

11 octobre 2019



Journée Mondiale de la Normalisation



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Agenda

13:30 – 13:55	Accueil des participants Mot de bienvenue (EN)
13:55 – 14:10	<i>Prof. Dr. Björn Ottersten – SnT, University of Luxembourg/ Prof. Dr. Serge Haan – FSTC, University of Luxembourg</i>
14:10 – 14:30	Finalisation de la stratégie normative 2010-2020 et perspectives 2020-2030 (FR) <i>Dr. Jean-Philippe Humbert – ILNAS</i>
14:30 – 14:40	Normalisation dans le domaine de la construction (FR) <i>M. Micael Borges – OLN/ILNAS</i>
14:40 – 14:50	Normalisation dans le domaine spatial (FR) <i>M. Nicolas Domenjoud – OLN/ILNAS</i>
14:50 – 15:05	Coffee Break
15:05 – 15:15	Programme de recherche ILNAS/SnT et programme éducatif ILNAS/FSTC à la normalisation (FR) <i>Prof. Dr. Pascal Bouvry – Université du Luxembourg</i>
15:15 – 15:50	Presentation of the technical reports “Smart ICT: Gap analysis between scientific research and technical standardization” (EN) <i>Dr. Matthias Brust, Mr. Nader Samir Labib, Ms. Saharnaz E. Dilmaghani, Mr. Chao Liu – University of Luxembourg</i>
15:50 – 16:00	Remise du trophée “Délégué national en normalisation” (FR) <i>Dr. Jean-Philippe Humbert – ILNAS</i>
16:00 – 18:00	Cocktail

Journée Mondiale de la Normalisation 2019



Dr. Jean-Philippe HUMBERT
Deputy Director
ILNAS

Dr. Jean-Philippe Humbert earned his PhD in Information and Communication Sciences, at Université Paul Verlaine of Metz, focused on information security and cybercriminality. Dr. Jean-Philippe Humbert is Vice-President of the Agence pour la Normalisation et l'Economie de la Connaissance (ANEC GIE) and Deputy Director of the Institut Luxembourgeois de la Normalisation, de l'Accréditation, de la Sécurité et qualité des produits et services (ILNAS) and, in this frame responsible of the national standardization strategy. Really involved into ICT Technical standardization and Education about standardization, since 2002, Dr. Jean-Philippe Humbert is also President of the National Mirror Committee ISO/IEC Joint Technical Committee 1 "Information Technology" and lecturer for the University of Luxembourg.



Journée Mondiale de la Normalisation 2019



Micael Borges joined the standardization department of ILNAS in 2016 after having worked for almost 10 years for two important Luxembourgish financial institutions. He is currently responsible for several projects in line with the national standardization strategy, one of which concerning the national building sector. Micael holds a Master's Degree in Economics from the University of Paris and a Master's Degree in Political Science from Sciences Po Grenoble.

Mr. Micael BORGES

Standardization Officer

ILNAS – National Standards Body



Nicolas Domenjoud is Responsible "ICT and Technical Standardization" at the Institut Luxembourgeois de la Normalisation, de l'Accréditation, de la Sécurité et qualité des produits et services (ILNAS) - National Standards Body. He leads projects for the development of ICT technical standardization at the national level to support the competitiveness of stakeholders and is also involved in the development of Education about Standardization. Nicolas is actively participating in the ISO/IEC Joint Technical Committee 1 "Information Technology", as national standardization delegate and secretary of the National Mirror Committee.

Mr. Nicolas DOMENJOUR

Responsible "ICT and Technical
Standardization"

ILNAS – National Standards Body



Journée Mondiale de la Normalisation 2019



Prof. Pascal BOUVRY

*Chargé de Mission
auprès
du Recteur*

University of Luxembourg

Dr. Pascal Bouvry is full professor in the Computer Science Department (CSC) at Faculty of Science, Technology and Communications of the University of Luxembourg), and Principal Investigator at the Interdisciplinary Centre of Security, Reliability and Trust (SnT). Professor Bouvry is also "Chargé de Mission auprès du Recteur" in charge of the University High Performance Computing service, heading the PCOG (Parallel Computing and Optimization Group). Professor Bouvry is active in various scientific editorial boards, committees and technical workgroups such as IEEE Transactions on Sustainable Computing, IET Cyber-Physical Systems: Theory & Applications, Springer journal on Communications and Sustainable Computing, and Elsevier journal in Swarm and Evolutionary Computation to name a few.

Professor Bouvry is the Luxembourg national delegate for PRACE (Partnership for Advanced Computing in Europe). The mission of PRACE is to enable high-impact scientific discovery and engineering research and development across all disciplines to enhance European competitiveness for the benefit of society.



Journée Mondiale de la Normalisation 2019



Dr. Matthias BRUST
Research Associate
University of Luxembourg

Dr. Matthias BRUST has received M.Sc. in Computer Science in 2002 from the University of Trier, Germany. He earned his Ph.D. in Computer Science in the University of Luxembourg in 2007. From 2008 to 2011, he was Postdoctoral Fellow and Visiting Researcher in Computer Science in the University of Central Florida, USA and in the Technological Institute of Aeronautics of Brazil. From 2011 to 2012, he was Principal Investigator for the São Paulo Research Foundation – FAPESP for a project named “Project: SIM-RSC - Intelligent marketing systems based on complex social networks”. From 2012 to 2015, Dr. Matthias BRUST worked as Research Assistant Professor at Louisiana Tech University (LATECH), USA, and as Research Fellow from 2015 to 2016 at the Singapore University of Technology and Design (SUTD).

Since 2016, Dr. Matthias BRUST is Research Associate in the Interdisciplinary Centre for Security, Reliability and Trust (SnT) of the University of Luxembourg.



