



Journée Mondiale de la Normalisation

12 octobre 2018

INTERNATIONAL STANDARDS AND
the 4th
industrial
revolution



Journée Mondiale de la Normalisation

Agenda

14:00 – 14:20	Accueil des participants
14:20 – 14:30	Mot de bienvenue (FR) M. Romain Raux - Université du Luxembourg
14:30 – 14:40	Normalisation technique des TIC au niveau national (FR) Dr. Jean-Philippe Humbert - ILNAS
14:40 – 14:50	Programme de recherche ILNAS/SnT (FR) Prof. Pascal Bouvry -Université du Luxembourg
14:50 – 15:00	« Data Driven Economy » : contexte national (FR) M. François Thill - Ministère de l'Economie
15:00 – 15:50	Presentation of the White Paper “Data Protection and Privacy in Smart ICT” (EN) Dr. Matthias Brust, Mr. Nader Samir Labib, Ms. Saharnaz E. Dilmaghani, Mr. Chao Liu – SnT - University of Luxembourg Dr. Ravi Jhawar - ANEC GIE
15:50 – 16:00	Remise du trophée “Délégué national en normalisation” (FR) Dr. Jean-Philippe Humbert - ILNAS
16:00 – 18:00	Cocktail

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Speakers



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.



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Speakers



Prof. Pascal BOUVRY
*Chargé de Mission
auprès
du Recteur*
University of Luxembourg

Prof. Pascal Bouvry is currently "Chargé de Mission auprès du Recteur" in charge of the University High Performance Computing service, heading the PCOG (Parallel Computing and Optimization Group), directing the certificate Smart ICT for Business innovation. He is also associated faculty of the Interdisciplinary Centre of Security, Reliability and active in various scientific editorial boards, committees and technical workgroups such as IEEE Transactions on Sustainable Computing, IEEE Cloud Computing Magazine, 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.



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Speakers



Mr. François THILL
Director cyber security
Ministry of the Economy

Mr. François Thill received in 1991 a M.Sc. degree in information technology at the University of Linz, Austria. After 10 years of IT experience in international banking, he joined the Ministry of the Economy in Luxembourg in 2001 as responsible for IT security, and is to date the Director of the department for e-commerce and information security.

Mr. François Thill played a leading role in the creation of the Luxembourg accreditation scheme for PKI, as well as in a number of initiatives such as CASES (Cyberworld Awareness and Security Enhancement Services) in 2003; the first Luxembourg CERT in 2007 or Security Made in Lëtzebuerg (smile g.i.e.) in 2010, hosting the Luxembourg Cybersecurity Competence Centre. He is also a co-author of the Luxembourg national cyber security strategy. Furthermore, Mr. François Thill represents Luxembourg on the management board of the European Network and Information Security Agency (ENISA) since 2003; he is member of the board of LuxTrust, chair of the board of SecurityMaderin.lu, member of the Luxembourg Cyber Security Board, and an alternate member of the Data Protection Authority in Luxembourg.



Dr. Matthias R. BRUST
Research Associate
University of Luxembourg

Dr. Matthias R. Brust has received M.Sc. in Computer Science in 2002 in 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 the Louisiana Tech University, USA and as Research Fellow from 2015 to 2016) in the Singapore University of Technology and Design.

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



Mr. Nader SAMIR LABIB
PhD Candidate at SnT
University of Luxembourg

Nader received his B.Sc. in Mechatronics Engineering from GUC in 2012. In 2014, Nader 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, Nader worked on various international projects at leading research institutes including Airbus Defence and Space in France, IRF in Sweden, IRAP in France, and DLR in Germany. In 2015, Nader co-founded Aiön Industries as well as sat on the board of different tech startups operating in the Middle East and was part of the Presidential Leadership Program, working closely with the cabinet of ministers to develop Egypt’s vision 2030. In 2016 he was granted a national award from the Egyptian president as well as the GUC Distinguished Alumni Award for his efforts in helping raise the benchmark of technology and research in the country.

Nader joined SnT October 2017, as a PhD candidate and his current research interests include security, privacy and data protection in IoT, optimisation, machine learning and distributed decision making in multi-agent systems (UAV swarms).

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Speakers



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 game theory, optimization, pricing strategies in cloud computing and standardisation.



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

Ms. Saharnaz E. Dilmaghani received her MSc. degree from the Computer Engineering Department of Bilkent University, Turkey, in 2017. Her master thesis is about “A privacy-preserving solution for storage and processing of personal health records against brute-force attacks”. She is co-author of the article “Network based machine learning for privacy preservation in bio medical big data analytics” presented during the NetSci conference in June 2018.

