

# European Training Network SCHOOL



CBIM - European Training Network

Cloud-based Building Information  
Modelling

## **PhD School on Linked Data, Data Integration and Collaborative Working**

in collaboration with the  
**CIB W78 - LDAC 2021**  
joint conference

**11. – 15.10.2021**

**Luxemburg**

**COURSE GUIDE**

**ORGANIZATION: Trimble**



## **ABOUT**

This TE will be integrated in the CIB W78 - LDAC 2021 joint conference. It will offer ESR fellows the opportunity to attend a series of key lectures given by experts in the fields of linked data and data integration, BIM data standards including geospatial data, as well as data management concepts. The course will offer a general introduction to concepts relevant to open standards and data definitions, process definitions, dictionaries and ontologies, data and transaction provenance as well as applications, tools and practical solutions. Lectures will include data handling techniques and concepts from other industries such as gaming, manufacturing and plant engineering. A peer-to-peer assessment exercise will be utilized so that students develop an appreciation on ways to assess and provide feedback of peers' work.

The Joint Conference CIB W78 - LDAC 2021 is associated with the International Council for Research and Innovation in Building and Construction (CIB), its Working Commission W78 on Information Technology for Construction and the Linked Data in Architecture and Construction research community. This event is organized by the Luxembourg Institute of Science and Technology (LIST) in collaboration with Cardiff University (UK) and the European Construction Technology Platform (ECTP).

The 38th CIB W78 conference on Information and Communication Technologies for AECO and the 8th LDAC workshop aim to bring together an international community of researchers and industrials interested in the areas of Construction Informatics, BIM, Digital Twin and Knowledge Management. The scope of the conference is broad in terms of the design, construction and operation and occupancy of constructed facilities, but it primarily relates to the integration and communication of data, information and knowledge in the life cycle of a facility.

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# PROGRAMME

All hours are in Central European Summer Time (GMT+02:00)

## 11/10/2021 - LDAC 2021

Venue: Bâtiment administratif - Fonds Belval

**13.00 - Registration**

**13.30 - Welcome, Opening, and Introduction [Online]**

### [14.00-15.30 - LDAC Plenary 1 \[Online\]](#)

- 14:00 - 65 (P) - BIM Format conversion as alignment - *Pierre Bourreau and Jyrki Oraskari*
- 14:30 - 41 (O) - Evaluation of the strict semantics of owl:sameAs in the field of BIM GIS Integration - *Fritz Beck, Jimmy Abualdenien and André Borrmann*
- 15:00 - 38 (P) - Real-Time Building Performance Monitoring using Semantic Digital Twins - *Alex Donkers, Dajuan Yang, Bauke de Vries and Nico Baken*

**15.30 Coffee break**

### [16.00-17.00 - LDAC Plenary 2 \[Online\]](#)

- 16:00 - 99 (O) - A Linked Building Data Approach to Site Planning and Managing Temporary Construction Items - *Alexander Schlachter*
- 16:30 - 78 (P) - Queries on Semantic Building Digital Twins for Robot Navigation - *Rens de Koning, Elena Torta, Pieter Pauwels, Bob Hendrikx and Marinus van de Molengraft*

**18h-19h: LDAC Committee meeting (Closed)**

*P = Physical*

*O = Online*

# 12/10/2021 - LDAC 2021

Venue: Bâtiment administratif - Fonds Belval

**8.30 - Registration and welcome coffee**

**9.00 - Keynote speech [Online]**

*Dr. Edward Curry, Maynooth University Hamilton Institute, Ireland*

**10.00 - Coffee break**

## [10.30-12.30 - LDAC Plenary 3 \[Online\]](#)

- 10:30 - 176 (P) - Conversion of legacy domain models into ontologies for infrastructure maintenance - **Anne Göbels and Jakob Beetz**
- 11:00- 174 (P) - BPMN-related Ontology for Modeling the Construction Information Delivery of Linked Building Data - **Philipp Hagedorn and Markus König**
- 11:30 - 172 (P) - Ontology-based anamnesis and diagnosis of natural stone damage for retrofitting - **Al-Hakam Hamdan, Peter Katranuschkov and Raimar Scherer**
- 12:00 - 171 (P) - Interoperability between BIM and GIS through open data standards: An overview of current literature - **Eyosias Guyo, Timo Hartmann and Lucian Ungureanu**