Mr. Nader SAMIR
PhD Candidate at SnT
University of Luxembourg

In 2012, Mr. Nader Samir received his B.Sc. in Mechatronics Engineering from GUC; he then received the Erasmus Mundus grant for his graduate studies. In 2014, he received his first M.Sc. in Space Technology from Luleå University of Technology, Sweden and later received a M.Sc. in Space Techniques and Instrumentation from the University of Paul Sabatier, Toulouse France. During his graduate studies, Mr. Nader Samir worked on various international projects at some of the world’s leading research institutes such as Airbus Defence and Space in France; the Swedish Institute of Space Physics (IRF) in Kiruna; the Research Institute of Astrophysics and Planetary Science (IRAP) in France, and the Deutsches Zentrum für Luft - und Raumfahrt (DLR) in Germany. Mr. Nader Samir joined SnT as a PhD candidate in October 2017 for the ILNAS-SnT project on technical standardisation and digital trust in smart ICT with core focus on IoT.

His current research interests include algorithms for localisation and tracking, collision avoidance, path planning optimisation and distributed decision making in multi-agent systems (UAV swarms). Mr. Nader Samir is also heavily involved in the tech-start-up business and particularly in their early formation and validation stages.



Journée Mondiale de la Normalisation 2019



Mr. Chao LIU
PhD Candidate at SnT
University of Luxembourg

Mr. Chao LIU received his B.S. Degree in Optoelectronic Information Engineering from Huazhong University of Science and Technology and MSc Degree in Wireless Communications from Institut Supérieur d'Électronique de Paris in 2012 and 2014, respectively. His research experience is mainly for mobile communication network planning, network optimization, and technical consultation of digital communication transmission system.

Mr. Chao LIU joined SnT as a PhD Candidate on the ILNAS-SNT project in 2017 and his research interests include pricing strategy in cloud computing and standardisation. Mr. LIU is working under the supervision of Prof. Pascal Bouvry.



**Ms. Saharnaz
E. DILMAGHANI**
PhD Candidate at SnT
University of Luxembourg

Ms. Saharnaz DILMAGHANI received her MSc. degree in Computer Engineering from Bilkent University, Turkey, in 2017. Her thesis was about data privacy of personal health records. Her research interests are Artificial Intelligence, Big Data, Privacy and Security.

Ms. DILMAGHANI has started her PhD in 2018 at the University of Luxembourg under the supervision of Dr. Matthias BRUST. The topic of her current research is focused on developing adaptive clustering algorithms considering data privacy and security.



Journée Mondiale de la Normalisation 2019

Training “Artificial Intelligence and technical standardization”



▪ Objectives:

The training aims to introduce the fundamental concepts of Artificial Intelligence (AI). It provides the historical context, explains the basics of technology and analyzes a selection of use cases. While discussing the challenges related to AI, you will gain insights on the relevant technical standardization activities and their role in improving the trustworthiness of the technology.

▪ Learning outcomes and objectives

- Be familiar with the historical context and the enabling technologies of AI
- Understand the basic AI techniques
- Be aware of the impact that AI could have on business and its related challenges
- Review the business problems through the prism of AI techniques
- Identify relevant developments in technical standardization

▪ Program:

1. Introduction to Artificial Intelligence

- Historical timeline
- Enabling technologies
- Definitions

2. Market overview

- Economic potential of AI
- Case studies

3. Technology overview

- Introduction to the main AI techniques
- Technical challenges
- Historical timeline
- Enabling technologies
- Definitions

4. Standardization in AI

- Overview of activities of ISO/IEC JTC 1/SC 42 Artificial Intelligence
- Other relevant standardization initiatives
- National standardization efforts: how to become a national delegate

▪ Practical information:

Audience: Beginners to mid-level IT knowledge Date: 29.11.2019
Duration: 4 hours Place: ILNAS premises
Language: English Price: 250€ net VAT

Journée Mondiale de la Normalisation 2019

Conférence “Standardization & Cybersecurity”

L'ILNAS et SECURITYMADEIN.LU invitent les acteurs nationaux le lundi 21 octobre 2019, de 14h30 à 17h30, à un événement relatif aux liens entre normalisation et cybersécurité.

Avec l'augmentation des systèmes numériques en réseau, les technologies de l'information et de la communication (TIC) sont de plus en plus confrontées à de sérieuses menaces et cyberattaques, à des vulnérabilités et à des impacts graves connexes. Les normes techniques peuvent offrir un moyen efficace d'atténuer ces risques. Dans ce contexte, l'ILNAS publiera une nouvelle édition de l'analyse normative nationale « Smart Secure ICT », qui met en lumière les développements normatifs dans le domaine des Smart ICT (Internet of Things (IoT), Cloud Computing, Artificial Intelligence (AI), Blockchain), y compris les développements normatifs liés à la cybersécurité et à la confiance numérique.

En plus de cet aperçu, les travaux en cours d'un comité technique de normalisation spécifique, actif dans les domaines de la sécurité de l'information et de la confiance, seront présentés. Au cours de cette conférence, SECURITYMADEIN.LU présentera également le nouvel écosystème de cybersécurité luxembourgeois et présentera les normes techniques et/ou les comités de normalisation technique pertinents au sein de cet écosystème. Enfin, l'ILNAS et SECURITYMADEIN.LU auront le plaisir d'inaugurer la nouvelle station de lecture dédiée aux normes, installée dans les locaux du Cybersecurity Competence Center (C3). Un cocktail clôturera l'événement permettant ainsi aux participants d'échanger et d'obtenir plus d'informations sur les différents sujets présentés.



L'inscription est obligatoire pour cet événement car les places sont limitées. Nous vous invitons à nous confirmer votre présence au plus tard **le jeudi 10 octobre 2019** :

E-Mail : anec@ilnas.etat.lu

