on traffic): 4:00 PM

Discover the historic Linas-Montlhéry Autodrome site and explore UTAC's state-of-the-art facilities on September 5th. This immersive experience will take you through key services, including acoustics (featuring indoor noise measurements), the EMC department (with emission/radio and reverberation chambers), and live demonstrations of high-voltage tests such as harmonics and flickers.

You'll also witness the impressive giant semi-anechoic chamber, designed for EMC testing on heavy vehicles, showcasing cutting-edge technologies developed in partnership with ETS-Lindgren. The tour will conclude with a friendly lunch and a visit to the ADAS track (TECMO), offering a firsthand look at advanced testing capabilities.

Don't miss this unique opportunity to dive into the world of innovation and technology before returning to Paris. A must-attend event for enthusiasts and professionals alike!

COMMITTEES

INTERNATIONAL STEERING COMMITTEE (ISC)

- **Chairman:** D. Pissoort (Belgium)
- **Vice-Chairman:** M. Ramdani (France)

ISC ASSOCIATES

- F.G. Canavero (Italy)
- J. Catrysse (Belgium)
- C. Christopoulos (United Kingdom)
- M. d'Amore (Italy)
- P. Degauque (France)
- H. Garbe (Germany)
- A.C. Marvin (United Kingdom)
- A.P.J. van Deursen (The Netherlands)
- J.L. ter Haseborg (Germany)

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- P. Besnier (France)
- J. Carlsson (Sweden)
- B. Deutschmann (Austria)
- S. Dickmann (Germany)
- M. Feliziani (Italy)
- F. Grassi (Italy)
- Z. Joskiewicz (Poland)
- M. Klingler (France)
- F.B.J. Leferink (The Netherlands)
- F. Maradei (Italy)
- V. Mariani Primiani (Italy)
- N. Moonen (The Netherlands)
- D. Poljak (Croatia)
- M. Pous (Spain)
- F. Rachidi (Switzerland)
- F. Sabath (Germany)
- M.S. Sarto (Italy)
- R. Serra (The Netherlands)
- F. Silva (Spain)
- R. Smolenski (Poland)
- D. Thomas (United Kingdom)
- K. Wiklundh (Sweden)

LOCAL ORGANIZING COMMITTEE

General Chair: P. Besnier (IETR - CNRS)
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Vice-Chair: M. Ramdani (IETR - ESEO)
Technical Program Chair: R. Perdriau (IETR - ESEO)
Technical Program Co-Chair: M. Bensetti (GeePs – CentraleSupélec)

G. Andrieu (XLIM - Université de Limoges)
V. Deniau (COSYS - Université Gustave Eiffel)
C. Hamel-Dellenbach (GeePs - Sorbonne Université)
C. Jullien (Safran)
M. Klingler (Klingler International Consulting Services)
F. Lafon (Valeo)
P-E. Levy (SATIE – ENS Paris-Saclay)
F. Sarrazin (IETR – Université de Rennes)
J. Sarrazin (GeePs – Sorbonne Université)
J. Sol (IETR – INSA Rennes)
A. Voldoire (GeePs - CentraleSupélec)

KEYNOTES

KEYNOTE 1

Artificial Intelligence: Transforming the Engineering Landscape

Alexandre Briot, Group Artificial Intelligence Manager, Applied Machine Learning Team, Valeo Senior Expert

Alexandre Briot received the Engineering Degree from Telecom Paris Tech, France in 2001 and a masters degree in AI from Pierre and Marie Curie University, Paris in 2002. He was a Signal Processing and Machine Learning engineer in Parrot R&D department for more than 10 years. He joined Valeo in 2018 and he is now managing an Applied Machine Learning team whose mission is to implement internally AI-powered use cases to accelerate Valeo AI transformation.

Abstract: Artificial intelligence (AI) is rapidly evolving and offers a wide array of uses. From simple statistical tools and machine learning models to sophisticated deep learning and large language models, AI has the potential to revolutionize engineering. It can automate processes, accelerate design exploration, and enable more natural human-machine interaction through language. Industry leaders recognize the transformative power of AI and are embracing it to gain a competitive edge.

This presentation begins with a refresher on key definitions and concepts in machine learning, emphasizing the crucial role of data. We'll then focus on the exciting potential of generative AI, exploring both its promise and current limitations. Finally, we'll bring it all together, exploring practical use cases and demonstrating how AI can be applied to enhance EMC activities.

KEYNOTE 2

Toward sustainable power electronics technology, state of the art and perspectives

Jean-Christophe Crébier, CNRS senior researcher, G2Elab, Grenoble Electrical Engineering Lab, member of Power Electronics group

Jean-Christophe Crébier received the Ph.D. degree in power electronics, EMC for PFC converters, from INP Grenoble, Grenoble, France, in 1999. Since 2001, he is CNRS researcher at Grenoble Electrical Engineering Laboratory (G2ELab), in the field of power electronics. Since 2019, he is focusing his research activities on sustainable power electronics, eco-design, lifespan extension, components and sub-systems reuse, repair and repurposing toward the emergence circular economy in power electronics.

Abstract: Global warming has brought to light the multiple environmental impacts of our modern societies. Advanced and modern technologies, very often seen as upcoming solutions to breakdown environmental impacts, are also responsible of most of waste, pollutions and rebound effects. Decarbonation, which is a requirement, may also lead to impact transfer inducing pressure on material depletion, and multiple pollution and waste generation. We are urged to tackle technologies that are compatible with the planetary boundaries!

The presentation outline the limits of actual eco-design/eco-optimization approaches to introduce the need to investigate design approaches less sensitive to rebound effects and impact transfers. Then it focuses on the design methods, metrics and concepts expected to engage power electronics and more widely electronics toward circular economy. Socio-economic and regulation considerations are introduced as key enablers of sustainable technologies.

AWARDS

BEST PAPER AWARD NOMINEES

155	**Influence of HV-AN and Cage Filter in Emissions Measurements According to CISPR25** Frederic LAFON[1], Remy Perrot[2], Xavier Bunlon[3] [1]VALEO, France; [2]UTAC; [3]AMPERE
170	**Arbitrary Data Injection into CMOS Integrated Circuits via Dual-Wave Electromagnetic Irradiation** Masahiro Kinugawa[1], Yuichi Hayashi[2] [1]The University of Fukuchiyama; [2]Nara Institute of Science and Technology (NAIST)
177	**Attenuation of Common-Mode Currents: Skin Effect and Proximity Effect Optimized Absorptive Low-Pass Filter Layer** Matthias Hampe, Mario Potschatski, Sean-Patrik Cretti Ostfalia University of Applied Sciences, Germany
218	**Modular Dual-Ridged Horn Antenna Design for EMC Testing in 14.9 to 44 GHz Range** Adam Tankielun[1], Shreyas Bharadwaj[1,2], Hans-Peter Bauer[3], Jens Medler[1], Maximilian Weinzierl[1] [1]Rohde & Schwarz GmbH & Co KG, Germany; [2]Technische Universität Ilmenau, Germany; [3]Rohde & Schwarz, USA, Inc.
328	**AI-Based Design and Optimization for Automotive High-Voltage Filters Focusing on Novel Cost-Effective Filter Structures** Nima Tashakor[1], Ben Esser[1], Bastian Arndt[1], Peter Olbrich[1], Jens Friebe[2], Artjom Avakian[1] [1]Volkswagen AG, Germany; [2]Kassel University, Germany

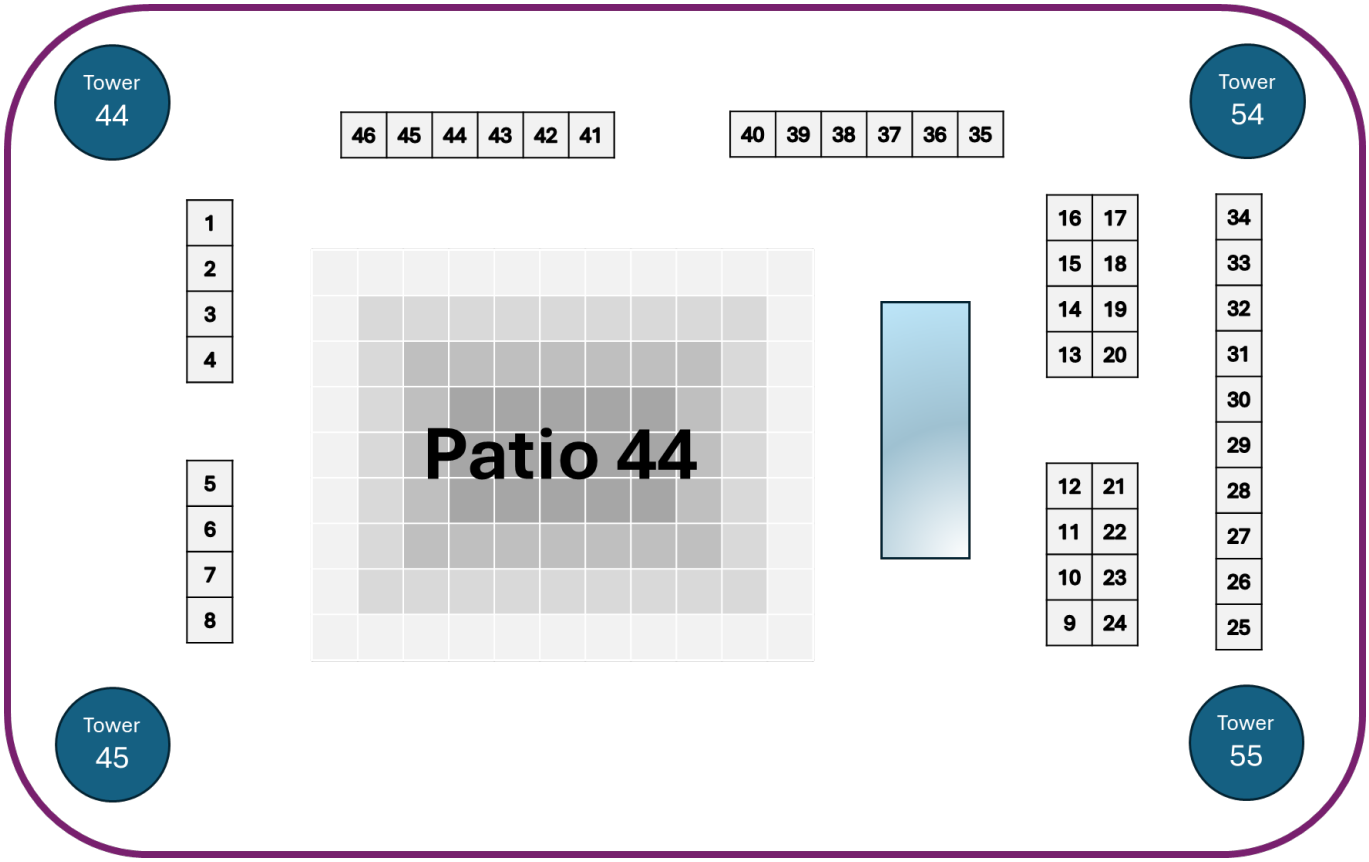
BEST STUDENT PAPER AWARD NOMINEES

188	**Digital Active CM EMI Suppression of a DC-DC Converter with Synthesized Switching-Slope Dependent Cancellation Pulses** Jens Aigner, Maximilian Lemke, Maximilian Ambaum, Tobias Dörlemann, Stephan Frei TU Dortmund University, Germany
235	**A Hybrid Measurement Setup for Evaluating the Shielding Effectiveness of Small Enclosures in a Reverberation Chamber from 200 MHz to 10 GHz** Zhao CHEN[1], Johan Catrysse[1], Tim Claeys[1], Davy Pissoort[1,2] [1]ESAT-WaveCoRE, M-Group, KU Leuven, Belgium; [2]Flanders Make, KU Leuven, Belgium
308	**Targeted EMC Analysis Using a Novel Characteristic Mode Analysis Approach** Hannes Schreiber, Philipp Herwigk, Marco Leone Otto-von-Guericke University Magdeburg, Germany
330	**Empirical Estimation of the Effective Sample Size Based on the Central Limit Theorem in Reverberation Chambers** Anyela Aquino-Velasquez[1,2], Philippe Besnier[2], Priscila Fernandez-Lopez[1], Mohsen Koohestani[2] [1]Valeo, Créteil, France; [2]Université de Rennes, INSA Rennes, ESEO Angers, IETR UMR 6164 CNRS, CentraleSupélec, Nantes Université, F 35000 Rennes, France
333	**Extraction of the Equivalent Coupling Surface of a capacitor mounted on a PCB using Near-Field Scan** Dennis Wanyoike[1], Alexandre Boyer[2], Sebastien Serpaud[3] [1]IRT Saint Exupery - Toulouse, France; [2]Laboratoire d'analyse et architecture des systèmes - LAAS-CNRS; [3]L'institut national des sciences appliquées de Toulouse (INSA Toulouse)

EXHIBITION

EMC Europe 2025 boasts a vibrant sponsor exhibition, showcasing over 30 booths manned by the industry's foremost companies. This premier event, running from Tuesday, September 2nd until Thursday, September 4th, provides unparalleled networking opportunities, allowing attendees to connect with key players, discover the latest innovations, and forge valuable partnerships. Don't miss your chance to engage with our industry partners!

Location of sponsor Exhibition : level 0



List of exhibitors with booth number

1. Equipement Scientifiques
2. 3M
3. Jacques Dubois
4. Dassault Systems
5. IEEE EMC Society
6. Freicomp
7. AGC Glass Europe - WaveTrap
8. Comtest
9. Hytem
10. Rigol Technologies
11. Qualwave
12. Ansys
13. Emcos
14. Kitagawa
15. Seibersdorf Laboratories
16. Rohde Schwarz
17. *Meet the experts*
18. Nuclétudes
19. Würth Elektronik
20. Microwave Vision
21. Anritsu
22. Haefely
24. Oak-Mitsui Technologies
30. Nexio
35. Fair-Rite
36. EMC Partner
37. EMC Partner
38. Robust Physics
39. ETS Lindgren
40. Lumiloop
41. Siepel
42. EM TEST France
43. Cergen
44. Advanced Test Equipment
45. EM CoreTech
46. Equipements Scientifiques

SYMPOSIUM PROGRAMME

Monday, September 1st, 2025

Short program

8:00am	**Registration** Location: **Patio**		
9:00am - 10:30am	**NATO Electromagnetic Environmental Effects (E3) Standardisation** Location: **Auditorium**	**Using 3D models for ESD protection devices for Signal Integrity and ESD Simulations** Location: **Room 105**	**A New Standard for Shielding Measurement from DC to 40GHz: IEEE P2855 (Part 1)** Location: **Room 106**
	EMC of Grid-Tied Power Electronic Converters in Supraharmonics Frequency Range (Part 1) Location: **Room 107**	**More, Better, Faster – The Rapid Evolution of Automotive EMC Design and Test (Part 1)** Location: **Room 108**	**Intentional Electromagnetic Interference and Wireless Communication Systems: Impact, Detection and Localization of Attack Sources** Location: **Room 109**
10:30am - 11:00am	**Coffee Break** Location: **Patio**		
11:00am - 12:30pm	**Fundamentals of Electromagnetic Compatibility (Part 1)** Location: **Auditorium**	**A Review on the Characterization, Modeling and Simulation of Conducted and Radiated Emissions of Power Printed Circuit Boards (PPCB)** Location: **Room 105**	**A New Standard for Shielding Measurement from DC to 40GHz: IEEE P2855 (Part 2)** Location: **Room 106**
	EMC of Grid-Tied Power Electronic Converters in Supraharmonics Frequency Range (Part 2) Location: **Room 107**	**More, Better, Faster – The Rapid Evolution of Automotive EMC Design and Test (Part 2)** Location: **Room 108**	**IEMI (Intentional Electromagnetic Interference) Risk Management for Critical Infrastructures (Part 1)** Location: **Room 109**
12:30pm - 2:20pm	**Lunch** Location: **Restaurants nearby**		
2:20pm - 3:50pm	**Fundamentals of Electromagnetic Compatibility (Part 2)** Location: **Auditorium**	**EMC in Power Electronics: Principles of EMI Generation, Aggregation and Mitigation for Electrical Systems and Electrical Transport (Part 1)** Location: **Room 105**	**Ansys Industrial Forum (Part 1)** Location: **Room 106**
	Physical Layer Security against Compromising Electromagnetic Emanations (Part 1) Location: **Room 107**	**Effectively Addressing Measurement Uncertainty in Electromagnetic Compatibility Testing (Part 1)** Location: **Room 108**	**IEMI (Intentional Electromagnetic Interference) Risk Management for Critical Infrastructures (Part 2)** Location: **Room 109**

3:50pm - 4:20pm	**Coffee Break** Location: **Patio**		
4:20pm - 5:50pm	**Fundamentals of Electromagnetic Compatibility (Part 3)** Location: **Auditorium**	**EMC in Power Electronics: Principles of EMI Generation, Aggregation and Mitigation for Electrical Systems and Electrical Transport (Part 2)** Location: **Room 105**	**Ansys Industrial Forum (Part 2)** Location: **Room 106**
	Physical Layer Security against Compromising Electromagnetic Emanations (Part 2) Location: **Room 107**	**Effectively Addressing Measurement Uncertainty in Electromagnetic Compatibility Testing (Part 2)** Location: **Room 108**	**IEMI (Intentional Electromagnetic Interference) Risk Management for Critical Infrastructures (Part 3)** Location: **Room 109**
6:00pm - 11:00pm	**IEEE Women in Engineering Social Event**		

Monday , September 1st, 2025 : Detailed program

8:00am	**Registration** Location: **Patio**
9:00am - 10:30am	**NATO Electromagnetic Environmental Effects (E3) Standardisation** Location: **Auditorium** Session Chair: **Hywel S**, HMG, United Kingdom
	NATO E3 Standardisation - An Introduction **Hywel S, AJM v Bladel** NATO E3 Action Team
	NATO STANAG 4868, AECTP-250 (E3 Environments) and AECTP-500 (E3 Test & Verification Methods) Overview **Hywel S, Matt H, AJM v Bladel** NATO E3 Action Team
	NATO Land Platform EMC Testing **AJM van Bladel** NATO E3 Action Team
	Effects on radio systems on military platforms using the EMC standard NRE04S or alternatives **Sara Linder[1], Kia Wiklundh[1], Karina Fors[1], Maria Elenius[1], Petter Gärdin[2]** [1]Swedish Defence Research Agency (FOI); [2]Swedish Armed Forces Communication and Information Systems Command (SwAF CISCOM)
9:00am - 10:30am	**Using 3D models for ESD protection devices for Signal Integrity and ESD Simulations** Location: **Room 105** Session Chair: **Dr. ANDREAS HARDOCK**, Nexperia Germany GmbH, Germany
	Using 3D models for SI simulations of ESD protection devices and EMI filters **Jennifer Schütt, Preethi Subbaraju** Nexperia Germany GmbH, Germany
	SEED Simulations for Optimal System-level ESD Protection **Sergej Bub**

	Nexperia Germany GmbH, Germany
	System level simulations **Richard Sjiariel, Andreas Barchanski** DS Deutschland GmbH
9:00am - 10:30am	**A New Standard for Shielding Measurement from DC to 40GHz: IEEE P2855 (Part 1)** Location: **Room 106** Session Chair: **Dr. Charles JULLIEN**, Safran Electrical & Power, France Session Chair: **Mart Coenen**, EMCMCC, The Netherlands
	Cable/connector assembly shielding effectiveness characterization from DC to 40GHz, the new Std P2855 **Charles JULLIEN[1], Mart COENEN[2]** [1]Safran Electrical & Power, France; [2]EMCMCC, Netherlands
	Shielding Effectiveness Measurements of Cables with GTEM Cell **Sahin FURKAN, Sander BRONCKERS, Anne ROC'H** TU/e, Netherlands
	Applying absorbers for suppressing higher-order modes when measuring the screening attenuation of connectors and cable assemblies with the triaxial method up to 10 GHz **Thomas SCHMID, Benjamin PASTOTTER** Rosenberger, Germany
9:00am - 10:30am	**EMC of Grid-Tied Power Electronic Converters in Supraharmonics Frequency Range (Part 1)** Location: **Room 107** Session Chair: **Prof. Pooya Davari**, Aalborg University, Denmark
	Introduction to Supraharmonics EMI/EMC Challenge in Power Electronics **Pooya Davari** Aalborg University, Denmark
	Grid Characterization and Data Collection **Abduselam Beshir Hamid[1], Per Thåstrup Jensen[3], Szymon Pasko[2]** [1]Aalborg University, Denmark; [2]TE Connectivity, Switzerland; [3]FORCE Technology, Denmark
	Power Converter Noise Propagation Path Modeling **Pooya Davari, Abduselam Beshir Hamid** Aalborg University, Denmark
9:00am - 10:30am	**More, Better, Faster – The Rapid Evolution of Automotive EMC Design and Test (Part 1)** Location: **Room 108** Session Chair: **Janet O'Neil**, ETS-Lindgren, United States of America
	The Evolution of the Newly Published CISPR12 Seventh Edition **Remy Perrot** UTAC, Montlhéry Cedex, France
	Addressing the Complexities of the New ISO 11451-5, Reverberation Chamber Method **Garth D'Abreu** ETS-Lindgren, United States of America
	Automotive EMC and IC – The Crossover Testing Methods **Robert Mitchell** TUV Rheinland, United States of America
9:00am - 10:30am	**Intentional Electromagnetic Interference and Wireless Communication Systems: Impact, Detection and Localization of Attack Sources**