**12.30 - Lunch**

## [14-16h - LDAC Plenary 4 \[Online\]](#)

- 14:00 - 131 (P) - Ontological approach for LOD-sensitive BIM-data management - **Janakiram Karlapudi, Prathap Valluru and Karsten Menzel**
- 14:30 - 122 (P) - bcfOWL: A BIM collaboration ontology - **Oliver Schulz, Jyrki Oraskari and Jakob Beetz**
- 15:00 - 116 (P) - A Minimal Workflow for interacting with Federated Linked Building Data - **Jeroen Werbrouck, Pieter Pauwels, Jakob Beetz and Erik Mannens**
- 15:30 - 115 (O) - TUBES System Ontology: Digitalization of building service systems - **Nicolas Pauen, Dominik Schlütter, Jérôme Frisch and Christoph van Treeck**

**16.00-17h - Just-a-Break**

**17.00 - [Walking guided tour in Belval](#)**

**18.30 - Common drink LDAC/CIB**

*P = Physical*

*O = Online*

# 13/10/2021 - CIB W78-LDAC 2021

Venue : *Abbaye de Neumünster - Luxembourg*

8.30 - Registration and welcome coffee

## 9.00 - Opening session

Welcome

Introduction speech by **Thomas Kallstenius**, CEO, Luxembourg Institute of Science and Technology, Luxembourg (P)

## 9.30 - Keynote speech

**Mark Enzer**, Head of the National Digital Twin programme and Chief Technical Officer of Mott MacDonald, United Kingdom (O)

## 10.15 - Coffee break

## 10.45 - Parallel sessions

### Session 1 - Digital Twins

- 10.45 - Talk 1 - 137 (O) Digital Twins to BIM Object Library – A Top-Down Modeling Approach - **Sophia Pibal**, Iva Kovacic and Robin Jakoubek, Austria
- 11.00 - Talk 2 - 97 (P) - An information-based approach to “Digital Twins” in three case studies - **Paula Gordo-Gregorio** and François Guéna, France
- 11.15 - Talk 3 - 69 (O) - Artificial Intelligence in the Construction Industry: Adoption, Benefits and Risks - **Marzia Bolpagni**, Ivana Bartoletti and Angelo Luigi Camillo Ciribini, United Kingdom
- 11.30 - Talk 4 - 173 (O) - Reviewing Technique for Order Preference by Similarity to Ideal Solution (TOPSIS) to support decision support system development in the Construction Industry - **Marjan Pouraghajan**, Robin Drogemuller and Sara Omrani, Australia
- 11.45 - Talk 5 - 204 (O) - Developing a standardised approach of Asset Lifecycle Information Modelling for Semantic Digital Twins in the built environment - **Rizal Sebastian**, Michel Bohms and Bart Luiten, Netherlands
- 12.00 - Talk 6 - 27 (O) - The Digital Twin in the AEC/FM Industry: a literature review - **Giorgia Caramia**, Giovanna Mangialardi and Angelo Corallo, Italy
- 12.15 - Talk 7 - 47 (O) - Software Tools Supporting Advanced Design Requirements for Digital Twins - Erik Kjems and **John K. Arthur**, Norway

### Session 2 - Environment and circular economy

- 10.45 - Talk 8 - 198 (O) - Development of a conceptual digital deconstruction platform with integrated Reversible BIM to aid decision making and facilitate a circular economy - **Elma Durmisevic**, Annie Guerriero, Calin Boje, Bruno Domange and Guido Bosch
- 11.00 - Talk 9 - 74 (P) - Post-Urban Mining Automation and Digitalisation for a Closed-Loop Circular Construction - **Arghavan Akbarieh**, Markus Schäfer, Danièle Waldmann and Felix Norman Teferle, Luxembourg

