Marc-Oliver Pahl Appointed Director of IMT Atlantique Cyber CNI Chaire Research Consortium

Marc-Oliver Pahl, Research Director in the Department of Network Systems, Cybersecurity and Digital Law on IMT Atlantique's Rennes campus, is taking over as head of the Cyber CNI Chaire (French research consortium). Since 2016, this Chaire has been teaching and conducting research in the now highly strategic field of cybersecurity of critical infrastructures (energy networks, digital infrastructures, industrial processes, water production plants and financial systems).

Marc-Olivier Pahl, whose research in the areas of Internet of Things (IoT) and secure distributed systems have earned him international recognition, took over as head of research in the Department of Network Systems, Cybersecurity and Digital Law at IMT Atlantique in October 2019. He is also head of digital education at the German-French Academy for the Industry of the Future (GFA). As Co-Chair, associate editor and member of the technical program committee of several major conferences and scientific journals, Dr. Pahl has participated in and coordinated numerous collaborative research projects of all sizes, some of which were selected in the framework of the European research and development program Horizon 2020. He brings with him just the right expertise to manage the Cyber CNI Chaire research consortium. This Chaire is the result of a partnership between academic players - IMT Atlantique, Télécom ParisTech and Télécom SudParis - and prestigious industrialists (Airbus Defence and Space, Amossys, BNP Paribas, EDF and Nokia Bell Labs).

Innovative teaching and research

Marc-Oliver Pahl has been teaching at the university level since 2004, after studying at the Universität Tübingen and then obtaining a PhD in computer science on the secure management of
distributed heterogeneous systems at the Technische Universität in Munich. He is passionate about new forms of teaching, and has designed several innovative projects, such as iLab, a series of courses dedicated to distributed networks and systems. With more than 2000 students since 2004, iLab is based on an original, practical approach and benefits from the contribution of e-Learning. This project earned Dr. Pahl the prestigious Ernst Otto Fischer Teaching Prize from the Technische Universität of Munich in 2013, along with several other awards in the following years. He is also responsible for the Massive Open Online Course (MOOC) "iLabX - The Internet Masterclass" and the "Future Internet of Things" summer course series.

About the Cyber CNI Chaire (French research consortium)

Hosted by IMT Atlantique, in partnership with Télécom ParisTech, Télécom SudParis and a network of industrial partner, the Chaire research consortium dedicated to cybersecurity of critical infrastructures was inaugurated in 2016 and renewed in January 2019 for a further 3 years. Funding is provided by the Regional Council of Brittany, with support from the European Regional Development Fund and prestigious industry players Airbus Defence and Space, Amossys, BNP Paribas, EDF and NokiaBell Labs). Furthermore, the Chaire research consortium maintains close links with the Regional Council of Brittany, notably in the context of the Cyber center of excellence.

In addition to the theme of cybersecurity of critical infrastructures, the work conducted by the Cyber CNI Chaire (French research consortium) focuses on what artificial intelligence (AI) can bring to cybersecurity, the pooling and sharing of intelligence information in the case of threats to security, the industrial applications of connected objects (Industrial IoT), or indeed blockchain.

Find out more at: https://www.chairecyber-cni.org

About the German-French Academy for the Industry of the Future

Within the context of the partnership between The French Alliance for the Industry of the Future and German Plattform Industrie 4.0, IMT and the Technical University of Munich (TUM) created the German-French Academy for the Industry of the Future on 27 October 2015.

The aim of this academy “without walls” is to optimize the complementary nature of Franco-German teaching and research skills for the industry of the future, drawing on the two networks: The French Alliance for the Industry of the future, and the German Plattform Industrie 4.0.

In the long term, this academy will represent a bilateral network of excellence at a European level, in close collaboration with Industry.

Find out more at: https://www.future-industry.org/

About the « Future Internet of Things » summer courses

The series of Future-IoT summer schools offers first-class teaching paired with many practical elements. One central feature is the strong presence of industrial partners. The summer schools take place each year under the aegis of the German-French Academy and the Deutsch-Französische Hochschule / Université Franco-Allemand, organized by Marc-Oliver Pahl and Nicolas Montavont. The location of the Future-IoT summer school alternates between France and Germany. Previous editions include 2018 “IoT meets Industry” in Saint-Malo and 2019 “IoT meets AI” in Munich. The 2020 “IoT meets Security” edition will take place from 5 to 9 October 2020, with participation from Airbus, ArianeGroup, Atos, elm.leblanc, Siemens and many more.
Find out more at: https://school.future-iot.org/

About the iLabX MOOC - The Internet Masterclass
The aim of the Massive Open Online Course (MOOC) "iLabX The Internet Masterclass" is to teach learners with a foundation in computer networks exactly how the internet works. In six 6-hour sessions, participants learn not only how the internet is maintained in theory, but also install it in an experimental environment on their own computers. The concepts are both demonstrated and explored in over 190 videos and numerous texts, along with hundreds of quizzes and practical exercises. Among other things, participants can discover interesting and fun videos from Vint Cerf, one of the fathers of the internet, a visit to the Computer History Museum, and other high points. iLabX is available for free on the edX platform.

Find out more at: https://ilabx.ilabxp.com/

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