	Location: **Room 109** Session Chair: **Dr. Virginie Deniau**, université Gustave Eiffel, France Session Chair: **Dr. Jose Lopes Esteves**, ANSSI, France
	Cybersecurity exploitation of IEMI **José Lopes Esteves** Agence nationale de la sécurité des systèmes d'information
	Intentional Electromagnetic Interference and wireless communication systems: impact, detection and localization of attack sources **Virginie Deniau, Christophe Gransart, Jonathan Villain** université Gustave Eiffel, France
	Detection and localization of a jamming source inside a building **Jonathan Villain[1], Virginie Deniau[1], Dufour Michael[2], Gransart Christophe[1]** [1]Université Gustave Eiffel, France; [2]Inodesign
10:30am - 11:00am	**Coffee Break** Location: **Patio**
11:00am - 12:30pm	**Fundamentals of Electromagnetic Compatibility (Part 1)** Location: **Auditorium** Session Chair: **Dr. Anne Roc'h**, Eindhoven University of Technology, The Netherlands Session Chair: **Dr. Philippe Besnier**, CNRS - UMR 6164 - IETR, France
	Electric fields, magnetic fields, and Maxwell's equations **Guillaume Andrieu** XLIM laboratory, limoges, France
	Transmission line theory and basic signal integrity **Philippe Besnier** IETR, Rennes, France
11:00am - 12:30pm	**A Review on the Characterization, Modeling and Simulation of Conducted and Radiated Emissions of Power Printed Circuit Boards (PPCB)** Location: **Room 105** Session Chair: **Prof. Jean Marc Dienot**, Université Toulouse - Paul Sabatier, France
	Basics of conducted and radiated emissions for Power Printed Circuit Board (PPCB) **Jean Marc Dienot[1,2]** [1]Labceem, Université Toulouse - Paul Sabatier, France; [2]Laboratoire SIAME – Fédération IPRA, EA458, E2S UPPA
	A behavioral model for conducted mode emission of electrical converters for the MEA **Noan Artaud[1,2]** [1]Laboratoire SIAME – Fédération IPRA, EA458, E2S UPPA; [2]Onera, DEMR, Toulouse, France
	Oriented EMC simulations to design High-Power modules in Railway **Emmanuel Batista** Alstom Transport S.A., Séméac, France
11:00am - 12:30pm	**A New Standard for Shielding Measurement from DC to 40GHz: IEEE P2855 (Part 2)** Location: **Room 106** Session Chair: **Dr. Charles JULLIEN**, Safran Electrical & Power, France Session Chair: **Mart Coenen**, EMCMCC, The Netherlands
	Localized Injection up to 20GHz, new transfer parameter **Charles JULLIEN, Thomas COLLETER** Safran Electrical & Power, France
	Shielding Effectiveness using Semi Anechoic (SAC) and GTEM Cell Methods

	Jack MCFADDEN ETS Lindgren, USA
	Transfer impedance measurement method for flexPCB shields **Jaco VERPOORTE, Jesper LANSINK ROTGERINK** NLR, Netherlands
11:00am - 12:30pm	**EMC of Grid-Tied Power Electronic Converters in Supraharmonics Frequency Range (Part 2)** Location: **Room 107** Session Chair: **Prof. Pooya Davari**, Aalborg University, Denmark
	EMI Filter Design and Reliability **Pooya Davari[1], Szymon Pasko[2], Huai Wang[1], Zhaoxin Wang[1]** [1]Aalborg University, Denmark; [2]TE Connectivity, Switzerland
	Power Electronic Electromagnetic Interference Simulation Software Tool **Pooya Davari** Aalborg University, Denmark
11:00am - 12:30pm	**More, Better, Faster – The Rapid Evolution of Automotive EMC Design and Test (Part 2)** Location: **Room 108** Session Chair: **Janet O'Neil**, ETS-Lindgren, United States of America
	Anechoic Chamber Design Considerations for Full Vehicle Testing **Zhong Chen** ETS-Lindgren, United States of America
	Instrumentation Insights for Automotive EMC Pre- and Full Compliance Testing **Frederic Zarzecki** Keysight Technologies, United Kingdom
11:00am - 12:30pm	**IEMI (Intentional Electromagnetic Interference) Risk Management for Critical Infrastructures (Part 1)** Location: **Room 109** Session Chair: **Dr. Marian Lanzrath**, Fraunhofer INT, Germany Session Chair: **Dr. Sven Fisahn**, Bundeswehr Research Institute for Protective Technologies and CBRN Protection (WIS), Germany
	On the Concept of EMI Risk Management **Frank Sabath** Bundeswehr Research Institute for Protective Technologies and CBRN Protection, Germany
	The threat of Intentional Electromagnetic Interference (IEMI) for electronic devices and critical infrastructures **Marian Lanzrath** Fraunhofer INT, Germany
	Resilient Digital Substation and Cost Benefit Analysis **Joel Kellogg** ETS-Lindgren, United States of America
12:30pm - 2:20pm	**Lunch** Location: **Restaurants nearby**
2:20pm - 3:50pm	**Fundamentals of Electromagnetic Compatibility (Part 2)** Location: **Auditorium** Session Chair: **Dr. Anne Roc'h**, Eindhoven University of Technology, The Netherlands Session Chair: **Dr. Philippe Besnier**, CNRS - UMR 6164 - IETR, France
	Crosstalk **Alexandre Boyer** INSA Toulouse, FR

	EMC in ICs **Mohammed Ramdani**, **Richard Perdriau** ESEO, Angers, Fr
2:20pm - 3:50pm	**EMC in Power Electronics: Principles of EMI Generation, Aggregation and Mitigation for Electrical Systems and Electrical Transport (Part 1)** Location: **Room 105** Session Chair: **Dr. Daria Nemashkalo**, University of Twente, The Netherlands Session Chair: **Dr. Mattia Simonazzi**, University of Bologna, Italy
	Introduction to EMC in Power Electronics, EMI Filter Design Basics and Performance Evaluation for Power Electronics Applications **Daria Nemashkalo** University of Twente, The Netherlands
	DC-DC Converter as Educational and Research Platform **Sebastian Koj** Jade University of Applied Sciences
	Aggregation of Conducted Emissions from Electronic Power Converters in Smart Grids **Leonardo Sandrolini**, **Mattia Simonazzi** University of Bologna
2:20pm - 3:50pm	**Ansys Industrial Forum (Part 1)** Location: **Room 106**
	High Fidelity Electromagnetic Simulation: Bridging Aerospace Innovations to Diverse Industries **Sebastian Soldwisch** EMA3D
	EMC and RFC challenges on Thales Alenia Space Earth Observation satellites with Ansys suite **Giovanni Mongini**[1], **Alessandro Giordani**[2], **Emiliano Scione**[3] [1]Thales Alenia Space; [2]Thales Alenia Space; [3]Thales Alenia Space
2:20pm - 3:50pm	**Physical Layer Security against Compromising Electromagnetic Emanations (Part 1)** Location: **Room 107** Session Chair: **Prof. Yu-ichi Hayashi**, Nara Institute of Science and Technology, Japan Session Chair: **Prof. Frank Leferink**, University of Twente - THALES, The Netherlands
	Introduction to Physical Layer Security against Compromising Electromagnetic Emanations **Yuichi Hayashi** Nara Institute of Science and Technology, Japan
	Dealing with TEMPEST threat in its entirety - beyond video emanations in electric field **Emmanuel Cottais** SGDSN/ANSSI
	Eavesdropping on DisplayPort: challenges and opportunities **Dimitrije Erdeljan**, **Markus G. Kuhn** Univerity of Cambridge
2:20pm - 3:50pm	**Effectively Addressing Measurement Uncertainty in Electromagnetic Compatibility Testing (Part 1)** Location: **Room 108** Session Chair: **Janet O'Neil**, ETS-Lindgren, United States of America
	Practical Considerations Related to Measurement Uncertainty for EMC Test Labs **Nicholas Abbondante** Intertek, United States of America

	Reducing Antenna Pattern Related Uncertianties in Radiated Emissions Testing **Zhong Chen** ETS-Lindgren, United States of America
	Model Based Systems Engineering (MSBE) Approach for the Evaluation of a Robotic Antenna Test System **Dennis Lewis** Boeing, United States of America
2:20pm - 3:50pm	**IEMI (Intentional Electromagnetic Interference) Risk Management for Critical Infrastructures (Part 2)** Location: **Room 109** Session Chair: **Dr. Marian Lanzrath**, Fraunhofer INT, Germany Session Chair: **Dr. Sven Fisahn**, Bundeswehr Research Institute for Protective Technologies and CBRN Protection (WIS), Germany
	2:20pm - 3:10pm **Vulnerability of Wireless Systems to (Intentional) EMI** **Frank Leferink**[1,2] [1]UTwente, Netherlands; [2]Thales, Netherlands
	Differences in the Coupling Behavior of HPEM Threats to Shielded Electronic Systems **Sven Fisahn** Bundeswehr Research Institute for Protective Technologies and CBRN Protection, Germany
	Concepts for Quantifying IEMI Resilience of Critical Infrastructures **Thorsten Pusch** Fraunhofer INT, Germany
3:50pm - 4:20pm	**Coffee Break** Location: **Patio**
4:20pm - 5:50pm	**Fundamentals of Electromagnetic Compatibility (Part 3)** Location: **Auditorium** Session Chair: **Dr. Anne Roc'h**, Eindhoven University of Technology, The Netherlands Session Chair: **Dr. Philippe Besnier**, CNRS - UMR 6164 - IETR, France
	EMC in Power Electronics **Pierre-Etienne Lévy** ENS Paris-Saclay, Fr
	Grounding at System Level **Marco Klingler** Klingler International Consulting Services, France
4:20pm - 5:50pm	**EMC in Power Electronics: Principles of EMI Generation, Aggregation and Mitigation for Electrical Systems and Electrical Transport (Part 2)** Location: **Room 105** Session Chair: **Dr. Daria Nemashkalo**, University of Twente, The Netherlands Session Chair: **Dr. Mattia Simonazzi**, University of Bologna, Italy
	Pearson Random Walk: A Statistical Model for Aggregated EMI in Multi-Converter Systems **Erjon Ballukja** University of Twente, The Netherlands
	Emerging Filters for Time-Varying Power Electronics Applications **Tom Hartman** University of Twente, The Netherlands

	Filter Design for High-Speed Motor Drive Systems in Aerospace **Patrick Koch** University of Twente, The Netherlands
4:20pm - 5:50pm	**Ansys Industrial Forum (Part 2)** Location: **Room 106**
	AI Application for Electromagnetic Compatibility Analysis in Aeronautical Systems **Pierre Amblard**[1], **Adil El Abbazi**[2] [1]Thales; [2]Thales
	Optimization of High-Speed Links in Aeronautical Systems **Soazig Le Bihan**[1], **Adil El Abbazi**[2] [1]Thales; [2]Thales
	Electromagnetic Simulation in IoT Embedded System **Erica Burzi** SECO spa
4:20pm - 5:50pm	**Physical Layer Security against Compromising Electromagnetic Emanations (Part 2)** Location: **Room 107** Session Chair: **Prof. Yu-ichi Hayashi**, Nara Institute of Science and Technology, Japan Session Chair: **Prof. Frank Leferink**, University of Twente - THALES, The Netherlands
	FFT-based TEMPEST receiver for compromising emanations measurements **Patrick Mayer** Rohde & Schwarz
	TEMPEST radiated emission measurements below noise using a reverberation chamber **Frank Leferink** University of Twente and THALES Netherlands
	Side-channel attack: Introduction and recent trends **Naofumi Homma** Tohoku University
	On-Chip Side-Channel Measurements, Simulation and Assessments **Makoto Nagata** Kobe University
4:20pm - 5:50pm	**Effectively Addressing Measurement Uncertainty in Electromagnetic Compatibility Testing (Part 2)** Location: **Room 108** Session Chair: **Janet O'Neil**, ETS-Lindgren, United States of America
	Uncertainty Propagation and Sensitivity Analysis Using Polynomial Chaos Theory **Karol Niewiadomski** University of Twente, The Netherlands
	Measurement Uncertainty of HEMP and Other HPEM Testing Procedures **Sven Fisahn** Bundeswehr Research Institute for Protective Technologies and CBRN Protection, Germany
4:20pm - 5:50pm	**IEMI (Intentional Electromagnetic Interference) Risk Management for Critical Infrastructures (Part 3)** Location: **Room 109** Session Chair: **Dr. Marian Lanzrath**, Fraunhofer INT, Germany Session Chair: **Dr. Sven Fisahn**, Bundeswehr Research Institute for Protective Technologies and CBRN Protection (WIS), Germany

	Impact of IEMI Threats on Automotive Systems for Autonomous Driving Applications **Christine Mack** HSU Hamburg, Germany
	National Protection of Critical Infrastructure **Carlos Romero** Armasuisse, Switzerland
	HPEM-Detection for Protection of Critical Infrastructures – Concepts and Applications **Christian Adami** Fraunhofer INT, Germany
	HEMP Filter Design Principles **Thomas Chau** MPE, United Kingdom
6:00pm - 11:00pm	**IEEE Women in Engineering Social Event**

Tuesday, September 2nd, 2025

Short program

8:00am	**Registration** Location: **Patio**			
8:30am - 6:00pm	**Exhibition** Location: **Patio**		**Silent Room for Personal Work** Location: **Room 109**	
9:00am - 9:30am	**Opening Ceremony** Location: **Auditorium**			
9:30am - 10:50am	**Plenary Session** Location: **Auditorium**			
10:50am - 11:20am	**Coffee Break** Location: **Patio**			
11:20am - 12:50pm	**Power Systems, Power Quality, Power Electronics, Smart Grids (Part 1)** Location: **Auditorium**	**ESD** Location: **Room 105**	**Aeronautics and Space Systems** Location: **Room 106**	**Artificial Intelligence and Machine Learning in EMC** Location: **Room 108**
12:50pm - 2:20pm	**Lunch** Location: **Patio**			
1:00pm - 1:50pm	**Shielding Standards Continuity Working Group and IEEE 299/299.1 Meeting** Location: **Room 107**		**IEEE EMC Society Open Meeting** Location: **Room 116**	
2:20pm - 3:50pm	**Power Systems, Power Quality, Power Electronics, Smart Grids (Part 2)** Location: **Auditorium**	**Lightning** Location: **Room 105**	**Special Session: EMC and Radio-Astronomy** Location: **Room 106**	**Measurement Techniques (Part 1)** Location: **Room 108**
2:20pm - 4:20pm	**Meet the Experts (#1)** Location: **Booth 17**			
3:50pm - 4:20pm	**Coffee Break** Location: **Patio**			
4:20pm - 5:50pm	**Power Systems, Power Quality, Power Electronics, Smart Grids (Part 3)** Location: **Auditorium**	**Reliability, Ageing and Obsolescence in EMC** Location: **Room 105**	**Intentional EMI & EMP, High Power Electromagnetics (Part 1)** Location: **Room 106**	**Special Session: EMC and AI: The Superhero Duo in Action** Location: **Room 108**
6:00pm - 9:00pm	**Welcome Reception** Location: **Patio**			
6:30pm - 11:00pm	**IEEE Young Professionals Social Event**			

Tuesday, September 2nd, 2025 : Detailed program

8:00am	**Registration** Location: **Patio**
8:30am - 6:00pm	**Exhibition** Location: **Patio**
8:30am - 6:00pm	**Silent Room for Personal Work** Location: **Room 109**
9:00am - 9:30am	**Opening Ceremony** Location: **Auditorium**
9:30am - 10:50am	**Plenary Session** Location: **Auditorium** Session Chair: **Dr. Lionel Pichon**, Génie électrique et électronique de Paris, France Session Chair: **Prof. Mohammed Ramdani**, ESEO, France
	9:30am - 10:10am **Artificial Intelligence: Transforming the Engineering Landscape** **Alexandre Briot** Valeo, France
	10:10am - 10:50am **Toward Sustainable Power Electronics Technology, State of the Art and Perspectives** **Jean-Christophe Crébier** G2Elab, France
10:50am - 11:20am	**Coffee Break** Location: **Patio**
11:20am - 12:50pm	**Power Systems, Power Quality, Power Electronics, Smart Grids (Part 1)** Location: **Auditorium** Session Chair: **Prof. Stephan Frei**, TU Dortmund University, Germany Session Chair: **Prof. Robert Smolenski**, University of Zielona Gora, Poland
	Comparative Analysis of CM Interference of a Buck-Converter for Different Transistor Technologies in Frequency and Time Domain **Maximilian Lemke, Jens Aigner, Tobias Dörlemann, Maximilian Ambaum, Stephan Frei** TU Dortmund University, Germany
	A Method for Extracting DC Bias Characteristics of Power Modules for Full-Bridge Inverter **Jaewon Rhee, Sanguk Lee, Changmin Lee, Jiseong Kim, Hongseok Kim, Seungyoung Ahn** Korea Advanced Institute of Science and Technology, Korea, Republic of (South Korea)
	Reduction of Common Mode Conducted EMI in GaN-Based Two-Switch Flyback Converters Using the Delay Compensation Technique **Alberto Barbaro, Erica Raviola, Franco Fiori** Electronics and Telecommunication Dpt. (DET) Politecnico di Torino, Turin Italy
	System-level Power Integrity Enhancement Based on the Voltage Regulator Behavior Model for High-Performance Computing System **Sanguk Lee[1], Seonghi Lee[1], Jiseong Kim[1], Yongho Lee[2], Seungki Nam[2], Sungwook Moon[2], Seungyoung Ahn[1]** [1]Korea advanced institute of science and technology, Korea, Republic of (South Korea); [2]Samsung Electronics Co. Ltd
11:20am - 12:50pm	**ESD** Location: **Room 105** Session Chair: **Prof. Jan Luiken ter Haseborg**, Technische Universit„t Hamburg, Germany Session Chair: **Prof. Frank Sabath**, WIS, Germany
	Spark Length and Spark Resistance Characterization for Air Breakdown Simulation Validation