- 11.15 - Talk 10 - 96 (O) - Environmental Impact Assessment of Buildings Based on Building Information Modelling - **Laddu Bhagya Jayasinghe**, *Mike Paulus and Danièle Waldmann, Luxembourg*
- 11.30 - Talk 11 - 101 (O) - A BIM-based Building Circularity Assessment tool for the early design stage - **Nuo Zhang**, *Qi Han, Bauke de Vries and Jianli Zhai, Netherlands*
- 11.45 - Talk 12 - 169 (O) - An alternative approach to material and EPD mapping in the development of BIM-based LCA and LCC tools - **Haitham Abu-Ghaida** and *Aliakbar Kamari, Denmark*
- 12.00 - Talk 13 - 124 (O) - Initiating and designing an emerging multi-platform ecosystem for the circular economy in the built environment: An empirical case study - **Rita Lavikka**, *Gulnaz Aksenova and Annabella Haavisto, Finland*
- 12.15 - Talk 14 - 133 (O) - Popularizing DGNB in the Danish construction industry: A field study of the industry via a qualitative comparative analysis - *Aliakbar Kamari, Jonas Hedemann Petersen and Carl Peter Leslie Schultz, Denmark*

### 12.30 - Lunch

### 13.45 - Parallel sessions

#### Session 3 - BIM implementation and practice

- 13.45 - Talk 15 - 107 (P) - Fire risk assessment contributions for the EU building logbook structure – Case study of Braga’s city block - **Miguel Chichorro Goncalves**, *Pedro Mêda and Inês Casas, Portugal*
- 14.00 - Talk 16 - 18 (O) - Potential of digital tools for BIM-based risk management - **Maike Eilers**, *Carla Pütz, Anica Meins-Becker and Manfred Helmus, Germany*
- 14.15 - Talk 17 - 25 (O) - Similarity Evaluation of the Predeveloped MVD Concepts for Improving Reusability of Existing MVDs - *Moeid Shariatfar and Yong-Cheol Lee, USA*
- 14.30 - Talk 18 - 145 (P) - Multi-disciplinary learning from OpenBIM - **Tim Pat McGinley** and *Thomas Krijnen, Denmark*
- 14.45 - Talk 19 - 51 (O) - Development of a Guideline for Standard Models in the Context of Building Information Modeling - *Daiki John Feller, Gamze Hort and Anica Meins-Becker, Germany*
- 15.00 - Talk 20 - 195 (O) - BIM and PLM-Based Management of Occupational Health and Safety: A Comparative Literature Review - **Tiaya Tedonchio Christian**, *Nadeau Sylvie, Boton Conrad and Rivest Louis, Canada*

#### Session 4 - Virtual and Augmented Realities

- 13.45 - Talk 21 - 200 (O) - Virtual Reality Design Quality-Check Tool for Engineering Projects - **Fábio Matoseiro Dinis**, *João Poças Martins, Fernanda Sousa, Bárbara Rangel, Ana Sofia Guimarães and Alfredo Soeiro, Portugal*
- 14.00 - Talk 22 - 67 (P) - Exploring the utility of AR for quality inspections in timber-frame house production – A case study from Småland, Sweden - *Anton Gustavsson, Magnus Valtersson, Christoph Merschbrock and Peter Johansson, Sweden*
- 14.15 - Talk 23 - 170 (P) - An Active Early Warning System for Heavy Construction Vehicle Drivers based on Mixed Reality - **Tingsong Chen**, *Nobuyoshi Yabuki and Tomohiro Fukuda, Japan*