Her research interests are on big data, machine learning, privacy and security. Saharnaz is working under the supervision of Dr. Matthias R. Brust.

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Speakers



Dr. Ravi JHAWAR

*Project Officer Smart ICT and
Standardisation*
ANEC GIE

Dr. Ravi Jhavar is Project Officer Smart ICT and Standardisation at the GIE ANEC. In this context, he is responsible for digital trust and blockchain research and technical standardisation activities. Before joining GIE ANEC, Dr. Ravi Jhavar worked as a post-doctoral research associate at the Interdisciplinary Centre for Security, Reliability and Trust (SnT) of the University of Luxembourg where he performed various research activities and managed national and industrial projects. His core professional interests are in the areas of information security, risk management, cloud computing and blockchain. He holds a PhD from University of Milan and MSc from University College London.



Journée Mondiale de la Normalisation

Prochaines formations

Training "Internet Of Things (IoT) and technical standardization" - 18.10.2018



- Objectives:

The training aims to provide basic concepts of IoT and its limitations along with case studies. In addition, it will provide insights on the relevant standardization activities in IoT and related technologies through standards watch.

- Program:

1. IoT fundamentals
 - Basic IoT characteristics
 - IoT evolutions
 - Data/information flow in IoT
 - Reference architecture
2. Limitations in today's IoT
 - Security, trust, privacy and identity management
 - Connectivity, interoperability and integrability
 - Data collection, ownership and management
3. Case studies
4. IoT and technical standardization
 - ISO/IEC JTC 1/SC 41 – Internet of Things and related technologies
 - ITU-T and ETSI initiatives
 - Analysis of other relevant standards
 - National standardization efforts: how to become a national delegate

- Practical information:

Audience: Beginners to mid-level IT knowledge

Duration: 4 hours

Language: English

Date: 18.10.2018

Place: ILNAS premises

Price: 250€ net VAT

Journée Mondiale de la Normalisation

Prochaines formations

Training "Cloud Computing and digital trust" - 15.11.2018



- Objectives:

The training aims to provide fundamental Cloud Computing topics from technical & technological, economic and business perspectives to technical standardization considerations.

- Program:

1. Cloud Computing fundamentals
 - Service models & deployment methods
 - Cloud enabling-technology concepts
 - Description of roles, sub-roles, and Cloud Computing activities
 - Reference architecture
2. Trust in Cloud Computing
 - Goals, benefits, metrics for costs of Cloud Computing
 - Use cases & user stories
 - Digital trust, trust models and technical challenges
 - Economic and business prospects
 - Security & privacy
3. Cloud Computing and technical standardization
 - Introduction to technical standardization: international and national context
 - ISO/IEC JTC1 SC 38 - Cloud Computing and Distributed Platforms
 - Cloud standards guide
 - Analysis of other relevant standards
 - National standardization efforts: how to become a national delegate

- Practical information:

Audience: Beginners to mid-level IT knowledge

Duration: 4 hours

Language: English

Date: 15.11.2018

Place: ILNAS premises

Price: 250€ net VAT

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Prochain événement

La normalisation technique constitue un outil essentiel pour le développement des nouvelles Technologies de l'Information et de la Communication (TIC) qui sont toujours plus interconnectées et interdépendantes. Les normes permettent de garantir l'interopérabilité, la sécurité ou encore la qualité des technologies et constituent un multiplicateur important pour l'innovation technologique.



PETIT DÉJEUNER

STANDARDS ANALYSIS

SMART SECURE ICT

LUXEMBOURG

Mardi 13 novembre 2018

ILNAS
Institut Luxembourgeois de la
Normalisation, de l'Accréditation, de la
Sécurité et qualité des produits et services

ANEC
Agence pour la Normalisation
et l'Economie de la Connaissance

Dans ce contexte, l'ILNAS publiera prochainement une **Analyse Normative nationale « Smart Secure ICT »**, qui présente les principaux développements normatifs pertinents dans ce domaine. Ce document identifie les comités techniques de normalisation actifs au niveau international pour différents « sous-secteurs », tels que le Cloud Computing, l'Internet of Things (IoT), l'Intelligence Artificielle (AI), les Blockchains et les développements de Confiance numérique associés à ces technologies. Les acteurs économiques nationaux pourront également découvrir les opportunités offertes au Luxembourg pour s'impliquer activement dans les activités de normalisation technique et tirer profit de cet outil stratégique.

Dans le cadre de cette publication, l'ILNAS organise un petit-déjeuner de présentation le **mardi 13 novembre 2018 de 09h30 à 10h30**.

L'inscription est obligatoire pour cet événement car les places sont limitées. Nous vous invitons à nous confirmer votre présence au plus tard **le vendredi 9 novembre 2018**:

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