	Yang Xu[1], Jennifer Kitaygorsky[2], David Pommerenke[1] [1]Graz University of Technology, Austria; [2]Electro Magnetic Applications, Inc. USA
	Opportunities to improve ESD protection simulation based on voltage-dependent dynamic model **Lucas Kemystetter[1,2], Fabrice Caignet[1], Guillaume Mejecaze[2], Alexandre Boyer[1], Frédéric Puybaret[2], François Ruffat[1]** [1]LAAS CNRS, France; [2]CEA GRAMAT, France
	Temperature dependence of Harmonic Distortion on TVS Structures **Gregor Florian Böhm[1], Leonhard Petzel[1], Steffen Holland[2], David Johannes Pommerenke[1]** [1]Graz University of Technology, Austria; [2]Nexperia GmbH Germany
	Efficient Approach for System-level ESD Simulation Including Secondary Discharge **Subin Jo[1], Jonghyuck Jung[1], Seungil Jeung[1], Sungjin Lee[1], Minsung Kim[2], Byungho Cho[2], Jaeyong Cho[1]** [1]Huwin, Korea, Republic of (South Korea); [2]SL corporation, Korea, Republic of (South Korea)
11:20am - 12:50pm	**Aeronautics and Space Systems** Location: **Room 106** Session Chair: **Dr. Marc Pous**, HE Space for ESA, The Netherlands Session Chair: **Prof. Ferran Silva**, UPC, Spain
	Time-Domain EMI Characterisation Methods for Subsurface Radar in Planetary Missions **Marc Pous[1], Pablo Corrales[2], Marco Nicoletto[3], Axel Junge[4]** [1]HE Space for ESA, the Netherlands; [2]European Test Services, the Netherlands; [3]Thales Alenia Space Italia, Italy; [4]European Space Agency (ESA), the Netherlands
	EMC ANALYSIS ON THE INTEGRATION OF AN ELECTRIC PROPULSION ARCHITECTURE **Michael Ridel, Houssem Chebbi, Samuel Bonnard, Michel beltramini** ONERA, France
	Analysis of Common-Mode Coupling Between Cables on Composite Aircraft Panels **Marcos Quílez, Ferran Silva** Universitat Politècnica de Catalunya, Spain
	Digital twins model of complete virtual BCI qualification for aeronautical products **Pierre AMBLARD[1,2], Tristan DUBOIS[2], Jean-Baptiste BEGUERET[2], Adil EL ABBAZI[1]** [1]Thales, France; [2]IMS laboratory - UMR 5218
11:20am - 12:50pm	**Artificial Intelligence and Machine Learning in EMC** Location: **Room 108** Session Chair: **Dr. Richard Xian-Ke Gao**, Institute of High Performance Computing, Singapore Session Chair: **Dr. Niek Moonen**, University of Twente, The Netherlands
	An Empirical Evaluation of Machine Learning for Anomaly Detection in Electromagnetic Compatibility **Pablo Ruiz-Morales[1,3], Klaas Pluvier[2,3], Dries Vanoost[2,3], Davy Pissoort[2,3], Mathias Verbeke[1,3]** [1]Declarative Languages and Artificial Intelligence (DTAI), M-Group, KU Leuven, Bruges, Belgium; [2]ESAT-WaveCore, M-Group, KU Leuven, Bruges, Belgium; [3]Flanders Make@KU Leuven, Belgium
	Machine Learning Supported Detection of Incoupling Interfering Signals Through Autoencoders **Ilda Cahani, Rebecca Ueltzen, Mohammed ElSayed, Erik Kampert, Marcus Stiemer** Helmut-Schmidt-University, Germany
	Graph Neural Network Assisted Decoupling Capacitor Optimization for Power Distribution Networks in Heterogeneous Integration **Wenzu Zhang[1], Richard Xian-Ke Gao[1], Enxiao Liu[1], Dingjie Lu[1], Jun Liu[1], Mihai D. Rotaru[2], Dutta Rahul[2], N. Sridhar[1]**

	[1]Institute of High Performance Computing, A*STAR, Singapore; [2]Institute of Microelectronics, A*STAR, Singapore
	LSTM-Based Anomaly Detection for Sensor Data Affected by Electromagnetic Interference **Rebecca Ueltzen, Ilda Cahani, Mohammed ElSayed, Erik Kampert, Marcus Stiemer** Helmut-Schmidt-University, Germany
12:50pm - 2:20pm	**Lunch** Location: **Patio**
1:00pm - 1:50pm	**Shielding Standards Continuity Working Group and IEEE 299/299.1 Meeting** Location: **Room 107** Session Chair: **Dr. Pavithrakrishnan Radhakrishnan**, Oklahoma State University, United States of America
1:00pm - 1:50pm	**IEEE EMC Society Open Meeting** Location: **Room 116** Session Chair: **Dr. Krzysztof Sieczkarek**, Lukasiewicz Research Network Ð Poznan Institute of Technology / IEEE EMC-S Polish Chapter, Poland
2:20pm - 3:50pm	**Power Systems, Power Quality, Power Electronics, Smart Grids (Part 2)** Location: **Auditorium** Session Chair: **Prof. Stephan Frei**, TU Dortmund University, Germany Session Chair: **Prof. Robert Smolenski**, University of Zielona Gora, Poland
	Reduction of Common Mode Interferences in Drive Systems via Advanced Modulation Techniques **Thomas Stoehr[1], Guido A. Rasek[2]** [1]Valeo eAutomotive Germany GmbH, Germany; [2]Valeo eAutomotive Germany GmbH, Germany
	Conducted Emissions in Motor Drive Systems: Excitation of Antenna Mode Currents in Shielded Power Cables **Fahimeh Sepehripour[1], Bernhard Wunsch[1], Enea Bianda[1], Ville Forsström[2]** [1]ABB Corporate Research, 5405 Baden, Switzerland; [2]ABB Oy Drives, 00381 Helsinki, Finland
	Computational Framework to Assess EMI of Grid-Connected Inverters as Function of Topology and PWM Scheme **Mehtab Hussain, Herbert Hackl, Hubert Berger, Bernhard Auinger** Silicon Austria Labs GmbH, Austria
	Electromagnetic Emissions Mechanisms below 30 MHz in High Voltage Power Switching **Yosuke Sakurai[1], Jordi Solé-Lloveras[2,5], Yasutoshi Yoshioka[3], Marco A. Azpúrua[2,5], Rik W. De Doncker[4]** [1]Device Development Dept. Semiconductors Business Group, Fuji Electric Co., Ltd., Nagano, Japan; [2]EMC Electromagnetic BCN, S.L., Barcelona, Spain; [3]Power System Control Research Dept. Corporate R&D Headquarters, Fuji Electric Co., Ltd., Tokyo, Japan; [4]Institute for Power Electronics and Electrical Drives, RWTH Aachen University, Aachen, Germany; [5]Grup de Compatibilitat Electromagnètica, Universitat Politècnica de Catalunya, Spain
2:20pm - 3:50pm	**Lightning** Location: **Room 105** Session Chair: **Prof. Frank Leferink**, University of Twente - THALES, The Netherlands Session Chair: **Dr. Lionel Pichon**, Génie électrique et électronique de Paris, France
	S-PEEC formulation for lightning current modeling in conductive plates : a parametric analysis **Danica Cvetkovic[1,2,3], Sébastien Lalléchère[1], Lionel Pichon[2], Pierre-Etienne Lévy[3]** [1]Safran Tech, France; [2]GeePs - CentraleSupélec; [3]SATIE - ENS Paris Saclay
	Validation of an EMT Model for Surge Protective Devices Against Triggered Lightning Field Data **Thomas Tsovilis[1], Alexandros Y. Hadjicostas[1], Georgios D. Peppas[2], Yijun Zhang[3], Shaodong Chen[4]**

	[1]Aristotle University of Thessaloniki, Greece; [2]Technical University of Crete, Greece; [3]Fudan University, China; [4]Institute of Tropical and Marine Meteorology, China
	Experimental Investigation of the 8/20 µs Impulse Current Level that Causes Transient Voltage Suppressor Diodes to Fail **Niki Gkonou[1], George Peppas[2], Evangelos Petrou[1], Thomas Tsovilis[1]** [1]Aristotle University of Thessaloniki, Greece; [2]Technical University of Crete
	Time Domain Modeling of Lightning Induced Disturbances in a Buried Shielded Cable **Nekhoul Bachir, Chikeur Hadjer** University of Jijel, Algeria
2:20pm - 3:50pm	**Special Session: EMC and Radio-Astronomy** Location: **Room 106** Session Chair: **Dr. Vladimir Mordachev**, Belarusian State University of Informatics and Radioelectronics, Belarus Session Chair: **Prof. Sergey Loyka**, University of Ottawa, Canada
	Estimation of the Electromagnetic Background Created by Low-Earth Orbit Satellites, Based on the Prediction of the Ground Area Traffic Capacity **Vladimir Mordachev, Dzmitry Tsyanenka** Belarusian State University of Informatics and Radioelectronics, Belarus
	Radiation-Tolerant RF Performance Enhancement of AlxGa1-xN Graded Composite Barrier GaN HEMTs for Radio Astronomy Applications **Ruihao Zhang, Fayu Wan** Nanjing University of Information Science and Technology, China, People's Republic of
	Interference Analysis of 5G NR on Radio Astronomy in the Upper 6 GHz Frequency Range: Mitigation Techniques and Strategies **Alexander Pastukh[1], Evgeny Devyatkin[1], Valery Tikhvinskiy[2], Aliaksandr Svistunou[3]** [1]Institute of Radio and Information System (IRIS), Austria; [2]International Information Technology University (IITU), Kazakhstan; [3]Belarusian State University of Informatics and Radioelectronics, Belarus
	Total levels of anthropogenic and natural microwave electromagnetic background in areas with intensive information servicing by constellations of low-orbit communication satellites **Vladimir Mordachev, Dzmitry Tsyanenka** Belarusian State University of Informatics and Radioelectronics, Belarus
2:20pm - 3:50pm	**Measurement Techniques (Part 1)** Location: **Room 108** Session Chair: **Prof. Jan Carlsson**, Provinn, Sweden Session Chair: **Prof. Stefan Dickmann**, Helmut Schmidt University, Germany
	Comparison of Distance Conversion Factors for H-field Emissions Limits **Jordi Solé-Lloveras[1,2], Marc García-Bermúdez[1], Yasutoshi Yoshioka[3], Marco A. Azpúrua[1,2], Ferran Silva[2]** [1]EMC Barcelona, EMC Electromagnetic BCN S.L., Spain; [2]Power System Control Research Department. Digital Innovation Laboratory. Fuji Electric Co., Ltd. Japan; [3]Grup de Compatibilitat Electromagnètica, Universitat Politècnica de Catalunya, Spain
	Considerations for Radiated Emissions Testing of Large Medical Equipment in the Frequency Range 1 – 6 GHz **Florian Hubert[1,3,4], Rob Kleihorst[2], Markus Stumpf[1], Stefan Blaess[1]** [1]Siemens Healthineers AG, Germany; [2]Philips Medical Systems Netherlands B.V; [3]Friedrich-Alexander-University Erlangen-Nuremberg, Germany; [4]IMTEK, University of Freiburg, Germany
	A Novel Approach for a Reference Radiator in Frequency Range above 1 GHz **Alexander Kriz** Seibersdorf Laboratories, Austria

	On the Estimation of Radiated Emissions from Common Mode Cable Currents **Suleyman Nokerov[2], Chynar Seytekova[2], Merdanmuhammet Yaranov[2], David Pommerenke[2], Sajjad Sadeghi[1]** [1]TU GRAZ, Austria; [2]Oguz han Engineering and Technology University of Turkmenistan, Ashgabat, Turkmenistan
2:20pm - 4:20pm	**Meet the Experts (#1)** Location: **Booth 17** Session Chair: **Dr. Charles JULLIEN**, Safran Electrical & Power, France
3:50pm - 4:20pm	**Coffee Break** Location: **Patio**
4:20pm - 5:50pm	**Power Systems, Power Quality, Power Electronics, Smart Grids (Part 3)** Location: **Auditorium** Session Chair: **Dr. Pierre-Etienne Lévy**, ENS Paris Saclay / SATIE, France Session Chair: **Prof. BERND DEUTSCHMANN**, Graz University of Technology, Austria
	Identify EMI Contributors in Circuit Simulation using Morris Sensitivity Analysis **Ko Odreitz, Bernd Deutschmann** Graz University of Technology, Austria
	Power Electronics Converters Impedance Characterization Device for Low Frequency EMI **Abduselam Hamid Beshir[1], Per Thaastrup Jensen[2], Pooya Davari[1]** [1]Aalborg University, Denmark; [2]FORCE Technology
	Comprehensive Performance Analysis of Three-Phase Four-Wire AC Filter from EV On-Board Charger through Measurement and 3D Simulation Techniques **Diana Eremyan[1], Anna Gheonjian[1], Zviadi Kutchadze[1], Roman Jobava[1], David Antonic[2]** [1]EMCoS LLC, Georgia; [2]Valeo, France
	Identification method for Gray-box model parameters of DC-DC converter **Mehyeddine SINGER, Arnaud VIDET, Nadir IDIR** L2EP, France
4:20pm - 5:50pm	**Reliability, Ageing and Obsolescence in EMC** Location: **Room 105** Session Chair: **Prof. Davy Pissoort**, KU Leuven, Belgium Session Chair: **Prof. Mohammed Ramdani**, ESEO, France
	Future Mobility Electromagnetic Reliability Study based on HPVC Degradation Evaluation with Electromagnetic Noise Analysis **Seokbae Moon[1], Byeongsoo Kim[1], Seungho Ahn[1], Youngduk Han[1], Hae Lyong Kim[2], Jae Sang Yoon[2]** [1]Hyundai Motors Group, Korea, Republic of (South Korea); [2]Korea Automotive Technology Institute, Republic of (South Korea)
	EMC Filter Drift Induced by Thermal Aging : Efficient Source Identification and Component Level Accelerated Aging Test **Matthieu Laidet[1,2], Alexandre Boyer[2,3], Julien Gazave[1], Sonia Ben Dhia[2,3]** [1]EDF Power Networ Lab, France; [2]LAAS CNRS, France; [3]INSA Toulouse, France
	Degradation Characteristics of EMI Suppression Film Capacitors Under Combined Electro-Thermal-Humidity Stress and Their Impact on EMI Filter Performance **Zhaoxin Wang[1], Bo Yao[1], Szymon Pasko[2], Xing Wei[1], Huai Wang[1], Pooya Davari[1]** [1]Aalborg University, Denmark; [2]Schaffner

	Investigation of Radiated EMI Evolution of High-power Density GaN-based Converter Under Short-circuit Accelerated Aging **Mohamed BELGUITH[1,2], Sonia ELOUED[1], Moncef KADI[2], Jaleleddine BEN HADJ SLAMA[1], Mahmoud HAMOUDA[1]** [1]LATIS- Laboratory of Advanced Technology and Intelligent Systems Université de Sousse, Ecole Nationale d'Ingénieurs de Sousse / Sousse, Tunisia; [2]Université Rouen Normandie / ESIGELEC / IRSEEM , 76000 Rouen, France
4:20pm - 5:50pm	**Intentional EMI & EMP, High Power Electromagnetics (Part 1)** Location: **Room 106** Session Chair: **Prof. Frank Sabath**, WIS, Germany Session Chair: **Dr. Marian Lanzrath**, Fraunhofer INT, Germany
	Estimating Characteristic Parameters of the Field radiated by an EMI Source **Frank Sabath** Bundeswehr Research Institute for Protective Technologies and CBRN Protection, Germany
	Extensive susceptibility analysis of a µC-servomotor chain to IEMI **Justin Sobas[1], Antoine Duguet[1,2], Geneviève Duchamp[1], Tristan Dubois[1]** [1]Univ. Bordeaux, CNRS, Bordeaux INP, IMS, UMR 5218, F-33400 Talence, France; [2]Thales SIX GTS France SAS, 4 Avenue des Louvresses, 92230 Gennevilliers, France
	Study on the damage effect of PIN limiter under high-power microwave injection **Ruxin Zheng[1], Shiping Tang[1,2], Zhongyuan Zhou[1,2], Chengjie Li[1]** [1]Research Center for Electromagnetic Environmental Effects, Southeast University, China; [2]Research Center for Electromagnetic Environmental Effects, Southeast University Suzhou Campus, China
	Dazzle Effect on Automatic Gain Control Circuits exposed to intentional RF pulsed interference **tom billaux[1], jeremy raoult[1], benjamin saggin[1], patrick hoffmann[2]** [1]Institut d'electronique et des sciences (IES), Montpellier, France; [2]CEA, Gramat, France
4:20pm - 5:50pm	**Special Session: EMC and AI: The Superhero Duo in Action** Location: **Room 108** Session Chair: **Dr. Stanislav Kovar**, Tomas Bata University in Zlin, Czech Republic Session Chair: **Dr. Dominik Mair**, University Innsbruck, Austria
	AI-Based Design and Optimization for Automotive High-Voltage Filters Focusing on Novel Cost-Effective Filter Structures **Nima Tashakor[1], Ben Esser[1], Bastian Arndt[1], Peter Olbrich[1], Jens Friebe[2], Artjom Avakian[1]** [1]Volkswagen AG, Germany; [2]Kassel University, Germany
	Frequency Response Estimation via Multi-Coefficient Surrogate Models of Rational Complex Functions **Patrick D. Gsöls[1,2,3], Yousteina Guirguis[1,2], Jan C. Hansen[1,2]** [1]Institute of Electronics, Graz University of Technology, Austria; [2]Christian Doppler Laboratory for EMC Aware Robust Electronic Systems, Austria; [3]Research Division Power Electronics, Silicon Austria Labs GmbH, Austria
	Development of an Electromagnetic Model for Non-Radiating Slotted Waveguides and Simulation-Based Metamodeling Strategies **Simon Marxgut, Daniel Baumgarten, Dominik Mair** Department of Mechatronics, University of Innsbruck, Austria
	The Impact of Loading on the Equivalence of Working Volumes in Reverberation Chambers **Anett Kenderes[1,2], Péter Tamás Benkő[2], Gyimóthy Szabolcs[1]** [1]Department of Broadband Infocommunications and Electromagnetic Theory, Budapest University of Technology and Economics, Budapest, Hungary; [2]Mobility Electronics/Electromagnetic Compatibility (ME/EMC5), Robert Bosch Kft., Budapest, Hungary

6:00pm - 9:00pm	**Welcome Reception** Location: **Patio**
6:30pm - 11:00pm	**IEEE Young Professionals Social Event**

Wednesday, September 3rd,2025

Short program

8:30am	**Registration** Location: **Patio**			
8:30am - 6:00pm	**Exhibition** Location: **Patio**		**Silent Room for Personal Work** Location: **Room 109**	
9:00am - 10:30am	**Automotive (Part 1)** Location: **Auditorium**	**Intentional EMI & EMP, High Power Electromagnetics (Part 2)** Location: **Room 105**	**Special Session: The Next Wave in Shielding (Part 1)** Location: **Room 106**	**Measurement Techniques (Part 2)** Location: **Room 108**
9:00am - 11:00am	**Discussion about possible actions for next EMC Europe editions** Location: **Booth 17**			
10:30am - 11:00am	**Coffee Break** Location: **Patio**			
11:00am - 12:30pm	**Automotive (Part 2)** Location: **Auditorium**	**Human Exposure to EM Fields, Medical Devices and Hospital Equipment** Location: **Room 105**	**Special Session: The Next Wave in Shielding (Part 2)** Location: **Room 106**	**Transmission Lines, Cables, Crosstalk & Coupling (Part 1)** Location: **Room 108**
12:30pm - 2:00pm	**Lunch** Location: **Patio**			
12:30pm - 2:20pm	**Poster Session 1** Location: **Patio**			
2:20pm - 3:50pm	**Automotive (Part 3)** Location: **Auditorium**	**Near-Field** Location: **Room 105**	**Special Session: The Next Wave in Shielding (Part 3)** Location: **Room 106**	**Transmission Lines, Cables, Crosstalk & Coupling (Part 2)** Location: **Room 108**
3:50pm - 4:20pm	**Coffee Break** Location: **Patio**			
4:20pm - 5:50pm	**Chambers and Cells (Part 1)** Location: **Auditorium**	**Semiconductors, PCB & Packaging (Part 1)** Location: **Room 105**	**Special Session: Electromagnetic Information Security Threats and Countermeasures (Part 1)** Location: **Room 106**	**Filtering (Part 1)** Location: **Room 108**
7:00pm - 11:30pm	**Gala Dinner** Location: **Les Pavillons de Bercy**			