- 14.30 - Talk 24 - 111 (P) - Integrating Virtual Reality During the Architectural Design Process: a Survey to Identify Practitioner Needs - **Adrien Coppens**, *Tom Mens and Mohamed-Anis Gallas, Belgium*
- 14.45 - Talk 25 - 71 (P) - Automatic construction of photorealistic BIM elements in VR from single-picture input - **Johan Luttun** and *Thomas Krijnen, Netherlands*
- 15.00 - Talk 26 - 87 (P) - How Virtual Reality is used when involving healthcare staff in the design process - *Shahin Sateei, Johanna Eriksson, Mattias Roupé, Mikael Johansson and Göran Lindahl, Sweden*

### [ECTP Workshop - Linking EU H2020 projects on digitization in the construction and maintenance industry: Linked Data and ontologies for BIM and Building Digital Twins](#)

In at least five finalizing European H2020 research projects\*\* focusing on digitization in the building industry, Linked Data technologies are actively applied to tackle well-known interoperability challenges in the sector. Naturally, this resulted in the creation of a series of technical deliverables (ontologies, data modelling patterns constraints, processes, tools, etc) with both similarities and differences between the different ongoing projects. During the workshop, each of the five projects will share their technical insights on the subject through short technical presentations. The audience might expect to get a view on the reasons for applying Linked Data, the progress made during the project and the lessons learned. At the end of the presentations a roundtable discussion will be held between the different projects to discuss how the Linked Data related outcomes of the different projects can support each other and persist through the BDTA after the independent projects have ended.

\*\* H2020 research projects involved in the workshop:

- SPHERE: <https://sphere-project.eu/>
- BIM4EEB: <https://www.bim4eeb-project.eu/>
- BIM-SPEED: <https://www.bim-speed.eu/en>
- BIM4REN: <https://bim4ren.eu/>
- BIMERR: <https://bimerr.eu/>

[More details](#)

#### **15.15 Coffee break**

#### **15.45 - Parallel sessions**

#### [Session 5 - Common Data Environments](#)

- 15.45 - Talk 27 - 123 (P) - Conceptualizing Information Containers for Common Data Environments - **Madhumitha Senthilvel** and *Jakob Beetz, Germany*
- 16.00 - Talk 28 - 162 (O) - The Golden Day: Using Common Data Environments to Improve the Response Time in the Management of Change Orders - *Gabriel Lefebvre and Conrad Boton, Canada*

- 16.15 - Talk 29 - 52 (P) - Identification of the common data environment functions during construction phase of BIM-based projects - **Selen Ozkan and Senem Seyis, Turkey**
- 16.30 - Talk 30 - 82 (P) - Toward a Reference Architecture Framework for the development of interoperable construction digital platforms in Europe - **Claudio Mirarchi, Nicolas Naville, Alexis David, Nicolas Pastorelly and Alain Zarli, Italy**
- 16.45 - Talk 31 - 117 (P) - Design rationale documentation and exchange in the Danish AEC industry - **Simon Wyke, Rasmus Lund Jensen and Kjeld Svidt, Denmark**
- 17.00 - Talk 32 - 178 (O) - An Open Data Platform for Early-Stage Building Circularity Assessment - **Lina Morkunaite, Fayez Al Naber, Ekaterina Petrova and Kjeld Svidt, Netherlands**

## Session 6 - Digital Twins 2

- 15.45 - Talk 33 - 120 (P) - A pilot using a Building Digital Twin for LCA-based human health monitoring - **Calin Boje, Sylvain Kubicki, Annie Guerriero, Antonino Marvuglia, Tomas Navarrete, Enrico Benetto, Álvaro José Hahn Menacho and Johannes Hermen, Luxembourg**
- 16.00 - Talk 34 - 188 (O) - Enabling Digital Twins with Advanced Visualization and Contextualization of Sensor Data with BIM and Web Technologies - **Abhishek Relekar, Piotr Smolira, Ekaterina Petrova and Kjeld Svidt, Netherlands**
- 16.15 - Talk 35 - 22 (O) - Digital Twin Development for Stack Effect Mitigation - **Gary Chang, Karim El Mokhtari, Russell Richman and J.J. McArthur, Canada**
- 16.30 - Talk 36 - 184 (O) - A Modeling Methodology Towards Digital Twin Development in Smart Factories for the Industry 4.0 Human Augmentation Experiments - **Mahnaz Ensafi, Kereshmeh Afsari, Sahil Manoj Mehta, Niloufar Shadab, Alejandro Salado, Shahabedin Sagheb and Michael Kretser, USA**
- 16.45 - Talk 37 - 15 (O) - A Sound-based Digital Twin Framework for Autonomous Update on Project Schedule in Civil Infrastructure Construction - **Anisha Deria, Pedro Dominguez, Yong-Cheol Lee and Jin-Woo Choi, USA**
- 17.00 - Talk 38 - 84 (O) - Towards a Taxonomy of Built Asset Lifecycle Information Coupling - **Saman Davari, Erik Poirier and Bilal Succar, Canada**