Wednesday, September 3rd, 2025 : Detailed program

8:30am	**Registration** Location: **Patio**
8:30am - 6:00pm	**Exhibition** Location: **Patio**
8:30am - 6:00pm	**Silent Room for Personal Work** Location: **Room 109**
9:00am - 10:30am	**Automotive (Part 1)** Location: **Auditorium** Session Chair: **Dr. Frederic LAFON**, VALEO, France Session Chair: **Prof. David Thomas**, The University of Nottingham, United Kingdom
	Influence of HV-AN and Cage Filter in Emissions Measurements According to CISPR25 **Frederic LAFON[1], Remy Perrot[2], Xavier Bunlon[3]** [1]VALEO, France; [2]UTAC; [3]AMPERE
	HV eDrive System Impedance Analysis for Insertion Loss Characterization of Active EMI Filters **Faryal Baig[1,2], Guido A. Rasek[1], Georg Möhlenkamp[2], Magdalena Jurčević[3], Raul Blečić[3], Andro Broznić[3]** [1]Valeo eAutomotive Germany GmbH, Germany; [2]Brandenburgische Technische Universitat Cottbus-Senftenberg, Germany; [3]Rimac Technology d.o.o., Sveta Nedelja, Croatia
	Electric Vehicle HV-DC EMC Filter Loss due to Variations in AC-Load Configuration **Lennart P. P. B. Bohl[1], Guido A. Rasek[2], Mohamed Abdallah[3], Cheng Yang[1], Christian Schuster[1]** [1]Institut für Theoretische Elektrotechnik, Hamburg University of Technology (TUHH), Hamburg, Germany; [2]EMC Architecture Valeo Power Division, Valeo eAutomotive Germany GmbH, Erlangen, Germany; [3]Department of Electronics, Information and Bioengineering, Politecnico di Milano, Milan, Italy
	Evaluating Conducted Emissions up to 150 kHz from DC Electric Vehicle Charging Stations **Tycho van Leersum[1,2], Tom Hartman[1], Niek Moonen[1], Thijs van Wijk[2], Gert Rietveld[1,3]** [1]University of Twente, The Netherlands; [2]ElaadNL, The Netherlands; [3]VSL, The Netherlands
9:00am - 10:30am	**Intentional EMI & EMP, High Power Electromagnetics (Part 2)** Location: **Room 105** Session Chair: **Dr. Thorsten Pusch**, Fraunhofer INT, Germany Session Chair: **Prof. Francesca MARADEI**, Sapienza University of Rome, Italy
	Real-time jammer localization inside a building based on a machine learning approach **Paul Monferran[1], Jonathan Villain[1], Antonio Costanzo[2], Artur Nogueira de São José[3], Virginie Deniau[1], Christophe Gransart[1]** [1]Université Gustave Eiffel, France; [2]CERADE, ESAIP, France; [3]University of Brasilia, Faculty of Technology, Department of Electrical Engineering, Brazil
	Methodology for Studying a Localized and Non-Intrusive Pulsed Current Injection on an Active Powered System **Léo DURAND[1,2], Tristan DUBOIS[2], Jean-Michel VINASSA[2], Guillaume MEJECAZE[1], Laurine CUROS[1], Frédéric PUYBARET[1]** [1]CEA, DAM, CEA-Gramat F-46500, France; [2]IMS laboratory, CNRS UMR 5218, University of Bordeaux, 33405 Talence, France
	A Frequency-Domain Technique to Verify the Equivalent Area of a D-dot Sensor **Damien Gapillout[1], Theo Batista[1], Bertrand Daout[2], Marc Sallin[2]** [1]CEA DAM Gramat, France; [2]Montena Technology, Switzerland

	Protecting Sensors from IEMI: Shielding, Absorbers, and Mitigation Techniques **Louis Cesbron Lavau[1], Michael Suhrke[1], Marian Lanzrath[1], Peter Knott[2,3]** [1]Fraunhofer INT, Germany; [2]Fraunhofer FHR, Germany; [3]RWTH Aachen, Germany
9:00am - 10:30am	**Special Session: The Next Wave in Shielding (Part 1)** Location: **Room 106** Session Chair: **Dr. Anne Roc'h**, Eindhoven University of Technology, The Netherlands Session Chair: **Prof. Andy Marvin**, University of York, United Kingdom
	Uncertainty Estimation in H-field Time Domain Shielding Effectiveness Measurements **Julio Cesar Parra[1], Marco A. Azpúrua[1], Mireya Fernandez-Chimeno[1], Frank Leferink[2,3]** [1]Universitat Politecnica de Catalunya, Spain; [2]University of Twente, The Netherlands; [3]Thales Nederland, The Netherlands
	Limitations of Schelkunoff's Model for Near-Field Shielding in the Two-Parallel Loops Configuration **Lirim Koraqi[1,2], Pavithrakrishnan Radhakrishnan[1,2,3], Alvaro Camacho Mora[1,2], Tim Claeys[1], Johan Catrysse[1], Davy Pissoort[1,2]** [1]ESAT-WaveCore, M-Group, KU Leuven, Bruges Campus, Belgium; [2]Flanders Make@KU Leuven, Lommel, Belgium; [3]School of Electrical and Computer Engineering, Oklahoma State University, Stillwater, Oklahoma, USA
	FDTD Simulation Study on the Influence of a Board Level Shield's Walls on its Near-Field Shielding Effectiveness **Pavithrakrishnan Radhakrishnan[1,2,3], Lirim Koraqi[1,2], Alvaro Camacho Mora[1,2], Tim Claeys[1], Johan Catrysse[1], Davy Pissoort[1,2]** [1]ESAT-WaveCore, M-Group, KU Leuven, Bruges Campus, Belgium; [2]Flanders Make@KU Leuven, Lommel, Belgium; [3]School of Electrical and Computer Engineering, Oklahoma State University, Stillwater, Oklahoma, USA
	Shielding Effectiveness of Enclosures: Characterising the Transition from Reverberant to Resonant Behavior **Ali Ghaffarlouy Raef, Andrew C. Marvin, Simon J. Bale, Martin P. Robinson, John F. Dawson** University of York, United Kingdom
9:00am - 10:30am	**Measurement Techniques (Part 2)** Location: **Room 108** Session Chair: **Prof. Stefan Dickmann**, Helmut Schmidt University, Germany Session Chair: **Prof. Jan Carlsson**, Provinn, Sweden
	Practical Considerations of a Nested Spread Spectrum Modulation to Reduce Electromagnetic Emissions **Marco Pfeifer, Raphael Brugger, Bernd Deutschmann** Graz University of Technology, Austria
	Experimental Assessment of PMSM with Stator Winding Design Optimization to Enhance HF-EMC Performance in Aircraft Applications **Gregory Almeida[1], Arthur Piat[2], Sami Hliou[3], Sebastien Serpaud[1], Sylvain Girinon[4], Mathieu Couder[4]** [1]IRT saint Exupery, France; [2]SATIE, Université Paris-Saclay, ENS Paris-Saclay, CNRS, France; [3]SATIE, CY Cergy Paris University, Université Paris-Saclay, ENS Paris-Saclay, CNRS, France; [4]Liebherr Aerospace and Transportation, France
	Precise High-Frequency Impedance Measurements of Electric Vehicle Cylindrical Battery Cells Under Bias Current and at Various Temperatures **Magdalena Jurcevic, Andro Broznic, Raul Blecic** Rimac Technology, Croatia

	Time-Domain Measurement Method for Simultaneous Evaluation of 16 Measurement Points for Intrinsic-Testing of Electric Drive Systems **Michael Fuchs, Peter Olbrich, Bastian Arndt** Volkswagen AG, Germany
9:00am - 11:00am	**Discussion about possible actions for next EMC Europe editions** Location: **Booth 17** Session Chair: **Dr. Marc Ihle**, Ihle Engineering, Germany
10:30am - 11:00am	**Coffee Break** Location: **Patio**
11:00am - 12:30pm	**Automotive (Part 2)** Location: **Auditorium** Session Chair: **Prof. David Thomas**, The University of Nottingham, United Kingdom Session Chair: **Dr. Frederic LAFON**, VALEO, France
	Evaluating EMI Emission Challenges in Drive Inverter Testing using Electrical Machine Emulators **Michaela Gruber, Michael Beltle, Stefan Tenbohlen** University of Stuttgart, Germany
	Comparative Analysis of Conducted Emissions between 3-level and 2-level Inverters for Automotive Drives **Georgios Mademlis, Rishav Dubey, Varun Prasath Kannan, Helin Zhou, Kooros Moabber** Volvo Cars, Sweden
	Emission Measurements on Electric Vehicle Charing Stations using a Battery Impedance Emulator **Sebastian Jeschke[1], Holger Hirsch[1], Jan Weber[1], Jörg Bärenfänger[2]** [1]University Duisburg-Essen, Germany; [2]EMC Test NRW GmbH, Germany
	Impact of PWM Techniques on Conducted Emission in Three Phase DC-fed Motor Drives **Pooja Babu[1], Samarjeet Singh[1], Nicklas Christensen[2], Pooya Davari[1]** [1]Aalborg University, Denmark; [2]Danfoss Drives, Denmark
11:00am - 12:30pm	**Human Exposure to EM Fields, Medical Devices and Hospital Equipment** Location: **Room 105** Session Chair: **Dr. Zbigniew Joskiewicz**, Wroclaw University of Science and Technology, Poland Session Chair: **Dr. Ramiro Serra**, Eindhoven University of Technology, The Netherlands
	Human Occupancy Estimation with Human Body Mie Scattering Model in Reverberant Environments **Kashan Alidjan, Jean-Paul Linnartz, Hans-Jürgen Hartmann, Ramiro Serra** Eindhoven University of Technology, The Netherlands
	Full-Body vs. Head-Only Modeling: Full Wave Computational SAR and Adaptation of Corresponding ANN Models **Hamideh Esmaeili, Cheng Yang, Christian Schuster** Hamburg University of Technology, Germany
	EM Environment Through Different Lenses: ICU Room Measurements with Different Strategies **Sebastian Mauricio Salas Laurens[1], Bärbel van den Berg-de Bakker[2], Anne Roc'h[1]** [1]Eindhoven University of Technology, The Netherlands; [2]Medisch Spectrum Twente, The Netherlands
	Estimation of CM Input Impedance of a Structure Containing Medical Wearable Devices on Saline **Mohammad Khorramizadeh, Sander Bronckers, Anne Roc'h** Eindhoven University of Technology, The Netherlands

11:00am - 12:30pm	**Special Session: The Next Wave in Shielding (Part 2)** Location: **Room 106** Session Chair: **Prof. Andy Marvin**, University of York, United Kingdom Session Chair: **Dr. Anne Roc'h**, Eindhoven University of Technology, The Netherlands
	Effect of Inhomogeneous Cross-Plane Fiber Density of a CFRP Lamina on Shielding Effectiveness **Bálint Pintér[1,2], József Pávó[1], Péter Tamás Benkő[2]** [1]Budapest University of Technology and Economics, Hungary; [2]Robert Bosch Kft.
	Wideband One-Port Complex Permittivity Measurement of Flexible Shielding Materials Using a Radial Waveguide **Sadegh Barzegar[1], Mohammad Baharian[2], Anne Roc'h[1], Sander Bronckers[1]** [1]Eindhoven University of Technology, The Netherlands; [2]Tehran University, Iran
	Absorption Effects on Shielding Effectiveness Through Anechoic and Reverberation Chamber Measurements **Mehmet Faruk Cengiz[1], Hans Schipper[2], Marco A. Azpúrua[3], Robert Vogt-Ardatjew[1], Frank Leferink[1,2]** [1]University of Twente; [2]THALES Nederland B.V.; [3]Universitat Politècnica de Catalunya
	EMI Shielding Effectiveness Characterization of Carbon and Metal Filler FFF Polymer Composites **Subramaniam Saravana Sankar[1], Eliska Strajtova[1], Stanislav Kovar[1], Stanislav Gona[1], Marek Jurca[2]** [1]Faculty of Applied Informatics, Tomas Bata University in Zlin, Czech Republic; [2]CPS - Center for Polymer Systems, Tomas Bata University in Zlin, Czech Republic
11:00am - 12:30pm	**Transmission Lines, Cables, Crosstalk & Coupling (Part 1)** Location: **Room 108** Session Chair: **Prof. Dragan Poljak**, University of Split, Croatia Session Chair: **Dr. Mathias Magdowski**, Otto von Guericke University, Germany
	A Hybrid Modelling Approach for Evaluating the Emissions from a Powertrain **Gennaro Di Mambro[1], Sarah Sibilia[1,2], Damiano Capraro[1,2], Andrea Gaetano Chiariello[3], Domenico Capriglione[1], Antonio Maffucci[1]** [1]Dept. of Electrical and Information Engineering, University of Cassino and Southern Lazio, Italy; [2]E-lectra, Cassino, Italy; [3]Dept. of Engineering, University of Campania "L. Vanvitelli", Italy
	Hybridization of full-wave FDTD solver with a Multilevel Multiconductor Transmission Line solver with ngspice Interconnections **Alberto Gascón[1], Luis D. Angulo[1], Carlos J. Ramos-Salas[1], Ferran Silva[2], Marcos Quílez[2], Salvador G. García[1], Enrique Pascual[3]** [1]Universidad de Granada, Spain; [2]Universitat Politècnica de Catalunya, Spain; [3]Airbus DS, Madrid
	Common mode coupling of 3D-FDTD and MTL methods for in-situ cable bundle modeling **Christophe Guiffaut[1], Alain Reineix[1], Thomas Strub[2]** [1]CNRS, France; [2]AxesSim
	Accurate and Efficient Modelling of Wideband Wire Crosstalk With the Method of Moments **William R. Dommisse[1], Matthys M. Botha[1], Thomas Rylander[2], Jan Carlsson[3]** [1]Stellenbosch University, South Africa; [2]Chalmers University of Technology, Sweden; [3]Provinn AB, Sweden
12:30pm - 2:00pm	**Lunch** Location: **Patio**
12:30pm - 2:20pm	**Poster Session 1** Location: **Patio** Session Chair: **Dr. Marc Pous**, HE Space for ESA, The Netherlands Session Chair: **Adrien Voldoire**, Université Paris-Saclay, France

Analysis of Magnetic Field Penetration into a Slotted Rectangular Enclosure
Hyun Ho Park
The University of Suwon, Korea, Republic of (South Korea)

New 1 GHz Triaxial Cell for Shielding Effectiveness Measurement
Katherine Michiel Valencia Salas[1], Habib Boulzazen[2], Moncef Kadi[3], Fabien Ndagijimana[4]
[1]Tenneco, France; [2]Normandie Univ, UNIROUEN, ESIGELEC, IRSEEM; [3]Normandie Univ, UNIROUEN, ESIGELEC, IRSEEM; [4]Laboratoire G2Elab (UMR 5269), Université de Grenoble

An A-T-A-T Typed Frequency Selective Rasorber for C and X Bands Wireless Applications
Zhaoran Chen, Junjie Hu, Xiayuan Yao
North China Electric Power University, China, People's Republic of

Novel near-field numerical approach for radiated EMI modelling in GaN DC-DC converters
Mohamed BELGUITH[1,2], Sonia ELOUED[1], Moncef KADI[2], Jaleleddine BEN HADJ SLAMA[1], Mahmoud HAMOUDA[1]
[1]LATIS- Laboratory of Advanced Technology and Intelligent Systems Université de Sousse, Ecole Nationale d'Ingénieurs de Sousse Sousse, Tunisia; [2]Université Rouen Normandie / ESIGELEC / IRSEEM , 76000 Rouen, France

Effective Mitigation of Radiated Emissions from a Variable Speed Motor Drive
Bernhard Wunsch[1], Fahimeh Sepehripour[1], Enea Bianda[1], Ville Forsstrom[2]
[1]ABB Corporate Research, Switzerland; [2]ABB Oy Drives, Finland

Optimizing Antenna Placement for Improved Operational Performance of Antennas on a Warship
Can BAYSEFEROGULLARI, Mustafa URAL
ASELSAN Inc., Turkiye

EMC Characterization and Analysis of the Attitude Determination and Control System (ADCS) Board of a CubeSat Platform
Eduardo Muñoz Arredondo, Angel Serratos Miguel, Carlos Romo Fuentes, Rafael Guadalupe Chavez Moreno, Jorge Alfredo Ferrer Perez
Advanced Technology Unit FI UNAM

Modeling by Nonuniform Transmission-Line Approach of Grounding Electrodes Under Lightning Currents
Nekhoul Bachir, Boutadjine Ahmed
University of Jijel, Algeria

Impact of Current Monitoring Probes on ESD Waveforms: Experimental and EM Simulation Analysis
Panagiotis K. Papastamatis[1], Eleni P. Nicolopoulou[1], Nicoleta C. Ilia[1], Christos D. Nikolopoulos[2], Christos A. Christodoulou[1], Ioannis F. Gonos[1]
[1]School of Electrical and Computer Engineering, National Technical University of Athens, Greece; [2]Electronic Engineering, Hellenic Mediterranean University, Greece

EM Simulation of a SpaceWire cable for the calculation of the ESD induced shield current
Panagiotis A. Kamtsios, Eleni P. Nicolopoulou, Christos A. Christodoulou, Ioannis F. Gonos
School of Electrical and Computer Engineering, National Technical University of Athens, Greece

Factors Influencing the Field Exposure Assessment by WPM in Compliance with ICNIRP Guidelines
Shadi Rbat[1], David Pouhè[2]
[1]Mercedes-Benz AG, Germany; [2]University of Applied Science Reutlingen

Four-seasons monitoring of the local electromagnetic landscape inside the city park
Jolanta Karpowicz

	Central Institute for Labour Protection-National Research Institute (CIOP-PIB), Poland
	Comparison between neural network and kriging meta-model techniques on a crosstalk problem based on Kron's model **Florent DELAPORTE, Madjid MAHMOUDI, Thomas EUDES** Safran Electronic and Defense, France
	Electromagnetic Interference Caused by Rapid Switching of a DC-DC-Converter with GaN-HFETs **Marita Wendt[1], Erik Kampert[1], Jost Wendt[2], Ilda Cahani[1], Marcus Stiemer[1], Klaus F. Hoffmann[1], Stefan Dickmann[1]** [1]Helmut Schmidt University, Germany; [2]Senior Consultant, Germany
	Impact of Diode Variability on EM Immunity: Analysis with Measurement and Simulation **Kevin Loudiere[1], Rasila R. Hirani[2], Lakshmi N. Narra[3], Frederic Lafon[4]** [1]Valeo, France; [2]Valeo, India; [3]Valeo, India; [4]Valeo, France
	From Static to Dynamic: Modeling, Characterization, and Optimization of GaN HEMTs with EMC Considerations **Mohamed Foued Guellati[1,2], Zouheir Riah[2], Yacine Azzouz[2]** [1]Université de Rouen Normandie; [2]IRSEEM-ESIGELEC
	Comparative Study on Temperature Dependency of dV/dt, dI/dt and EMI Generation for IGBTs, Si and SiC MOSFETs **Peng Xue[1], Pooya Davari[2]** [1]Aalborg university, Denmark; [2]Aalborg university, Denmark
	EMC in DC Grids: Problematic Issues in the 2-150 kHz Bandwidth **Arun Dilip Khilnani[1], Angel Eduardo Pena Quintal[1], Mattia Simonazzi[2], Leonardo Sandrolini[2], Mark Sumner[1], Dave W P Thomas[1]** [1]The University of Nottingham, The UK; [2]University of Bologna, Italy
	A study on improvement of 3-phase inverter current sensing in the motor control system **Jungrae Ha, Minho Kim, Sangwoo Kim, Hyewon Lee, Younghoon Lee, Jonghak Jin** HL Mando, Korea, Republic of (South Korea)
	Common Mode Impedance Measurement of Three-Phase Motors Using Pulse Frequency Response Analysis **Hassan Khanbabaei Gardeshi, Anne Roch** Eindhoven University of Technology, The Netherlands
	Parasitic Mixing of Interference Signals in CMOS Circuits **Ralph Prestros, Christoph Brillinger, Bernhard Auinger** Silicon Austria Labs, Austria
	Designing a SMPS with Basically Zero Earth Current **Daniel Kübrich[1], Jeremias Kaiser[1], Thomas Dürbaum[1], Josef Deuringer[2]** [1]Friedrich-Alexander University Erlangen-Nürnberg (FAU), Germany; [2]Siemens Healthineers AG, Erlangen, Germany
	Sensitivity Analysis of Distributed PV-fed AC Distribution Network Supported with distributed Energy Storage Systems **Amr Madi[1], Ahmed Abbas Elserougi[2], Niek Moonen[3], Robert Smolenski[4]** [1]University of Twente; [2]Alexandria University; [3]University of Twente; [4]University of Zielona Gora
	High-Fidelity Electromagnetic Modeling for Multi-Output Transformer Design **Aladdin Kabalan, David Lechat** Schneider Toshiba Inverter Europe, France

	Research on the Threshold of Low-Noise Amplifier in High-Power Microwave Environment **Jin Wang[1], Zhongyuan Zhou[1,2], Guihua Wang[1,2], Chengjie Li[1], Jinjing Ren[1,2]** [1]The Research Center for Electromagnetic Environmental Effects, School of Mechanical Engineering, Southeast University,; [2]Electromagnetic Environmental Effects Laboratory of Southeast University Research Institute in Suzhou
	Derivation of Emission Limits up to 40 GHz in the Era of 5G New Radio Services **Yasushi Matsumoto, Ifong Wu, Koh Watanabe, Toshio Chiyojima, Kaoru Gotoh** National Institute of Information and Communications Technology, Japan
	Inter-laboratory Comparison for Military Conducted Immunity Test **OSMAN ÖZGÜR GÜRŞAHBAZ[1], SOYDAN ÇAKIR[1], ERDEM AKPINAR[1], ALİ KARAALİ[1], OSMAN ŞEN[2], BAHADIR TEKTAŞ[3], YASİN ÖZKAN[2]** [1]ASELSAN REHIS EMC Test Laboratory, Turkiye; [2]ASELSAN AGS EMC Test Laboratory, Turkiye; [3]TUBITAK UME, Electromagnetic Laboratory, Turkiye
	Novel Calibration Approach for Inductive Probes - Impedance Measurement in Mixed Mode Parameters **Altan Akar, Felix Sorge** Technische Universität Braunschweig, Germany
	Comparison of Uncertainty Evaluation Methods: An Application to D-dot Sensor Calibration **Theo Batista, Damien Gapillout** CEA DAM Gramat, France
	Electromagnetic Characterization of sUAVs Through Polarimetric Radar Cross-Section Analysis **Max Rosenthal, Ralf Vick** Otto von Guericke University, Germany
	Concept of improving field distribution using stirrers in RFID systems - experimental measurements in EMC semi-anechoic chamber **Krzysztof Sieczkarek, Adam Mackowiak, Tomasz Warzynski, Agnieszka Swiatek, Jozef Wojciechowski, Xing-Chang Wei** Lukasiewicz - Poznan Institute of Technology / IEEE EMC-S / EMC Pro
	The Role of Stirrer Fixture Design in a Reverberation Chamber Converted from a Shielded Enclosure **Anett Kenderes[1,2], Csaba Bártfai[2], Péter Tamás Benkő[2], Balázs Soós[2], Szabolcs Gyimóthy[1]** [1]Department of Broadband Infocommunications and Electromagnetic Theory, Budapest University of Technology and Economics, Budapest, Hungary; [2]Mobility Electronics/Electromagnetic Compatibility (ME/EMC5), Robert Bosch Kft., Budapest, Hungary
2:20pm - 3:50pm	**Automotive (Part 3)** Location: **Auditorium** Session Chair: **Dr. Marco KLINGLER**, Klingler International Consulting Services, France Session Chair: **Dr. Tom Hartman**, University of Twente, The Netherlands
	Experimental Study on the Effect of Grounding Conditions of DUT and Link-Partner of Automotive Ethernet 100BASE-T1 on BCI Test **Teppei Ikeda[1], Yusuke Yano[1,2], Koji Ichikawa[2], Osami Wada[2], Jianqing Wang[1,2]** [1]Nagoya Institute of Technology; [2]Center for Future Communications Research, Nagoya Institute of Technology
	Investigation and Modelling of Bulk Current Injection Setups with Shielded Cables and Different Terminal Conditions for Virtual Testing **Manuel Mikschl, Reinhard Stolle** Technical University of Applied Sciences Augsburg, Germany

	RI Testing of the OBU Electronic Components and Vehicle-Level **Hyok Lee, Seung-Gon Park** KOREA AUTOMOTIVE TECHNOLOGY INSTITUTE, Korea, Republic of (South Korea)
	Predicting Induced Voltage on PCB Traces in Radiated Immunity Tests with 2D simulators **Priscila Fernandez-Lopez, Kevin Loudiere, Marine Stojanovic, Frederic Lafon** Valeo, France
2:20pm - 3:50pm	**Near-Field** Location: **Room 105** Session Chair: **Prof. Carlo Carobbi**, Universita' degli Studi di Firenze, Italy Session Chair: **Prof. Ferran Silva**, UPC, Spain
	Localizing Harmonics Source On Large Conductor Based on Near-field Scanning **Rui Mi[1], Mehdi Gholizadeh[1], Jin Min[2], David David Pommerenke[1]** [1]Graz University of Technology, Austria; [2]Amber Precision Instruments, USA
	Weighted-Correlation Near-Field Scanning for Far-Field Radiation Source Identification **Yuting Xie, Ling Zhang, Da Li, Er-Ping Li** Zhejiang University, China
	Investigating the Challenges of Near-Field to Far-Field Transformation at Low Frequencies in Electromagnetic Compatibility Testing **Sajjad Sadeghi[1], Mehdi Gholizadeh[2], Jin Min[3], David Pommerenke[4]** [1]TU GRAZ, Austria; [2]TU GRAZ, Austria; [3]Amber Precision Instruments, CA, USA; [4]TU GRAZ, Austria
	Deep Learning-Assisted Phaseless Near-Field Transformation for Accelerating Near-Field Scanning **Dong-Hao Han[1], Xing-Chang Wei[1], Krzysztof Sieczkarek[2]** [1]College of Information Science and Electronic Engineering, Zhejiang University, P. R. China; [2]EMC Laboratory, Lukasiewicz - Poznan Institute of Technology, Poland
2:20pm - 3:50pm	**Special Session: The Next Wave in Shielding (Part 3)** Location: **Room 106** Session Chair: **Dr. Anne Roc'h**, Eindhoven University of Technology, The Netherlands Session Chair: **Prof. Andy Marvin**, University of York, United Kingdom
	Impact of Filter Placement on the Shielding Effectiveness of a Board-Level Shield **Alvaro Camacho Mora[1,2], Lirim Koraqi[1,2], Pavithrakrishnan Radhakrishnan[1,2,3], Davy Pissoort[1,2], Tim Claeys[1]** [1]ESAT-WaveCore, M-Group, KU Leuven, Bruges Campus, Belgium; [2]Flanders Make@KU Leuven, Lommel, Belgium; [3]School of Electrical and Computer Engineering, Oklahoma State University, Stillwater, Oklahoma, USA
	Assessing Board Level Shielding Integrity, Measurement Discrepancies and Defect Identification **Eliska Strajtova, Subramaniam Saravana Sankar, Stanislav Kovar** Tomas Bata University in Zlin, Czech Republic
	A Hybrid Measurement Setup for Evaluating the Shielding Effectiveness of Small Enclosures in a Reverberation Chamber from 200 MHz to 10 GHz **Zhao CHEN[1], Johan Catrysse[1], Tim Claeys[1], Davy Pissoort[1,2]** [1]ESAT-WaveCoRE, M-Group, KU Leuven, Belgium; [2]Flanders Make, KU Leuven, Belgium
	Investigation of Characteristic Impedance of Installations with Twisted Pairs **Furkan Sahin, Sander Bronckers, Anne Roc'h** Tu/e, The Netherlands

2:20pm - 3:50pm	**Transmission Lines, Cables, Crosstalk & Coupling (Part 2)** Location: **Room 108** Session Chair: **Dr. Mathias Magdowski**, Otto von Guericke University, Germany Session Chair: **Prof. Dragan Poljak**, University of Split, Croatia
	Modeling and Characterization of Near Field Coupling Between a Noise Source and a Wire **Martin Humeau[1,2,3], Mohamed Ghjiawad Congo[1,2], Mohsen Koohestani[1,4], David Boudikian[3], Richard Perdriau[1,4], Marine Stojanovic[3], Frédéric Lafon[3], Mohamed Ramdani[1,4]** [1]Ecole Supérieure d'Électronique de l'Ouest (ESEO), Angers 49107, France; [2]Institut National des Sciences Appliquées (INSA), Université de Rennes, Rennes 35708, France; [3]Valeo, Ecouflant 49000, Bobigny 93012, Créteil 94000, France; [4]Institut d'Electronique et des Technologies du numéRique (IETR), Rennes 35042, France
	A Comparative Study on the Equivalent Coupling Surface Determination of a Film Capacitor Using Closed TEM, Open TEM, and GTEM Cells **Mohamed Ghjiawad CONGO[1,2], Martin HUMEAU[1,2,3], Mohsen KOOHESTANI[1,4], Marine STOJANOVIC[3], Richard PERDRIAU[1,4], Frédéric LAFON[3], Mohamed RAMDANI[1,4]** [1]Ecole Supérieure d'Electronique de l'Ouest (ESEO), Angers 49107 , France; [2]Institut National des Sciences Appliquées (INSA), Université de Rennes, Rennes 35708, France; [3]VALEO, Ecouflant 49000, Créteil 94000, France; [4]Institut d'Electronique et des Technologies du numéRique (IETR), Rennes 35042, France
	Extraction of the Equivalent Coupling Surface of a capacitor mounted on a PCB using Near-Field Scan **Dennis Wanyoike[1], Alexandre Boyer[2], Sebastien Serpaud[3]** [1]IRT Saint Exupery - Toulouse, France; [2]Laboratoire d'analyse et architecture des systèmes - LAAS-CNRS; [3]L'institut national des sciences appliquées de Toulouse (INSA Toulouse)
	Simulink-Based Analysis of Plane Wave Coupling to a Transmission Line with Non-Linear Terminations **Satanika Lowe, Mathias Magdowski, Ralf Vick** Otto Von Guericke University Magdeburg, Germany
3:50pm - 4:20pm	**Coffee Break** Location: **Patio**
4:20pm - 5:50pm	**Chambers and Cells (Part 1)** Location: **Auditorium** Session Chair: **Dr. Guillaume Andrieu**, XLIM laboratory, University of Limoges, France Session Chair: **Dr. Ramiro Serra**, Eindhoven University of Technology, The Netherlands
	On the Time Domain Plane Wave Model for Single Carrier Pulse Response in Reverberation Chambers **Francesco Pio Cecca, Max Rosenthal, Mathias Magdowski, Ralf Vick** OVGU Magdeburg, Germany
	Evaluation of electrical fields in reverberation chambers using the Chi distribution **Kristian Karlsson[1], Henrik Toss[1], Björn Bergqvist[2]** [1]RISE Research Institutes of Sweden, Sweden; [2]Volvo Car Corporation, Sweden
	Unbiased Estimation of Reverberation Chamber Quality Factor Using Frequency Sweep Only **Damien QUENSON[1], Philippe BESNIER[2], Frédéric LAGO[1], Quentin SIMON[2], Xavier CASTEL[2]** [1]Safran Electronics & Defense, F 95610 Eragny-sur-Oise, France; [2]Univ Rennes, INSA Rennes, CNRS, CentraleSupélec, Nantes Université, IETR UMR 6164, F 35000 Rennes, France
	Impact of Asynchronous Stirring on the Estimation of Field Homogeneity in Mode-Stirred Reverberation Chambers **Carlo Carobbi[1], Ramiro Serra[2]** [1]Università di Firenze, Italy; [2]Eindhoven University of Technology, the Netherlands

4:20pm - 5:50pm	**Semiconductors, PCB & Packaging (Part 1)** Location: **Room 105** Session Chair: **Prof. Richard Perdriau**, ESEO, France Session Chair: **Prof. Franco Fiori**, Politecnico di Torino, Italy
	Semiconductor-Focused Simulation Environment for Emitted Noise Sensitivity of MOSFET Parameters **Robert Kragl[1], Steffen Beushausen[1], Karl Oberdieck[1], Konstantin Spanos[1], Ingmar Kallfass[2]** [1]Robert Bosch, Germany; [2]University of Stuttgart, Germany
	Susceptibility to RFI of Monolithic GaN Current Sources **Filippo Carastro[1], Davide Lena[2], Franco Fiori[1]** [1]Politecnico di Torino, Italy; [2]STMicroelectronics, Italy
	The Influence of Ionizing Radiation on the Electromagnetic Immunity of a Bandgap Reference **Nikolaus Juch[1], Alicja Michalowska-Forsyth[1], Daniel Kircher[1,2], Bernd Deutschmann[1]** [1]Institute of Electronics, Graz University of Technology, Austria; [2]Christian Doppler Laboratory for EMC Aware Robust Electronic Systems
	Simulation of an IC Level Radiated Immunity Portable Transmitter Test **Aymen BEN SAADA, Renaud Gillon, Patricia Joris** Melexis Technologies N. V., Belgium
4:20pm - 5:50pm	**Special Session: Electromagnetic Information Security Threats and Countermeasures (Part 1)** Location: **Room 106** Session Chair: **Prof. Frank Leferink**, University of Twente - THALES, The Netherlands Session Chair: **Prof. Yu-ichi Hayashi**, Nara Institute of Science and Technology, Japan
	Impact of Triggering-Probe-Connection on Evaluating Side-Channel Information Leakage from Cables **Daisuke Hamamoto[1], Masaki Himuro[1], Kengo Iokibe[1], Yosihtaka Toyota[1], Noriaki Kawanishi[2]** [1]Okayama-Univ, Japan; [2]GopherTec Inc., Japan
	Multiband pixel colour classification from HDMI emissions **Dimitrije Erdeljan, Markus G. Kuhn** University of Cambridge, United Kingdom
	Diode-Based Multi-Trojan RF Retroreflector Attack **Pierre Granier, Marie-Aïnhoa Nicolas, Jordane Lorandel, Christophe Moy, Philippe Besnier, Matthieu Davy, François Sarrazin** IETR, France
	A Countermeasure Against Eavesdropping on a Display Using Time-Varying Frequency-Selective Shielding **Koichi Furuya, Tsuyoshi Kobayashi, Yoshiyuki Kusano, Eiji Taniguchi** Mitsubishi Electric Corporation, Japan
4:20pm - 5:50pm	**Filtering (Part 1)** Location: **Room 108** Session Chair: **Prof. Stephan Frei**, TU Dortmund University, Germany Session Chair: **Dr. Bertrand Revol**, SAFRAN, France
	A Practical Survey on Multi-Objective Optimization of EMI Filters **Róbert Orvai[1,2], János Hamar[1], Márk Csörnyei[2]** [1]Budapest University of Technology and Economics; [2]Robert Bosch Kft.
	Two-inputs, Two-outputs (TITO) active filter **Amina GAHFIF[1], Pierre-Etienne LÉVY[1], Marwan ALI[2], Bertrand REVOL[2], François COSTA[1]**

	[1]SATIE, France; [2]SAFRAN
	Active Damping Control Design for Single-phase PFC Performance Enhancement in Supra-harmonics Range **Shuting Li[1], Halime Hizarci[1], Dinesh Kumar[2], Abduselam Hamid Beshir[1], Pooya Davari[1]** [1]Aalborg University, Denmark; [2]Danfoss Drives A/S, Denmark
	Digital Active CM EMI Suppression of a DC-DC Converter with Synthesized Switching-Slope Dependent Cancellation Pulses **Jens Aigner, Maximilian Lemke, Maximilian Ambaum, Tobias Dörlemann, Stephan Frei** TU Dortmund University, Germany
7:00pm - 11:30pm	**Gala Dinner** Location: **Les Pavillons de Bercy**

Thursday, September 4th, 2025

Short program

8:30am	**Registration** Location: **Patio**			
8:30am - 6:00pm	**Exhibition** Location: **Patio**		**Silent Room for Personal Work** Location: **Room 109**	
9:00am - 10:30am	**Special Session: EMC in Electrification of Aircraft (Part 1)** Location: **Auditorium**	**Semiconductors, PCB & Packaging (Part 2)** Location: **Room 105**	**Special Session: Electromagnetic Information Security Threats and Countermeasures (Part 2)** Location: **Room 106**	**Shielding & Gasketing (Part 1)** Location: **Room 108**
9:00am - 11:00am	**Meet the Experts (#2)** Location: **Booth 17**			
10:30am - 11:00am	**Coffee Break** Location: **Patio**			
11:00am - 12:30pm	**Special Session: EMC in Electrification of Aircraft (Part 2)** Location: **Auditorium**	**Special Session: Wireless Power Transfer Systems and their Impact on EMC and EMF Safety (Part 1)** Location: **Room 105**	**Railway Systems** Location: **Room 106**	**Shielding & Gasketing (Part 2)** Location: **Room 108**
12:30pm - 2:00pm	**Lunch** Location: **Patio**			
12:30pm - 2:20pm	**Poster Session 2** Location: **Patio**			
2:20pm - 3:50pm	**Measurement Techniques (Part 3)** Location: **Auditorium**	**Special Session: Wireless Power Transfer Systems and their Impact on EMC and EMF Safety (Part 2)** Location: **Room 105**	**Filtering (Part 2)** Location: **Room 106**	**Shielding & Gasketing (Part 3)** Location: **Room 108**
3:50pm - 4:20pm	**Coffee Break** Location: **Patio**			
4:20pm - 6:15pm	**Chambers and Cells (Part 2)** Location: **Auditorium**	**Computational Electromagnetics** Location: **Room 105**	**Filtering (Part 3)** Location: **Room 106**	**Transmission Lines, Cables, Crosstalk & Coupling (Part 3)** Location: **Room 108**

Thursday, September 4th, 2025 : Detailed program

8:30am	**Registration** Location: **Patio**
8:30am - 6:00pm	**Exhibition** Location: **Patio**
8:30am - 6:00pm	**Silent Room for Personal Work** Location: **Room 109**
9:00am - 10:30am	**Special Session: EMC in Electrification of Aircraft (Part 1)** Location: **Auditorium** Session Chair: **Patrick Koch**, University of Twente, The Netherlands Session Chair: **Dr. Jesper Lansink Rotgerink**, Royal Netherlands Aerospace Centre, The Netherlands
	Crosstalk between HV link and environment: EMC Challenges for aircraft hybrid or electric propulsion **Charles JULLIEN, Sebastien LE GALL, Thomas COLLETER, Mackenzie PANDALEON** Safran Electrical & Power, France
	Sensitivity Analysis for EMC and Thermal Optimization in Power Electronic Circuits **Karol Niewiadomski[1], Patrick Koch[1], Niek Moonen[1], Mark Gerber[2]** [1]Radio Systems, University of Twente, The Netherlands; [2]Technology base, Aeronamic, The Netherlands
	EMI Filter Design for High-Speed Inverter Drives in All-Electric Aircraft **Patrick Koch[1], Niek Moonen[1], Mark Gerber[2], Frank Leferink[1,3]** [1]University of Twente, The Netherlands; [2]Aeronamic, The Netherlands; [3]Thales B.V., The Netherlands
	Modelling Serial Arcs in High Voltage DC Aircraft Networks **Jesper Lansink Rotgerink, Harmen Schippers** Royal Netherlands Aerospace Centre, The Netherlands
9:00am - 10:30am	**Semiconductors, PCB & Packaging (Part 2)** Location: **Room 105** Session Chair: **Prof. Franco Fiori**, Politecnico di Torino, Italy Session Chair: **Prof. Richard Perdriau**, ESEO, France
	Challenges in the EMC Characterization of a CIS Camera Module for Medical and Consumer Applications **Patrick Wiesenhofer[1], Dominik Kreindl[1,2], Bernhard Weiss[1], Thomas Bauernfeind[2], Christian Stockreiter[1]** [1]ams OSRAM AG, Austria; [2]Institute of Fundamentals and Theory in Electrical Engineering, Graz University of Technology, Austria
	EMC Analysis and Estimation Method in IoT Embedded System **Erica Burzi[1], Antea Perrotta[2], Laura Fabbri[1], Alessandro Pali[1]** [1]Seco Spa, Italy; [2]ANSYS Corp, Italy
	Investigation on the Susceptibility to RFI of High-Voltage Current Sensors **Franco Fiori** Politecnico di Torino, Italy
	A Combined Common Mode Choke and Transformer Component for Enhanced Miniaturization and Performance **Jianquan Lou[1], Alpesh Bhobe[2], Haiwen Lu[1]** [1]Cisco System (China) R&D Co. Ltd.; [2]Cisco Systems, Inc.