## ECTP Workshop - Linking EU H2020 projects on digitization in the construction and maintenance industry: Linked Data and ontologies for BIM and Building Digital Twins

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\*\* H2020 research projects involved in the workshop:

- SPHERE: <https://sphere-project.eu/>
- BIM4EEB: <https://www.bim4eeb-project.eu/>
- BIM-SPEED: <https://www.bim-speed.eu/en>
- BIM4REN: <https://bim4ren.eu/>
- BIMERR: <https://bimerr.eu/>

[More details](#)

### **17.15-18.00 - Keynote speech**

When 21<sup>st</sup> Century Technologies Meet the Oldest Engineering Discipline

**Dr. Renate Fruchter**, *Founding Director of the Project Based Learning Laboratory (PBL Lab),  
Civil and Environmental Engineering Department, Stanford University, USA*

*P = Physical*

*O = Online*

# 14/10/2021 – CBIM PhD School

Venue : *Abbaye de Neumünster - Luxembourg*

**8.30 - Registration and welcome coffee**

**9.00 - Keynote speeches [Streamed]**

- 9.00 - Can IFC (mentality) be the basis of digital twins? No  
[Dr. Tamer El-Diraby](#), *Professor, Dept. of Civil & Mineral Engineering, University of Toronto, Canada (P)*
- 9.45 - Digital Built Environment – From Challenges to Breakthrough Impacts  
[Prof. Dr. Abdul Samad \(Sami\) Kazi](#), *Research Team Leader, Smart Cities & Intelligent Buildings, VTT (FIN) (O)*

**10.30 - Coffee break**

**11.00 - CBIM Doctoral School**

- 11.00 - Welcome to the 3<sup>rd</sup> CBIM PhD School – I am exercise, **Kim Nyberg**, *Trimble, Finland (P)*
- 11.30 - Linking BIM models with monitored data using semantic Web - **Pieter Pauwels**, *Netherlands*

**12.30 - Lunch**

**13.30 - CBIM Doctoral School**

- 13.30 - BIM / IFC Programming class part 1 - **Prof. Dr. Jakob Beetz**, *RWTH Aachen University, Germany*
- 14.00 - ESR presentation - **Zijian Wang**, *China*
- 14.30 - BIM / IFC Programming class part 2 - **Prof. Dr. Jakob Beetz**, *RWTH Aachen University, Germany*

**15.00 Coffee break**

**15.30 - CBIM Doctoral School**

- 15.30 - UML Workshop - **Kim Jung**, *LocLab, Germany*

**18.45 - [Social event - Departure from Abbaye de Neumünster to Remich \(for the the Cruise on the Moselle and Dinner\)](#)**

# 15/10/2021 – CBIM PhD School

Venue : *Abbaye de Neumünster - Luxembourg*

**8.30 - Registration and welcome coffee**

**9.00 - CBIM Doctoral School**

- 9.00 - Rapid prototyping using Unity - **Darren Thomson**, *Trimble, New Zealand*

**10.00 - Coffee break**

**10.30 - CBIM Doctoral School**

- 10.30 - Managing publications through Zotero - **Susana Martin**, *Cartif, Spain*
- 11.00 - Federated and linked approach to BIM Data Management - **Leif Granholm**, *Trimble, Finland (P)*

**12.00 - Lunch**

**13.15 - CBIM Doctoral School**

- 13.15 - The role of digital situation picture in solving the productivity problem of construction - **Olli Seppänen**, *Aalto University, Finland (O)*
- 14.15 - Collaborative Working with Robotics - **Aviad Almagor**, *Kim Nyberg, Trimble (O, P)*

**15.00 - Award ceremony with Eastman price award and closing session [Room José Ensich]**

**Pieter Pauwels**, *Eindhoven University of Technology (P)*

**Jakob Beetz**, *Professor, RWTH Aachen University (O)*

**Sylvain Kubicki**, *Conference Chair, Luxembourg Institute of Science and Technology (P)*

**15.30 - CBIM Doctoral School**

- 15.30-15.45 - Closing remarks, invitation to fourth CBIM PhD School – **Rafael Sacks**, *Technion, Kim Nyberg, Trimble (P)*

# Registration

To participate in CIB W78-LDAC 2021, please register online.

>>> [Registration links \(https://www.cibw78-ldac-2021.lu/registration/\)](https://www.cibw78-ldac-2021.lu/registration/)

Please book the following option: LDAC Workshop + CIB W78 (€550 physical presence, €180 for online attendance)

# Locations and Accommodation

Please arrange your travel and accommodation bookings individually through your hosting organization.

## LDAC

LDAC 2021 will take place in Belval (Luxembourg) on 11-12 October 2021 at:  
Bâtiment administratif - Fonds Belval  
1, avenue du Rock'n'Roll  
L-4361 Esch-sur-Alzette

LDAC Hotel recommendation:

Hotel	Address	Contact	Fees/night/room	Cut-off dates & booking-form
<a href="#">Ibis Esch Belval 3*</a>	12 Avenue du Rock'n'Roll– L-4361 Esch/Alzette	Tel.: +352 26 17 31 Email: <a href="mailto:h7071@accor.com">h7071@accor.com</a>	Single room: €105/night Double room: €120/night ==> Including Breakfast buffet	30 rooms available until 11 September 2021 <a href="#">Booking form</a>

## CIB W78

CIB W78 will take place in Luxembourg on 13-15 October 2021 at:  
Centre Culturel de Rencontre - Abbaye de Neumünster  
28, rue Münster  
L-2160 Luxembourg

CIB Hotel recommendation:

Hotel	Address	Contact	Fees/night/room	Cut-off dates & booking-form
<a href="#">Alvisse Parc Hotel</a>	Route d'Echternach	Email: <a href="mailto:info@parc-hotel.lu">info@parc-hotel.lu</a> Phone: +352 43 56 43	Single room:	20 rooms available until 15 September 2021