9:00am - 10:30am	**Special Session: Electromagnetic Information Security Threats and Countermeasures (Part 2)** Location: **Room 106** Session Chair: **Prof. Yu-ichi Hayashi**, Nara Institute of Science and Technology, Japan Session Chair: **Prof. Frank Leferink**, University of Twente - THALES, The Netherlands
	Modeling of Cryptographic Module with SoC FPGA for Side-Channel Leakage Simulation **Kengo iokibe, Soma Tanimoto, Hayato Chikamori, Masaki Himuro, Yoshitaka Toyota** Okayama University, Japan
	Clock-to-Clock Modulation Covert Channel **Mohamed Alla Eddine BAHI[1], Maria MENDEZ REAL[2], Erwan NOGUES[1], Maxime PELCAT[1]** [1]Univ Rennes, INSA Rennes, IETR - UMR 6164, Rennes, France; [2]Univ Bretagne-Sud, Lab-STICC - UMR CNRS 6285, Lorient, France
	Arbitrary Data Injection into CMOS Integrated Circuits via Dual-Wave Electromagnetic Irradiation **Masahiro Kinugawa[1], Yuichi Hayashi[2]** [1]The University of Fukuchiyama; [2]Nara Institute of Science and Technology (NAIST)
	Robustness Evaluation of Software-Jamming Countermeasure against Multivariate and Nonlinear Analysis **Taiki Kitazawa, Shohei Matsumoto, Yuichi Hayashi** Nara Institute of Science and Technology, Japan
9:00am - 10:30am	**Shielding & Gasketing (Part 1)** Location: **Room 108** Session Chair: **Prof. Valter Mariani Primiani, Università Politecnica delle Marche, Italy** Session Chair: **Dr. Zbigniew Joskiewicz**, Wroclaw University of Science and Technology, Poland
	Maximizing Shielding Effectiveness of Thin Time-Varying Dielectric Layer **Petr Kadlec, Elia Mattucci, Vojtěch Bednarský, Tomáš Doležal, Martin Štumpf** Brno University of Technology, Czech Republic
	Silver deposition on polymeric substrate for electromagnetic Board Level Shielding **Victor Mahaut[1,2], Tristan Dubois[1], Alexandrine Gracia[1], Wilson Maia[2]** [1]IMS laboratory, Talence, France; [2]Thales Research & Technology, Palaiseau, France
	Analytical Thickness Optimization for Microwave Graphene-Based Textile Absorbers Under Oblique Incidence **Alessandro Giuseppe D'Aloia, Marcello D'Amore, Alessio Tamburrano, Maria Sabrina Sarto** DIAEE - Sapienza University of Rome, Italy
	Electromagnetic Shielding Simulation with Injection Molded Carbon Fiber Reinforced Plastics **Philip Reitinger[1], Michaela Gruber[2], Torsten Müller[1], Michael Beltle[2], Christian Bonten[1]** [1]University of Stuttgart, Institut für Kunststofftechnik (IKT), Germany; [2]University of Stuttgart, Institut für Energieübertragung und Hochfrequenztechnik (IEH), Germany
9:00am - 11:00am	**Meet the Experts (#2)** Location: **Booth 17** Session Chair: **Dr. Diethard HANSEN**, EURO EMC SERVICE (EES) Dr. Hansen Consulting, Switzerland
10:30am - 11:00am	**Coffee Break** Location: **Patio**
11:00am - 12:30pm	**Special Session: EMC in Electrification of Aircraft (Part 2)** Location: **Auditorium**

	Session Chair: **Dr. Jesper Lansink Rotgerink**, Royal Netherlands Aerospace Centre, The Netherlands Session Chair: **Patrick Koch**, University of Twente, The Netherlands
	EMI Reduction in a Multi-converter Setup: Correlation Analysis using Pearson's Random Walk **Erjon Ballukja[1], Karol Niewiadomski[1], Patrick Koch[1], Niek Moonen[1], Jacek Bojarski[2], Mark Gerber[3]** [1]Radio Systems, University of Twente, The Netherlands; [2]Institute of Mathematics, University of Zielona Gora, Poland; [3]Technology base, Aeronamic, The Netherlands
	Extension of Random Walk Modelling of CM Current Harmonics in Multi-converter Setups **Karol Niewiadomski[1], Erjon Ballukja[1], Mattia Simonazzi[2], Leonardo Sandrolini[2], Jacek Bojarski[3]** [1]Radio Systems, University of Twente, The Netherlands; [2]Department of Electrical, Electronic, and Information Engineering, University of Bologna, Italy; [3]Institute of Mathematics, University of Zielona Gora, Poland
	Aircraft High Intensity Radio Frequency Qualification – New, Fast Stochastic Power Flow Benchmark versus FDTD Simulation **Paul Bremner, Weitao Dai, Arielle Frank** RobustPhysics, United States of America
	11:00am - 11:22am **CAN Bus Susceptibility to Emulated Electrical Inverter-Driven Air Propulsion System EMI** **Unai Aizpurua, Kevin Krakow, Tan Cuong Mach, Arne Pahl, Erik Kampert, Stefan Dickmann** Helmut-Schmidt-University, Germany
11:00am - 12:30pm	**Special Session: Wireless Power Transfer Systems and their Impact on EMC and EMF Safety (Part 1)** Location: **Room 105** Session Chair: **Prof. MAURO FELIZIANI**, Università degli Studi dell'Aquila, Italy Session Chair: **Dr. Silvano Cruciani**, Tor Vergata University of Rome, Italy
	Immunity of pacemakers near high power systems at 85 kHz **Chaïma Elharti[1,2,3], Lucien Hammen[4], Mohamed Bensetti[1,2], Lionel Pichon[1,2], Den Palessonga[1,2,3]** [1]Laboratoire de Génie Electrique et Electronique de Paris (GeePs), Sorbonne Université, CNRS, 75252, Paris, France; [2]Laboratoire de Génie Electrique et Electronique de Paris (GeePs), Université Paris-Saclay, CentraleSupélec, CNRS, 91192, Gif-sur-Yvette, France; [3]ESME Research Lab, 94200, Ivry-sur-Seine, France; [4]Laboratoire d'Electromagnétisme, Vibrations et Optique, Institut national de recherche et de sécurité (INRS), Vandoeuvre-lès-Nancy, France
	Influence of Chassis Materials and Human Postures on the EMF Safety of a Dynamic-WPT System for Automotive Applications **Valerio De Santis[1], Wassim Boumerdassi[1], Tommaso Campi[2], Mauro Feliziani[1]** [1]University of L'Aquila, Italy; [2]Sapienza University of Rome, Italy
	Laboratory WPT3 11kW Wireless Power Transfer System compliant to IEC 61980 Class B H-Field Limits based on Reference Designs **Maximilian Hollenbach, Christian Koker** ifak - Institut für Automation und Kommunikation e. V.
	Multi-objective Optimization of a WPT System for UAVs **Mohammed TERRAH[1,2,3], Mostafa-Kamel SMAIL[1,2,3], Lionel PICHON[1,2], Mohamed BENSETTI[1,2], Abdelhak GOUDJIL[3]**

	[1]Université Paris-Saclay, CentraleSupélec, CNRS, Group of electrical and electronic engineering of Paris (GeePs); [2]Sorbonne Université, CNRS, Group of electrical and electronic engineering of Paris (GeePs); [3]Institut Polytechnique des Sciences Avancées Paris (IPSA)
11:00am - 12:30pm	**Railway Systems** Location: **Room 106** Session Chair: **Dr. Kia Wiklundh**, FOI, Sweden Session Chair: **Dr. Virginie Deniau**, université Gustave Eiffel, France
	Modeling the Electromagnetic Influence of Traction Current on Audio-Frequency Track Circuits **Volodymyr Havryliuk** Ukrainian State University of Science and Technologyies, Ukraine
	Comparison of the susceptibilty of the GSM-Railway and the FRMCS communication protocols face to intentional interferences **Papa Boubacar SARR, Virginie DENIAU, Paul MONFERRAN** Université Gustave Eiffel, France
	Numerical Analysis and Experimental Validation of a Busbar for Railway Power Converters **Raffaele De Rosa[1], Antea Perrotta[2], Roberto Trani[1], Pasquale Nacca[1], Mario Porzio[1], Vincenzo Improta[1], Beniamino Cascone[1]** [1]Hitachi Rail STS Spa, Italy; [2]Ansys Inc, Canonsburg, USA
	Monitoring Electromagnetic Interference in the Automation of Urban Rail Transport **Tetiana Serdiuk, Maksym Serchenko, Artem Smirnov** Ukrainian State University of Science and Technologies, Ukraine
11:00am - 12:30pm	**Shielding & Gasketing (Part 2)** Location: **Room 108** Session Chair: **Prof. Tim Claeys**, KU Leuven, Belgium Session Chair: **Prof. Mohamed BENSETTI**, CentraleSupélec - GeePs, France
	Extension of the Shielding Effectiveness Method 'Wire Coupling' for Large Enclosures up to 44 GHz **Steffen Schulze[1], Saad Al-Hamid[2]** [1]Wuerth Elektronik eiSos GmbH, Waldenburg, Germany; [2]Chair for Electromagnetic Compatibility, Otto von Guericke University, Magdeburg, Germany
	Error Quantification in Multipoint Electromagnetic Field Measurements for Semi-Reverberant Environments **Ridvan Aba[1], Miguel Figueirinhas[1], Mehmet Faruk Cengiz[1], Robert Vogt-Ardatjew[1], Frank Leferink[1,2]** [1]University of Twente, Enschede, The Netherlands; [2]Thales Nederland B.V., Hengelo, The Netherlands
	Dynamic Range Improvement of Non Invasive Shielding Effectiveness Measurement Using a VIRC **Quentin Jacquet[1], Guillaume Andrieu[2], Philippe Besnier[3]** [1]Xlim / Manufacture Française des Pneumatiques Michelin; [2]Xlim; [3]INSA Rennes
	Numerical Modelling of the EMC Performance of Braided Cables for an Electric Vehicle **Daniel Santiago Jimenez Novoa[1,2,4], Mostafa Kamel Smail[1,2,3], Mohamed Bensetti[1,2], Lionel Pichon[1,2], Pascal Tremblay[4], Jean François Hayau[4]** [1]Laboratoire de Génie Electrique et Electronique de Paris, Université Paris-Saclay, CentraleSupélec, CNRS, 91192, Gif-sur-Yvette, France; [2]Laboratoire de Génie Electrique et Electronique de Paris, Sorbonne Université, CNRS, 75252, Paris, France; [3]Institut Polytechnique des Sciences Avancées Paris IPSA, 94200 Ivry-sur-Seine, France; [4]ACOME Romagny, 50140 Romagny Fontenay, France

12:30pm - 2:00pm	**Lunch** Location: **Patio**
12:30pm - 2:20pm	**Poster Session 2** Location: **Patio** Session Chair: **Prof. BERND DEUTSCHMANN**, Graz University of Technology, Austria Session Chair: **François Sarrazin**, University of Rennes, France
	The influence of floor absorption materials on the electromagnetic field distribution in semi-anechoic chambers for pre-compliance tests **Krzysztof Sieczkarek, Bartlomiej Nagorny, Tomasz Warzynski, Adam Mackowiak, Michal Rokossowski, Radoslaw Szczepanski** Lukasiewicz - Poznan Institute of Technology / IEEE EMC-S / EMC Pro
	Technique for Fast, Accurate Measurement of Complex Permittivity of EM Materials with Samples of Arbitrary Shape **Isabella Langdon, Martin Paul Robinson** University of York, United Kingdom
	PMC-based Heatsinks Design with Truncated Cone-shaped Pins to Reduce Unwanted Electromagnetic Radiations **Muhammet Hilmi Nisanci[1], Baha Kanberoglu[1], Francesco de Paulis[2]** [1]Sakarya University, Turkiye; [2]University of L'Aquila, Italy
	Modular Dual-Ridged Horn Antenna Design for EMC Testing in 14.9 to 44 GHz Range **Adam Tankielun[1], Shreyas Bharadwaj[1,2], Hans-Peter Bauer[3], Jens Medler[1], Maximilian Weinzierl[1]** [1]Rohde & Schwarz GmbH & Co KG, Germany; [2]Technische Universität Ilmenau, Germany; [3]Rohde & Schwarz, USA, Inc.
	Testing non-linearity and saturation of a RF current probe **Andrea Mariscotti[1], Michael Mayerhofer[2]** [1]University of Genova, Italy; [2]Tekbox Digital Solutions, Vietnam
	Low-Frequency Information Leakage Trough a Buck Converter Power Stage **Tristan Péchereau[1,2], Benoit Goral[1], Charles Joubert[2], Fabien Mieyeville[2], Bruno Allard[3]** [1]Thales SIX GTS France, France; [2]Universite Claude Bernard Lyon 1, INSA Lyon, Ecole Centrale de Lyon, CNRS, Ampère, UMR5005, France; [3]INSA Lyon, Universite Claude Bernard Lyon 1, Ecole Centrale de Lyon, CNRS, Ampère, UMR5005, France
	Aggregation of Low-Frequency Conducted Emissions in DC Grids with Wireless Power Transfer Chargers **Mattia Simonazzi[1], Leonardo Sandrolini[1], Andrea Mariscotti[2]** [1]University of Bologna, Italy; [2]University of Genoa, Italy
	Experimental Analysis of Interference in Mobile Communication Equipment Based on Noise Spectral Component **Koh Watanabe[1], Ifong Wu[1], Yasushi Matsumoto[1], Satoshi Tanaka[2], Makoto Nagata[2], Kaoru Gotoh[1]** [1]National Institute of Information and Communications Technology, Japan; [2]Graduate School of Science, Technology and Innovation, Kobe University, Japan
	Enhanced RF spectrum monitoring with SDR-based frequency-sweep methods **Mirela Sorecau[1,2], Emil Sorecau[1,2], Alina Bunea[3], Dan Neculoiu[3], Florin Popescu[4,5], Paul Bechet[1,5]** [1]Technical University of Cluj-Napoca; [2]Nicolae Bălcescu" Land Forces Academy; [3]National Institute for Research and Development in Microtechnologies; [4]National Defence University; [5]Robetech EMC Company

Rail to ground voltage assessment within the French railway framework: dealing with non-compliance in 25 kV alternating electrification
Juan-José MUNOZ, Habib OSMANI, Albane BRASSET, Achraf DSOUL
SNCF Réseau, France

Simulation of Poynting theorem in the time domain for HERO assessment
Alexandre Laisné, Loïc Millard, Thierry Renou
DGA TA, France

Effects on radio systems on military platforms using the EMC standard NRE04S or alternatives
Sara Linder[1], Kia Wiklundh[1], Karina Fors[1], Maria Elenius[1], Petter Gärdin[2]
[1]Swedish Defence Research Agency (FOI); [2]Swedish Armed Forces Communication and Information Systems Command (SwAF CISCOM)

Assessing a LED Driver's Aggregated Emissions Using Radiated Emissions Tests
Amr Madi[1], Matthias Mentzel[1], Patricia Joris[2]
[1]Melexis, Germany; [2]Melexis, Belgium

Effect of Corrosion and Durability Degradation on Electromagnetic Reliability of an Electrification Vehicle
Byung Su Kim[1], Seung Ho Ahn[1], Seok Bae Moon[1], Sung Woo Hong[1], Hae Lyong Kim[2], Jae Sang Yoon[2], Beom Jin Choi[2]
[1]Hyundai Motor Company, Korea, Republic of (South Korea); [2]Korea Automotive Technology Institute, Korea, Republic of (South Korea)

An EMI Filter for a Wide-Bandgap Traction Inverter: From the SPICE Model to its Characterization
Maurizio Tranchero[1], Paolo Santero[1], Christian Paulwitz[2], Stefan Weber[2]
[1]Ideas & Motion s.r.l., Italy; [2]TDK Electronics AG, Germany

Power Normalized Random Dipole Model as a Statistical Approach to Challenges in Radiated Emission Assessment
Joerg Petzold[1], Max Rosenthal[1], Ralf Vick[1], Xiaofeng Pan[2], Martin Aidam[2]
[1]Otto-von-Guericke-University, Germany; [2]Mercedes-Benz AG, Germany

Predictive EMI of Multi-sourcing Diodes in converter designs by DPT method
Yao PEI, David Boudikian
Valeo Lighting Division, France

Influence of Induction Motor Power Rating on EMI Noise in Grid-Fed Motor Drive Systems
Samarjeet Singh[1], Szymon Pasko[2], Dinesh Kumar[3], Christian Wolf Wolf[4], Pooya Davari[5]
[1]Aalborg University, Denmark; [2]Schaffner, Denmark; [3]Danfoss Drives, Denmark; [4]Grundfos A/S; [5]Aalborg University, Denmark

Broadband Interference Analysis and Suppression for Arbitrary Complex Structures Based on a Modal Full-Wave System Description
Philipp Herwigk, Marco Leone
Otto von Guericke University Magdeburg, Germany

Numerical Characterization of Rodent Exposure Imbalances in Large Reverberation Chambers
Antonio Faraone[1], Giorgi Bit-Babik[1], Kevin Sanderson[2], Paola Russo[3], Alfredo De Leo[3], Valter Mariani Primiani[3], Valerio De Santis[4]
[1]Motorola Solutions, Fort Lauderdale, United States; [2]University of Illinois, Urbana-Champaign, United States; [3]Università Politecnica delle Marche, Ancona, Italy; [4]University of L'Aquila, Italy

Test Vehicle For High Speed Serial Links Characterization Methodology up to 40GHz On Avionic Boards
Soazig Le Bihan[1,2], Tristan Dubois[2], Jean-Baptiste Begueret[2], Adil El Abbazi[1], Rémi Ferdinand[1], Clément Monel[1], Arthur Lacheray[1]
[1]THALES AVIONICS, Mérignac, FRANCE; [2]Laboratoire IMS, Talence, FRANCE

Importance of Parameter Initialization in the Co-Simulation of Emission in a TEM Cell using Time Windowing Waveform Relaxation
Md Moktarul Alam[1,2], Mohsen Koohestani[1,3], Mohamed Ramdani[1,3], Richard Perdriau[1,3]
[1]École Supérieure d'Électronique de l'Ouest (ESEO), Angers 49107, France; [2]Institut National des Sciences Appliquées, University of Rennes, 35708 Rennes, France; [3]Institut d'Electronique et des Technologies du Numérique (IETR), Rennes 35042, France

Experimental Evaluation of the Voltage/Current Conversion Factor of Transformer-Type AANs for 8-Wire Unscreened Balanced Pairs by Round Robin Test
Nozomi Miyake[1], Naoya Haraguchi[2], Fujio Amemiya[3], Nobuo Kuwabara[4], Hidenori Muramatsu[3]
[1]NEC Corporation, Japan; [2]FUJIFILM Business Innovation Corp.; [3]VCCI Council; [4]Kyushu Institute of Technology

A Tunable Magnetic Field Resonant Probe for High-Frequency Near-Field EMI Scanning
Suleyman Nokerov[2], Lucas Speckbacher[1], Gregor Steinbauer[1], Musab Hameed[1], David Pommerenke[1], Sajjad Sadeghi[1]
[1]TU GRAZ, Austria; [2]Oguz han Engineering and Technology University of Turkmenistan, Ashgabat, Turkmenistan

Analysis of Wind Farm Grounding Systems During a Direct Lightning Strike
Nekhoul Bachir, Maallem Wahiba
University of Jijel, Algeria

Comparison of Broadband Signals in Reverberation and Semi Anechoic Chambers
Martin Kurka[1], Jan Weber[1], Holger Hirsch[1], Christoph Schwing[2], Andreas Gierstorfer[3], Max Weber[1]
[1]Univeristät Duisburg-Essen, Power Transmission and Energy Storage, Duisburg, Germany; [2]EMC Test NRW GmbH, Dortmund, Germany; [3]BMW Group, Munich, Germany

Potential Detection of Periodical Stirring Patterns in a VIRC using Time-Domain Autocorrelation
Guillaume Andrieu[1], Nicolas Ticaud[2], Nicolas Roger[3]
[1]XLIM laboratory, University of Limoges, France; [2]Cisteme company, Limoges, France; [3]Jacques Dubois company, Barentin, France

Reverberation Chamber Design Optimization
Aneshka Bothma[1], Jacki Gilmore[2], Gidoen Wiid[3], Siyabulela Tshongweni[1]
[1]South African Radio Astronomy Observatory (SARAO), South Africa; [2]University of Stellenbosch; [3]Alphawave MNS

FDTD simulations of random boundaries
Jawad Ali[1], Luca Bastianelli[1,2], Emanuel Colella[1], Alfredo De Leo[1], Franco Moglie[1], Valter Mariani Primiani[1]
[1]Dipartimento di Ingegneria dell'Informazione, Università Politecnica delle Marche, Italy; [2]Dipartimento di Ingegneria Civile, Edile e Architettura, Università Politecnica delle Marche, Italy

Electromagnetic Compatibility of Low-Orbit Mega-Constellations and Terrestrial Radio Systems
Dzmitry Tsyanenka, Vladimir Mordachev, Aliaksandr Svistunou
Belarusian State University of Informatics and Radioelectronics, Belarus