Hotel	Address	Contact	Fees/night/room	Cut-off dates & booking-form
	L-1453 Luxembourg		109 €/night  ==> Breakfast included	<a href="#">Booking link</a>  Promotion code: LIST2021
<a href="#">Ibis Luxembo-urg Airport</a>	Route de Trèves, L-2632 Findel, Luxembourg	Email: <a href="mailto:H0974-SB@ACCOR.COM">H0974-SB@ACCOR.COM</a>  Phone: +352 43 88 02	Single room:  115 €/night  ==> Breakfast included	10 rooms available until 05 August 2021  <a href="#">Booking form</a>
<a href="#">Hotel Parc Plaza</a>	5 Avenue Marie-Thérèse  L-2132 Luxembourg	Email: <a href="mailto:reservation@goereshotels.com">reservation@goereshotels.com</a>  Phone: +352 44 23 23 23	Single room:  189 €/night  ==> Breakfast included	20 rooms available until 15 August 2021  <a href="#">Booking form</a>
<a href="#">Hotel Parc Belair</a>	111 Avenue du X Septembre  L-2551 Luxembourg	Email: <a href="mailto:reservation@goereshotels.com">reservation@goereshotels.com</a>  Phone: +352 44 23 23 23	Single room:  219 €/night  ==> Breakfast included	10 rooms available until 15 August 2021  <a href="#">Booking form</a>
<a href="#">Hotel Parc Belle-Vue</a>	5 Avenue Marie-Thérèse  L-2132 Luxembourg	Email: <a href="mailto:reservation@goereshotels.com">reservation@goereshotels.com</a>  Phone: +352 44 23 23 23	Single room:  179 €/night  ==> Breakfast included	10 rooms available until 15 August 2021  <a href="#">Booking form</a>
<a href="#">Best Western Victor Hugo</a>	3 Avenue Victor Hugo  L-1750 Luxembourg	Email: <a href="mailto:info@victorhugo.bestwestern.de">info@victorhugo.bestwestern.de</a>  Phone: +352 26 24 44 0	Single room:  155 €/night  ==> Breakfast included	10 rooms available until 10 September 2021  Booking email: <a href="mailto:info@victorhugo.bestwestern.de">info@victorhugo.bestwestern.de</a>  Code: LIST2021
<a href="#">Double Tree Hilton</a>	12 Rue Jean Engling  L-1466 Luxembourg	Phone: +352 43 781	Single room:  165 €/night	10 rooms available until 10 September 2021  Group Name: LIST 2021  <a href="#">Booking link</a>

Hotel	Address	Contact	Fees/night/room	Cut-off dates & booking-form
<a href="#">Mama Shelter</a>	2 rue du Fort Niedergrüne wald – L- 2226 Luxembourg	Email: <a href="mailto:h1930-re@accor.com">h1930-re@accor.com</a>  Phone: +352 20 80 44 00	Single room:  150 €/night (10 to 11 October 2021)  215 €/night (11 to 15 October 2021)  ==> Breakfast included	20 rooms available  <a href="#">Booking form</a>
<a href="#">Novotel Luxemborg Kirchberg</a>	6 rue du Fort Niedergrüne wald – L- 2015 Luxembourg	Contact: Jerry Santiago  Email: <a href="mailto:h1930-re@accor.com">h1930-re@accor.com</a>  Phone: +352 429848	Single room:  150 €/night (10 to 11 October 2021)  215 €/night (11 to 15 October 2021)  ==> Breakfast included	20 rooms available until 29 August 2021  <a href="#">Booking form</a>
<a href="#">Novotel Suites Luxemborg</a>	Quartier Europeen, 13 Avenue J-F Kennedy, L- 1855 Luxembourg	Email: <a href="mailto:h7206@accor.com">h7206@accor.com</a>  Phone: +352 27040	Single room:  Single room:  150 €/night (10 to 11 October 2021)  215 €/night (11 to 15 October 2021)  ==> Breakfast	20 rooms available until 29 August 2021  <a href="#">Booking form</a>

Hotel	Address	Contact	Fees/night/room	Cut-off dates & booking-form
			included	
<a href="#">Novotel Luxembourg Centre</a>	35 Rue du Laboratoire L-1911 Luxembourg	Email: <a href="mailto:h5556@accor.com">h5556@accor.com</a> Phone: +352 248781	Single room: 150 €/night (10 to 11 October 2021)  215 €/night (11 to 15 October 2021)  ==> Breakfast included	20 rooms available until 29 August 2021  <a href="#">Booking form</a>

## Online Attendance

The committee has decided to host the conferences in Luxembourg in a hybrid format, with an online broadcast for those unable to join in person.

1. physical attendance – the author will be able to come in person and present his work in front of other physical attendees, as well as online participants via a live stream of the event
2. online attendance – the author will be able to present his work remotely via our streaming platform and virtually attend all the other live streamed sessions

As the situation within the Eurozone is improving, we foresee partial attendance in person. If attendees are unable to travel or do not want to put themselves at risk, we believe this solution will allow everyone interested to participate safely. Travel restrictions applied by the Government of the Grand Duchy of Luxembourg in October will have to be fully respected.