	Analysis and 3D Simulation of MnZn Inductors from 20 ºC up to 120 ºC. **Josu Jon Etxebarria, Ibai Sanz, Rafael Suárez-López, María Tijero, Roberto Moreno** IKERLAN Technology Research Centre, Basque Research and Technology Alliance (BRTA)
	Surrogate Modeling of Random Electromagnetic Field Coupling to Transmission Lines Using Support Vector Machine Regression **Hemza Gueddar** Mohammed Saddik Ben Yahia University Jijel, Algeria
1:00pm - 2:00pm	**NEPIT Project Consortium Meeting** Location: **Room 107**
2:20pm - 3:50pm	**Measurement Techniques (Part 3)** Location: **Auditorium** Session Chair: **Prof. Valter Mariani Primiani**, Università Politecnica delle Marche, Italy Session Chair: **Dr. Guillaume Andrieu**, XLIM laboratory, University of Limoges, France
	Investigation and Comparative Study for the Statistical Characterization of Complex Electromagnetic Environments **Eyob Mersha Woldamanuel, Ramiro Serra** Eindhoven University of Technology, The Netherlands
	Probability Densities of Lag-1 in Linear and Circular Time Series modeling Stirring Processes **Rabah Florian MONSEF** GeePS, France
	Effects of Resonant Frequency Variation in a Vibrating Intrinsic Reverberation Chamber **Lukas Oppermann, Matthias Weidemeier** Technische Universität Braunschweig, Germany
	Non-destructive Testing of Generic EUT Based on Measured Absorption Cross Section Ratio **Alan Aliyali, Mattias Elfsberg, Rikard Fridsén-Skogsberg** Swedish Defence Research Agency (FOI), Sweden
2:20pm - 3:50pm	**Special Session: Wireless Power Transfer Systems and their Impact on EMC and EMF Safety (Part 2)** Location: **Room 105** Session Chair: **Prof. MAURO FELIZIANI**, Università degli Studi dell'Aquila, Italy Session Chair: **Dr. Silvano Cruciani**, Tor Vergata University of Rome, Italy
	A Method for Harmonic Noise Reduction Using Reflected Impedance in Wireless Power Transfer Systems **Changmin Lee, Jaewon Rhee, Seongho Woo, Seungmin Ha, Seungyoung Ahn** Korea Advanced Institute of Science and Technology, Korea, Republic of (South Korea)
	PCB Resonators Characterization for Shielding Purposes in DWPT systems **Nunzia Fontana, Sami Barmada, Junda Zhu, Samuele Luterotti** University of Pisa, Italy
	High Frequency Characterization of Dynamic Wireless Power Transfer Coils for EVs **Wassim Boumerdassi[1], Silvano Cruciani[2], Giorgio Di Nunzio[1], Alessio Sciamanna[1], Tommaso Campi[3], Francesca Maradei[3], Mauro Feliziani[1]** [1]Università of L'Aquila, Italy; [2]Tor Vergata University of Rome, Italy; [3]Sapienza University of Rome, Italy
	Reducing Magnetic Fields in EV Wireless Charging with Resonant Shielding Coils **Emir Sulejmani, Florian Steinle, Michael Beltle, Stefan Tenbohlen** University of Stuttgart, Germany

2:20pm - 3:50pm	**Filtering (Part 2)** Location: **Room 106** Session Chair: **Dr. Bertrand Revol**, SAFRAN, France Session Chair: **Prof. Stephan Frei**, TU Dortmund University, Germany
	Full-Wave 3D Modeling of Common-Mode Chokes up to 1GHz **Rafael Suárez, Ibai Sanz, María Tijero, Roberto Moreno** IKERLAN Technology Research Centre, Basque Research and Technology Alliance (BRTA)
	Physical Modeling of Saturated Common Mode Choke **Anna Takács[1,2], Balázs Gyüre-Garami[1,2], Ádám Zoltán Ábrahám[1], Tamás Péter Benkő[1], Norbert Marcel Nemes[3], Ferenc Simon[2,4,5], Bence Bernáth[1]** [1]Robert Bosch Kft., Hungary; [2]Department of Physics, Institute of Physics, Budapest University of Technology and Economics, Műegyetem rkp. 3., H-1111 Budapest, Hungary; [3]GFMC, Departamento de Física de Materiales, Universidad Complutense de Madrid, Madrid 28040, Spain; [4]Institute for Solid State Physics and Optics, HUN-REN Wigner Research Centre for Physics, Hungary; [5]Stavropoulos Center for Complex Quantum Matter, Department of Physics and Astronomy, University of Notre Dame, Notre Dame, Indiana 46556, USA
	An Improved Behavioural Modelling Approach for any Type of Common Mode Choke **Mario Steiner[1], Andree Scambor[2,3], Christoph Maier[2,3]** [1]Fronius International GmbH; [2]Institute of Microwave and Photonic Engineering, Graz University of Technology; [3]Christian Doppler Laboratory for Technology Guided Electronic Component Design and Characterisation
	Reducing Conducted Emissions at Switched-Mode Power Supplies with a Thermal Interface Material **Victor Solera[1], Sebastian Mirasol[2], Jose Torres[1], Adrian Suarez[1], Pedro A. Martinez[1], Antonio Alcarria[2], Andrea Amaro[1], Roberto Herraiz[1]** [1]Universitat de València, Spain; [2]Würth Elektronik eiSos, Germany
2:20pm - 3:50pm	**Shielding & Gasketing (Part 3)** Location: **Room 108** Session Chair: **Prof. Mohamed BENSETTI**, CentraleSupélec - GeePs, France Session Chair: **Prof. Tim Claeys**, KU Leuven, Belgium
	Time-Domain Physical Bounds in the Worst-Case EMC Analysis: A Plane-Wave Shielding Case **Martin Stumpf[1,2], Petr Kadlec[1], Elia Mattucci[1], Giulio Antonini[3], Jonas Ekman[2]** [1]Brno University of Technology, Czech Republic; [2]Lulea University of Technology, Sweden; [3]University of L'Aquila, Italy
	Determination of Shielding Effectiveness Using High-Frequency Electromagnetic Parameters: Theoretical, Simulation, and Experimental Approaches **Roberto Herraiz[1], Andrea Amaro[1], Adrian Suarez[1], Jose Torres[1], Victor Solera[1], Pedro A. Martinez[1], Antonio Alcarria[2], Ivan Valcarcel[2]** [1]Universitat de Valencia, Spain; [2]Würth Elektronik eiSos, Germany
	A Simple, Non-Intrusive and Fast Measurement Method to Estimate Shielding Effectiveness of Planar Samples at High Frequencies **Muhammad Ubaid Imtiaz, Ramiro Serra** Eindhoven University of Technology, Netherlands
	An Alternative Method for Measuring the Transfer Impedance of Coaxial and Data Cables **Frantisek Tragan[1], Evelina Tourounoglou[2], Stanislav Kovar[1]** [1]Tomas Bata University in Zlin, Czech Republic; [2]Thales Nederland B.V., Hengelo
3:50pm - 4:20pm	**Coffee Break** Location: **Patio**

4:00pm - 6:00pm	**ISC Meeting** Location: **Room 107**
4:20pm - 6:15pm	**Chambers and Cells (Part 2)** Location: **Auditorium** Session Chair: **Prof. Franco Moglie**, Università Politecnica delle Marche, Italy Session Chair: **Dr. Mathias Magdowski**, Otto von Guericke University, Germany
	Exploring Short Pulses in Reverberation Chambers **Michael Suhrke, Marian Lanzrath, Benjamin Jörres, Christian Adami** Fraunhofer Institute for Technological Trend Analysis INT, Germany
	Enhancing Low Frequency Behavior of Mode-stirred Chambers **Musab Hameed[1], Lukas Pertoll[1], Zahraa Ballout[1], Rosina Marisa Frank[1], Yang Xu[1], Sajjad Sadeghi[1], Atieh Talebzadeh[2], Mohammad Ali Khorrami[2], David Pommerenke[1]** [1]Graz University of Technology, Austria; [2]Hardware Engineering, Apple Inc. Cupertino, CA 95014 USA
	Empirical Estimation of the Effective Sample Size Based on the Central Limit Theorem in Reverberation Chambers **Anyela Aquino-Velasquez[1,2], Philippe Besnier[2], Priscila Fernandez-Lopez[1], Mohsen Koohestani[2]** [1]Valeo, Créteil, France; [2]Université de Rennes, INSA Rennes, ESEO Angers, IETR UMR 6164 CNRS, CentraleSupélec, Nantes Université, F 35000 Rennes, France
	Enabling 8-12GHz Measurements in a Tabletop Reverberation Chamber **Carmelo-Gabriel Vella, Laurens Alexander Bronckers** Eindhoven University of Technology, The Netherlands
	A Novel Hybrid Approach to Tune the Rician K Factor in Reverberation Chambers **Alfredo De Leo, Franco Moglie, Valter Mariani Primiani** Università Politecnica Marche, Italy
4:20pm - 6:15pm	**Computational Electromagnetics** Location: **Room 105** Session Chair: **Prof. Giulio Antonini**, University of L´Aquila, Italy Session Chair: **Prof. Alain REINEIX**, XLIM, France
	Quantum Computational Methods for Higher Order Modes Detection in Transmission Lines **Emanuel Colella[1,2], Luca Bastianelli[1], Valter Mariani Primiani[1], Franco Moglie[1], Gabriele Gradoni[1]** [1]Università Politecnica delle Marche, Marche, Italy; [2]University of Surrey, Guildford, UK
	Comparative Analysis of Hierarchical Matrix Formats for Electromagnetic Device Modeling: A Preliminary Study **Francesco Lucchini, Riccardo Torchio** University of Padova, Italy
	Broadband Equivalent-Circuit for Microstrip Structures Based on Dyadic Green's Functions **Phillip Schulz, Marco Leone** Otto-von-Guericke University Magdeburg, Germany
	{An Inherently Stable Modal Approach for Incorporating Debye-Modeled Dispersion in FEM-Based Broadband Circuit Models **Chris-Marvin Hamann, Marco Leone** Otto-von-Guericke-Universitaet Magdeburg, Germany

	Targeted EMC Analysis Using a Novel Characteristic Mode Analysis Approach **Hannes Schreiber, Philipp Herwigk, Marco Leone** Otto-von-Guericke University Magdeburg, Germany
4:20pm - 6:15pm	**Filtering (Part 3)** Location: **Room 106** Session Chair: **Dr. Tom Hartman**, University of Twente, The Netherlands Session Chair: **Dr. Tristan Dubois**, IMS Laboratory / Univ. Bordeaux / ADERA SAS, France
	Attenuation of Common-Mode Currents: Skin Effect and Proximity Effect Optimized Absorptive Low-Pass Filter Layer **Matthias Hampe, Mario Potschatski, Sean-Patrik Cretti** Ostfalia University of Applied Sciences, Germany
	Analysis and Circuit Modeling of Mode Conversion in Non-Ideal EMI Filters **Ali Jafari Roudposht, Ludovica Illiano, Xinglong Wu, Flavia Grassi, Sergio Amedeo Pignari** Politecnico di Milano, Italy
	A Tunable Decoupling Network for Common-Mode Noise Reduction in High-Speed Connectors **Chih-Yu Fang[1], Bin-Chyi Tseng[2], Jackson Yen[2], Tzong-Lin Wu[1]** [1]National Taiwan University, Taiwan; [2]ASUSTek Computer Inc., Taiwan
	Electrically Tunable Capacitor for EMC Band-Stop Filters **Timo van Rossen[1], Ivan Struzhko[1], Tom Hartman[1], Frank Leferink[1,2]** [1]University of Twente, The Netherlands; [2]Thales Nederland, The Netherlands
	An Automated Tool for Modelling Impedance for SPICE (ATMIS) with Focus on DC-Bias Dependent Behavioural Passive Component Modelling **Andree Scambor[1,2], Christoph Maier[1,2], Michael Fuchs[3]** [1]Christian Doppler Laboratory for Technology Guided Electronic Component Design and Characterisation; [2]Institute of Microwave and Photonic Engineering, Graz University of Technology; [3]edventure Studios GmbH
4:20pm - 6:15pm	**Transmission Lines, Cables, Crosstalk & Coupling (Part 3)** Location: **Room 108** Session Chair: **Dr. Charles JULLIEN**, Safran Electrical & Power, France Session Chair: **Dr. Christophe Guiffaut**, CNRS, France
	A New Method for Calculation of Generalized Distributed Capacitance Matrix for Multi-Conductor Transmission Lines **Zhicheng Xue[1], Yongzhe Wei[1], Shiping Tang[1,2], Xiang Zhou[1,2], Jinjing Ren[1,2], Mingjie Sheng[1,2]** [1]The Research Center for Electromagnetic Environmental Effects, School of Mechanical Engineering, Southeast University, Nanjing 211189, China; [2]Electromagnetic Environmental Effects Laboratory of Southeast University Research Institute in Suzhou, Suzhou 215123, China
	Modeling of Two-Conductor Oblique Cable Used in a Conducted Disturbance Test **Mao Inoue[1], Koji Nakamura[2], Tohlu Matsushima[1], Daisuke Nakayama[1], Yuki Fukumoto[1], Nobuo Kuwabara[1]** [1]Kyushu Institute of Technology, Kitakyushu-shi, Fukuoka, Japan; [2]Toyota Industries Corporation, Kariya-shi, Aichi, Japan
	Crosstalk of Unshielded Cables above Glued Overlapping Multi-material Ground Planes with Flow-drill Screw Joints **Helin Zhou, Raik Orbay, Georgios Mademlis, Henrik Holst, Mattias Ingvarson, Björn Bergqvist** Volvo Car Corporation, Sweden

	Comparison between Shielding Characteristic and Radiated Emission in Shielded Two-Wire Cables **Fumiya MUTO[1], Tatsuki KASHIHARA[1,2], Tohlu MATSUSHIMA[1], Yuki FUKUMOTO[1], Koji KOBAYASHI[2]** [1]Kyushu Institute of Technology, 1-1 Sensuicho, Tobata-ku, Kitakyushu-shi, 804-8550 Fukuoka Japan; [2]Sanden Corporation, 20 kotobuki-cho, Isesaki, 372-8502 Gunma Japan
	Estimation of Radiated Emissions from Multi-branch Wire Harnesses Based on Discontinuities and Reciprocity **Noboru Maeda[1], Naohito Takasuka[1], Keishi Miwa[2]** [1]SOKEN, INC., Japan; [2]Toyota Motor Corporation
7:30pm - 11:00pm	**ISC + LOC Dinner**

Friday, September 5th, 2025

Short program

8:30am - 9:00am	**Registration** Location: **Patio**		
9:00am - 10:30am	**Automotive EMC (Part 1)** Location: **Auditorium**	**Recent Developments in Near-Field Measurement and Its Applications in EMC (Part 1)** Location: **Room 105**	**You Had Me at "Reverb…"! (Part 1)** Location: **Room 106**
	EMC Standard Evolution: Aeronautic vs. Automotive (Part 1) Location: **Room 107**	**Machine Learning in EMC: a Potential Compatibility** Location: **Room 108**	**Advances and Challenges in Active EMI Filters for Next-Generation Power Electronics (Part 1)** Location: **Room 109**
10:30am - 11:00am	**Coffee Break** Location: **Patio**		
11:00am - 12:30pm	**Automotive EMC (Part 2)** Location: **Auditorium**	**Recent Developments in Near-Field Measurement and Its Applications in EMC (Part 2)** Location: **Room 105**	**You Had Me at "Reverb…"! (Part 2)** Location: **Room 106**
	EMC Standard Evolution: Aeronautic vs. Automotive (Part 2) Location: **Room 107**	**Practical Applications of Modern Stochastic Simulation and Modelling (Part 1)** Location: **Room 108**	**Advances and Challenges in Active EMI Filters for Next-Generation Power Electronics (Part 2)** Location: **Room 109**
12:30pm - 2:20pm	**Lunch** Location: **Restaurants nearby**		
2:20pm - 3:50pm	**Automotive EMC (Part 3)** Location: **Auditorium**	**Electromagnetic Compatibility Validation on Wide Band Gap Power Electronic Devices (Part 1)** Location: **Room 105**	**Recent Advances about VIRC (Vibrating Intrinsic Reverberation Chambers) (Part 1)** Location: **Room 106**
	Risk-Based EMC (Part 1) Location: **Room 107**	**Practical Applications of Modern Stochastic Simulation and Modelling (Part 2)** Location: **Room 108**	**EMC Simulation in Power Electronics (Part 1)** Location: **Room 109**
3:50pm - 4:20pm	**Coffee Break** Location: **Patio**		
4:20pm - 5:50pm	**Automotive EMC (Part 4)** Location: **Auditorium**	**Electromagnetic Compatibility Validation on Wide Band Gap Power Electronic Devices (Part 2)** Location: **Room 105**	**Recent Advances about VIRC (Vibrating Intrinsic Reverberation Chambers) (Part 2)** Location: **Room 106**
	Risk-Based EMC (Part 2) Location: **Room 107**	**Practical Applications of Modern Stochastic Simulation and Modelling (Part 3)** Location: **Room 108**	**EMC Simulation in Power Electronics (Part 2)** Location: **Room 109**

Friday, September 5th, 2025 : Detailed program

8:30am - 9:00am	**Registration** Location: **Patio**
9:00am - 10:30am	**Automotive EMC (Part 1)** Location: **Auditorium** Session Chair: **Dr. Marco KLINGLER**, Klingler International Consulting Services, France
	Modeling of Conducted Emission Tests of EV On-Board Powertrain Chargers on Table and on Vehicle – Discussions on the Correlation Between Test Results **Marco Klingler[1], Abdelhak Benali[2], Jérôme Mollet[3]** [1]Klingler International Consulting Services (Courtesy of Stellantis), France; [2]Dassault Systèmes, France; [3]Dassault Systèmes, France
	Managing Excessive Risks That Can be Caused by EMI (even when all EMC tests are passed) **Keith Armstrong** Cherry Clough Consultants Ltd, UK
	Designing and Troubleshooting High-Power ECUs for Modern EVs **Min Zhang** Mach One Design, UK
9:00am - 10:30am	**Recent Developments in Near-Field Measurement and Its Applications in EMC (Part 1)** Location: **Room 105** Session Chair: **Dr. Cheng Yang**, Hamburg University of Technology, Germany Session Chair: **Prof. DAVID POMMERENKE**, Graz University of Technology IFE, Austria
	Near Field Scanning, Probes and related method for solving EMC problems **David Pommerenke** Hamburg University of Technology, Germany
	Source Reconstruction Methods based on Near-Field Scanning **Xingchang Wei** Zhejiang University, China
9:00am - 10:30am	**You Had Me at "Reverb…"! (Part 1)** Location: **Room 106** Session Chair: **Dr. Vasso Gkatsi**, University of Twente - Thales, The Netherlands
	Reverberation Chambers: Introduction, Basic Theory, Uses and Applications **Ramiro Serra** Eindhoven University of Technology
	Fast and Reproducible Radiated Emission Measurements using the VIRC **Frank Leferink** University of Twente - Thales, The Netherlands
	EMC Standard Testing in RCs **Vignesh Rajamani** Rohde & Schwarz
9:00am - 10:30am	**EMC Standard Evolution: Aeronautic vs. Automotive (Part 1)** Location: **Room 107** Session Chair: **Dr. Charles JULLIEN**, Safran Electrical & Power, France Session Chair: **Dr. Frederic LAFON**, VALEO, France
	Introduction to EMC standard evolution from Aeronautic and Automotive point of view **Vincent MELCHOR[1], Frédéric LAFON[2], Charles JULLIEN[3]** [1]SafranTech, France; [2]VALEO, France; [3]Safran Electrical & Power, France

	Main ongoing evolutions in EMC immunity automotive standardization and induced challenges **Rémy PERROT[1], Frédéric LAFON[2], Xavier BUNLON[3]** [1]UTAC, France; [2]Valeo, France; [3]AMPERE, France
	Megatrends in Automotive and their impacts on future standardization **Frédéric LAFON[1], Rémy PERROT[2], Xavier BUNLON[3]** [1]Valeo, France; [2]UTAC, France; [3]AMPERE CARS, France
9:00am - 10:30am	**Machine Learning in EMC: a Potential Compatibility** Location: **Room 108** Session Chair: **Dr. Jonathan VILLAIN**, Université Gustave Eiffel, France Session Chair: **Dr. Paul Monferran**, Université Gustave Eiffel, France
	From EM data to the ML model: best practices to adopt. **Paul Monferran[1], Jonathan Villain[1], Susana Naranjo-Villamil[2]** [1]Université Gustave Eiffel, France; [2]EDF Power Networks Lab, EDF Group, Moret-Loing-et-Orvanne, 77250, France
	Machine Learning for lightning protection in power plants **Susana Naranjo-Villamil[1], Paul Monferran[2], Jonathan Villain[2]** [1]EDF Power Networks Lab, EDF Group, Moret-Loing-et-Orvanne, 77250, France; [2]Université Gustave Eiffel, France
9:00am - 10:30am	**Advances and Challenges in Active EMI Filters for Next-Generation Power Electronics (Part 1)** Location: **Room 109** Session Chair: **Faryal Baig**, Valeo eAutomotive Germany GmbH, Germany Session Chair: **Dr. Hans Hoffmann Sathler**, TE Connectivity, Switzerland
	Challenges and opportunities to introduce active EMI filtering for aeronautical applications **Richard Perraud, Lea Pommier, Davin Guedon, Madalina Pascaru** Airbus SAS, France
	Analysis of main contributors to EMI noise from High Power Drives **Sebastien Serpaud[1], Gregory Almeida[1], Richard Perraud[2], Lea Pommier[2], Davin Guedon[2]** [1]IRT Saint Exupéry, France; [2]Airbus SAS, France
	Digital Active Filters for CM EMI of Power Electronic Systems **Stephan Frei, Tobias Dörlemann, Maximilian Lemke, Jens Aigner** TU Dortmund University, Germany
	Examples and practical challenges of Active EMI Filters (AEF) in real power electronics products with power ratings of several kW or more power rating **Sangyeong Jeong, Jingook Kim** EMcoretech Inc., South Korea
9:30am - 4:00pm	**UTAC Technical Tour** Location: **UTAC** • 9:30 am: Bus departure from Sorbonne Université (Place Jussieu, in front of the main entrance) • 2:30-3:00 pm: Bus departure from UTAC • 4:00 pm: Estimated arrival at Sorbonne Université (depending on traffic)
10:30am - 11:00am	**Coffee Break** Location: **Patio**

11:00am - 12:30pm	**Automotive EMC (Part 2)** Location: **Auditorium** Session Chair: **Dr. Marco KLINGLER**, Klingler International Consulting Services, France
	Test methods for Shaft noise and Shaft coupling attenuation in EV Motor/Inverter system **Hee-hoon Yi** Hyundai Motor Group, Korea
	Establishing state-of-the-art material characterization laboratory and its applications in EMC simulation **Helin Zhou[1], Mattias Ingvarson[2], Anowar Masud[3], Håkan Ringius[4]** [1]Volvo Car Corporation, Sweden; [2]Volvo Car Corporation, Sweden; [3]Volvo Car Corporation, Sweden; [4]Volvo Car Corporation, Sweden
	EMC and EMF safety aspects of WPT systems in the automotive **Francesca Maradei[1], Mauro Feliziani[2], Tommaso Campi[3], Silvano Cruciani[4], Wassim Boumerdassi[5], Valerio De Santis[6]** [1]Sapienza Università di Roma, Italy; [2]Università degli Studi dell'Aquila, Italy; [3]Sapienza Università di Roma, Italy; [4]Università di Tor Vergata, Rome, Italy; [5]Università degli Studi dell'Aquila, Italy; [6]Università degli Studi dell'Aquila, Italy
11:00am - 12:30pm	**Recent Developments in Near-Field Measurement and Its Applications in EMC (Part 2)** Location: **Room 105** Session Chair: **Dr. Cheng Yang**, Hamburg University of Technology, Germany Session Chair: **Prof. DAVID POMMERENKE**, Graz University of Technology IFE, Austria
	Optimizing near-field measurement time and accuracy using an adaptive measurement approach **Sebastien Serpaud[1], Alexandre Boyer[2]** [1]IRT Saint Exupéry, France; [2]University of Toulouse, France
	Adaptive Near-field Scanning and Probe compensation **Tim Claeys** KU Leuven (Katholieke Universiteit Leuven), Belgium
	Robotic Near-field Acquisition using On-the-fly Scan Technique **Cheng Yang** Hamburg University of Technology, Germany
11:00am - 12:30pm	**You Had Me at "Reverb…"! (Part 2)** Location: **Room 106** Session Chair: **Dr. Vasso Gkatsi**, University of Twente - Thales, The Netherlands
	Fast Stirring, Fast Sensing and Direct Field-Strength Control **Mathias Magdowski[1], Samuel Hildebrandt[2]** [1]Otto-von-Guericke-University Magdeburg; [2]LUMILOOP
	Shielding Measurements in Reverberation Chambers **Andy Marvin** University of York
	Reverberation Chambers for Testing Wireless Devices and Systems **Valter Mariani Primiani** Marche Polytechnic University
11:00am - 12:30pm	**EMC Standard Evolution: Aeronautic vs. Automotive (Part 2)** Location: **Room 107** Session Chair: **Dr. Charles JULLIEN**, Safran Electrical & Power, France Session Chair: **Dr. Frederic LAFON**, VALEO, France
	11:00am - 11:30am

	Challenges of designing HIRF & LIE robust equipment within the new mobility context **Thomas EUDES, Frédéric LAGO, Stéphane BLANC** Safran Electronics & Defense, France
	Challenges in the qualification of HV aeronautical systems **Charles JULLIEN[1], Jérôme GENOULAZ[1], Coralie CHATARD[1], Vincent MELCHOR[2]** [1]Safran Electrical & Power, France; [2]SafranTech, France
	Round table on the topic with the audience **Charles JULLIEN[1], Vincent MELCHOR[2], Frédéric LAFON[3], Thomas EUDES[4], Rémy PERROT[5], Xavier BUNLON[6]** [1]Safran Electrical & Power, France; [2]SafranTech, France; [3]VALEO, France; [4]Safran Electronics & Defense, France; [5]UTAC, France; [6]AMPERE, France
11:00am - 12:30pm	**Practical Applications of Modern Stochastic Simulation and Modelling (Part 1)** Location: **Room 108** Session Chair: **Dr. Karol Niewiadomski**, University of Twente, The Netherlands Session Chair: **Paul Bremner**, RobustPhysics, United States of America
	Applications of Power Balance methods and stochastic EM method - from wireless applications to HIRF and IEMI evaluation in aircraft **Isabelle Junqua** ONERA, France
	Co-simulation of 10+ Gbps Signal Integrity in a System-level EMI Environment **Paul Bremner** RobustPhysics, USA
11:00am - 12:30pm	**Advances and Challenges in Active EMI Filters for Next-Generation Power Electronics (Part 2)** Location: **Room 109** Session Chair: **Faryal Baig**, Valeo eAutomotive Germany GmbH, Germany Session Chair: **Dr. Hans Hoffmann Sathler**, TE Connectivity, Switzerland
	Principles and Challenges of AAEFs in Automotive Domain **Faryal Baig, Guido Rasek** Valeo eAutomotive Germany GmbH, Germany
	Stability analysis of active EMI filters **Stefan Tolle** Siemens AG, Germany
	Active EMI Filters in three-phase AC and DC motor drives **Hans Hoffmann Sathler, Rémy Caillaud** TE Connectivity (Schaffner), Switzerland
	Standalone Active EMI Filter (AEF) IC for Reduced System Solutions Size and Cost **Abhijeet Godbole, Naresh Adepu** Texas Instruments, India
12:30pm - 2:20pm	**Lunch** Location: **Restaurants nearby**
2:20pm - 3:50pm	**Automotive EMC (Part 3)** Location: **Auditorium** Session Chair: **Dr. Marco KLINGLER**, Klingler International Consulting Services, France
	Estimation and improvements of signal integrity and immunity to EMI for automotive LAN **Hiroyuki Mori[1], Noboru Maeda[2], Miyuki Mizoguchi[3], Ryo Watanabe[4]** [1]SOKEN, Japan; [2]SOKEN, Japan; [3]SOKEN, Japan; [4]SOKEN, Japan

	Trends in EMC Simulation Standardization at the Society of Automotive Engineers of Japan (JSAE) **Soichiro Ota[1], Kazuma Kawai[2], Kazuki Furukawa[3], Kento Shimizu[4], Yasuo Matsubara[5], Yuki Sato[6], Umihiko Sawada[7], Hiroyuki Mizutani[8], Kengo Nakajima[9]** [1]Toyota Motor Corporation, Japan; [2]DENSO, Japan; [3]AISIN, Japan; [4]AISIN, Japan; [5]DENSO TEN, Japan; [6]TokaiRika, Japan; [7]Hino Motor Corporation, Japan; [8]Hino Motor Corporation, Japan; [9]Mazda Motor Corporation, Japan
	Proximity Effects in Cable Simulations for Automotive EMC Virtual Testing **Alexander Demurov[1], Ekaterina Yavolovskaya[2], Iskander Badzagua[3], Ilona Danelyan[4], Anna Gheonjian[5], Roman Jobava[6]** [1]EMCoS LLC, Tbilisi, Georgia; [2]EMCoS LLC, Tbilisi, Georgia; [3]EMCoS LLC, Tbilisi, Georgia; [4]EMCoS LLC, Tbilisi, Georgia; [5]EMCoS LLC, Tbilisi, Georgia; [6]EMCoS LLC, Tbilisi, Georgia
2:20pm - 3:50pm	**Electromagnetic Compatibility Validation on Wide Band Gap Power Electronic Devices (Part 1)** Location: **Room 105** Session Chair: **Dr. Vignesh Rajamani**, Rohde and Schwarz, United States of America
	EMC in Power Electronics – Part 1 **Tom Hartman, Erjon Ballukja, Niek Moonen** University of Twente
	EMC in Power Electronics – Part 2 **Erjon Ballukja, Tom Hartman, Niek Moonen** University of Twente
2:20pm - 3:50pm	**Recent Advances about VIRC (Vibrating Intrinsic Reverberation Chambers) (Part 1)** Location: **Room 106** Session Chair: **Dr. Guillaume Andrieu**, XLIM laboratory, University of Limoges, France
	From a simple idea (or was it a mistake: you will hear the true story at the workshop), to many applications of the VIRC **Frank Leferink** University of Twente / Thales, Netherlands
	VIRC for Time-Varying Radiated Emissions Testing of SmallSats and Payloads **Marc Pous** HE Space for ESA, Noordwijk, Nehterlands
	How to assess (and increase !) the stirring process of your VIRC ? **Guillaume Andrieu[1], Charles Jullien[2]** [1]XLIM laboratory, University of Limoges, France; [2]Safran Electrical & Power, Toulouse
2:20pm - 3:50pm	**Risk-Based EMC (Part 1)** Location: **Room 107** Session Chair: **Dr. Anne Roc'h**, Eindhoven University of Technology, The Netherlands
	Risk in the context of the EMC directive **Anne Roc'h** Eindhoven University of Technology, The Netherlands
	From Risk-Based EMC to Electromagnetic Resilience: What is in a Name? **Davy Pissoort** KU Leuven, Bruges, Be
	Managing Functional Safety and Other Risks that can be Caused by EMI **Keith Armstrong** Cherry Clough Consultants, UK

2:20pm - 3:50pm	**Practical Applications of Modern Stochastic Simulation and Modelling (Part 2)** Location: **Room 108** Session Chair: **Dr. Karol Niewiadomski**, University of Twente, The Netherlands Session Chair: **Paul Bremner**, RobustPhysics, United States of America
	Surrogate modeling and sensitivity analysis in circuit simulations **Karol Niewiadomski** University of Twente, Netherlands
	Lightning modeling and sensitivity analysis for EMC purposes **Arthur Piat, Victor Dos Santos, Sebastien Lallechere** SAFRAN, France
	Statistical Models of Power System for Low Voltage Profile Improvement **Robert Smoleński** University of Zielona Góra, Poland
2:20pm - 3:50pm	**EMC Simulation in Power Electronics (Part 1)** Location: **Room 109** Session Chair: **Prof. Jan Hansen**, Graz University of Technology, Austria
	Introduction to the conducted emission of power electronic circuits **Jan Hansen**[1,2,3] [1]Institute of Electronics, Graz University of Technology, Austria; [2]Christian Doppler Laboratory for EMC Aware Robust Electronic Systems, Austria; [3]Silicon Austria Labs, Graz, Austria
	The Challenges of modeling the EMI of power electronics **Jan Hansen**[1,2,3] [1]Institute of Electronics, Graz University of Technology, Austria; [2]Christian Doppler Laboratory for EMC Aware Robust Electronic Systems, Austria; [3]Silicon Austria Labs, Graz, Austria
	Passive and active component modeling **Jan Henninger**[1,2] [1]Institute of Electronics, Graz University of Technology, Austria; [2]Christian Doppler Laboratory for EMC Aware Robust Electronic Systems, Austria
	System Modeling at low (f < 30 MHz) frequencies **Jan Henninger**[1,2] [1]Institute of Electronics, Graz University of Technology, Austria; [2]Christian Doppler Laboratory for EMC Aware Robust Electronic Systems, Austria
3:50pm - 4:20pm	**Coffee Break** Location: **Patio**
4:20pm - 5:50pm	**Automotive EMC (Part 4)** Location: **Auditorium** Session Chair: **Dr. Marco KLINGLER**, Klingler International Consulting Services, France
	Demystifying ECE Regulation 10: Technical requirements and R10.07 updates **Ayhan Gunsaya** Ford Motor Company, UK
	Review of Automotive EMC Standardisation With Focus on EV **Martin Wiles**[1], **Mark Emery**[2] [1]MVG, UK; [2]HORIBA MIRA, UK
	Early stage design of automotive EMC filter considering core power loss **Umberto Paoletti** Hitachi, Japan

4:20pm - 5:50pm	**Electromagnetic Compatibility Validation on Wide Band Gap Power Electronic Devices (Part 2)** Location: **Room 105** Session Chair: **Dr. Vignesh Rajamani**, Rohde and Schwarz, United States of America
	Considerations to reduce EMI when moving to WBG Devices **Xavier Cheng** Rohde & Schwarz
	EMC debugging and analysis at the work bench **Christian Reimer** Rohde & Schwarz
4:20pm - 5:50pm	**Recent Advances about VIRC (Vibrating Intrinsic Reverberation Chambers) (Part 2)** Location: **Room 106** Session Chair: **Dr. Guillaume Andrieu**, XLIM laboratory, University of Limoges, France
	Analysis of the Field Homogeneity and Isotropy in a Tent-Like Reverberation Chamber - Comparison of Using a Rotating Stirrer and Shaking the Walls **Mathias Magdowski** Otto-von-Guericke-Universität Magdeburg, Germany
	Anechoic measurements within a fully-stirred VIRC **Guillaume Andrieu** XLIM laboratory, University of Limoges, France
	Dual VIRC for shielding effectiveness measurements **Robert Vogt-Ardatjew**[1], **Hans Schipper**[2] [1]University of Twente, Enschede, The Netherlands; [2]Thales Nederland BV, Hengelo, The Netherlands
4:20pm - 5:50pm	**Risk-Based EMC (Part 2)** Location: **Room 107** Session Chair: **Dr. Anne Roc'h**, Eindhoven University of Technology, The Netherlands
	Risk-Based EMC: Turning Complexity into Practical Solutions **Rob Kleihorst** Philips Medical Systems Nederland B.V.
	Risk-resilience-compliance framework for medical device EMC **Vikas Ashok Ghatge** KU Leuven, Bruges, BE
	Validation Plan and Physical Testing For EMR and Functional Safety **Marco KLINGLER** Klingler International Consulting Services, FR
4:20pm - 5:50pm	**Practical Applications of Modern Stochastic Simulation and Modelling (Part 3)** Location: **Room 108** Session Chair: **Dr. Karol Niewiadomski**, University of Twente, The Netherlands Session Chair: **Paul Bremner**, RobustPhysics, United States of America
	Harnesses, cable modeling and stochastic EM **Charles Jullien, Mackenzie Pandaleon, Anca Dieudonne** Safran Electrical & Power, France
	Random Dipole Model of Unintentional Radiators as a Tool for Emission Test Assessments **Jörg Petzold**

	Otto von Guericke University Magdeburg, Germany
	Role of correlations in RC measurement data **Ramiro Serra** Eindhoven University of Technology, Netherlands
4:20pm - 5:50pm	**EMC Simulation in Power Electronics (Part 2)** Location: **Room 109** Session Chair: **Prof. Jan Hansen**, Graz University of Technology, Austria
	System Modeling at high (f > 30 MHz) frequencies **Jan Hansen**[1,2,3] [1]Institute of Electronics, Graz University of Technology, Austria; [2]Christian Doppler Laboratory for EMC Aware Robust Electronic Systems, Austria; [3]Silicon Austria Labs, Graz, Austria
	Application of Machine Learning in EMC modeling **Patrick Dominik Gsoels**[1,2,3] [1]Silicon Austria Labs GmbH, Austria; [2]Christian Doppler Laboratory for EMC Aware Robust Electronic Systems, Austria; [3]Institute of Electronics, Graz University of Technology, Austria

APEMC 2026 Asia-Pacific International Symposium and Exhibition on Electromagnetic Compatibility

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The 17th Asia-Pacific International Symposium and Exhibition on Electromagnetic Compatibility (APEMC 2026) will be held at **Kuala Lumpur Convention Centre (KLCC)** in **Kuala Lumpur, Malaysia**, from **May 4 to 7, 2026**. The symposium fosters global collaboration, providing a unique opportunity for academia, industry, and regulatory bodies to exchange knowledge and strengthen connections. It also recognizes innovations and pioneering works through the Best Symposium Paper Awards, the Best Student Paper Awards, and other notable contributions. The scope of the symposium involves the entire spectrum of electromagnetic compatibility (EMC), electromagnetic environment, signal integrity and other featured EMC topics in emerging technologies. We warmly invite all prospective authors to submit original papers with the latest research findings and outcomes. We also welcome proposals for focused sessions, industrial forums, workshops, and tutorials.

SYMPOSIUM TOPICS

- EMC Management and Standards
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The submission must be in electronic format (PDF) via the EDAS system.

IMPORTANT DATES

Proposal for Special Session	October 3, 2025
Proposal for Workshop & Tutorial	November 1, 2025
Paper Submission	**November 21, 2025**
Notification of Acceptance	January 31, 2026
Final Manuscript Submission	February 16, 2026

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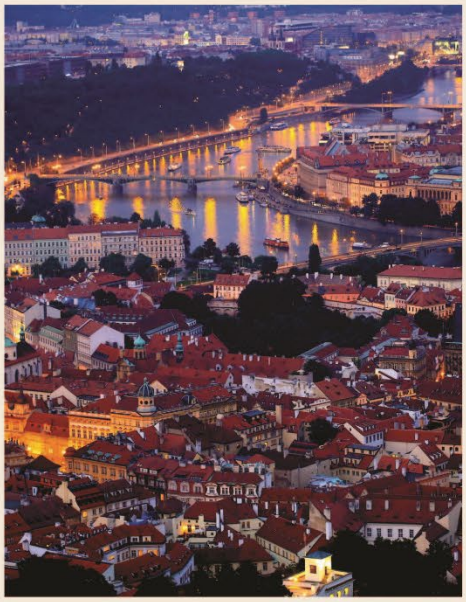
On behalf of the combined organising committee of the Czech EMC community and the University of Twente, we are delighted to extend a warm welcome to all of you to the EMC Europe 2026 symposium in the enchanting city of Prague.

SYMPOSIUM VENUE

Prague is one of the most enchanting capitals in the world. Prague's historic streets and lively atmosphere invite visitors to explore its charming cafés, traditional beer halls, and exquisite restaurants, making it a truly unforgettable destination.



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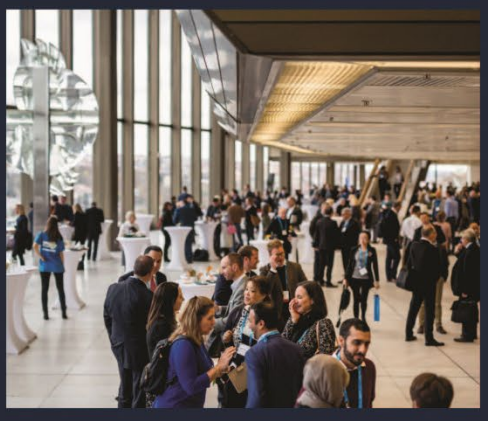
We look forward to your active participation and once again extend a warm welcome to the EMC Europe 2026 Symposium in Prague.

IMPORTANT DATES

- Special Session Proposals: January 12, 2026
- Paper Submission Deadline: February 16, 2026
- Workshop & Tutorial Proposals: March 30, 2026
- Notification of Paper Acceptance: April 27, 2026
- Registration of participants: March 31, 2026 (starting date)
- Reduced Registration Fee: June 1, 2026
- Final Paper Submission: June 1, 2026
- Exhibition Application: June 26, 2026



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