

FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE
DOCTORAL PROGRAMME IN COMPUTER SCIENCE AND ENGINEERING

Professors, Associated Professors, Assistants-Professors, Affiliated Professors

Researchers with supervision rights

07-Jan-25

Supervisor		Entity	Discipline	Field of Research
Sallam ABUALHAJIA	SALLAM.ABUALHAJIA@UNIL.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Requirements engineering, regulatory compliance, applied natural language processing, and generative AI.
Mohammad ALAEE	MOHAMMAD.ALAEE@UNIL.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Radar Signal Processing, Waveform Design and Optimization, Hardware Implementation, USRP/mmWave COTS,
Dimitra ANASTASIOU	DIMITRA.ANASTASIOU@EXT.UNIL.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Informatique	Computational Linguistics, Human Computer Interaction, Multimodal Systems, Multilingualism
Djamila AOUADA	DJAMILA.AOUADA@UNIL.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Signal and image processing, computer vision, pattern recognition and data modelling
Xavier BESSERON	XAVIER.BESSERON@UNIL.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Parallel and distributed programming, High-Performance Computing (HPC) Discrete Element Method (DEM) and Computational Fluid Dynamics (CFD) and their applications Parallel coupling of HPC applications, in particular CFD-DEM Software engineering, verification, testing, and debugging of numerical simulations and HPC software Distributed systems, Cloud computing and Internet-of-Things (IoT) Fault Tolerance, dynamic reconfiguration and monitoring of distributed systems Data processing & analysis, Machine Learning, and Artificial Intelligence applied to Industry
Domenico BIANCULLI	DOMENICO.BIANCULLI@UNIL.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	My research area is software engineering, with particular emphasis on the specification, verification and validation of software systems. My research interests include: trace checking and run-time verification of temporal properties, log analysis, compliance checking, modeling and enforcing of access control policies, program analysis for security, incremental verification techniques, and verification of service-oriented systems.
Alex BIRYUKOV	ALEX.BIRYUKOV@UNIL.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Cryptology and/or security of information systems
Tegawendé BISSYANDE	TEGAWENDE.BISSYANDE@UNIL.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Software engineering, software security, program repair, NLP and AI for code
Jean BOTEV	JEAN.BOTEV@UNIL.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Collaborative Socio-Technical Systems, Mediated Reality, Virtual Reality, Augmented Reality, Human-Computer Interaction
Pascal BOUVRY	PASCAL.BOUVRY@UNIL.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	High Performance Computing (HPC) Parallel Computing and Optimisation
Mats BRORSSON	MATS.BRORSSON@UNIL.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Cloud Computing, Parallel Computing, Computer Architecture, Computer Systems, Machine learning
Jordi CABOT	JORDI.CABOT@EXT.UNIL.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Informatique	Computer Science with a special emphasis on software engineering and AI (and how one impacts the other). Keywords: low-code, open-source, language engineering, software modeling, ethics, Generative AI
German CASTIGNANI	GERMAN.CASTIGNANI@EXT.UNIL.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Informatique	AI, Data Science, Vehicular Technologies, Wireless Networking, Data Spaces Technologies, Digital Twins
Symeon CHATZINOTAS	SYMEON.CHATZINOTAS@UNIL.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Communication Systems, Networking, Satellite Communications, 6G, Quantum Communications
Maxime CORDY	MAXIME.CORDY@UNIL.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	- Artificial intelligence - Machine learning - Software engineering - Software trustworthiness - Model checking
Jean-Sébastien CORON	JEAN-SEBASTIEN.CORON@UNIL.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Cryptographie LACS
Marcos DA SILVEIRA	MARCOS.DASILVEIRA@EXT.UNIL.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Informatique	Artificial Intelligence, Knowledge Engineering, Ontologies, Semantic Web, Graph Technologies
Grégoire DANOY	GREGOIRE.DANOY@UNIL.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	artificial intelligence, optimisation, swarm intelligence, metaheuristics, Unmanned Autonomous Systems, automated algorithm design
Vladimir DESPOTOVIC	VLADIMIR.DESPOTOVIC@EXT.UNIL.LU	LIH LUXEMBOURG INSTITUTE OF HEALTH	Informatique	Biomedical signal processing; Medical image processing; Bioinformatics
Thomas ENGEL	THOMAS.ENGEL@UNIL.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Computer Networking, Network and System Security, Vehicular Communications (V2X), Machine Learning, Distributed Systems, Quantum Networking, Telecommunications

Sébastien FAYE	SEBASTIEN.FAYE@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Informatique	5G-6G wireless networking, wireless network design and planning, connected mobility, mobile and ubiquitous computing
Jérôme FRANCOIS	JEROME.FRANCOIS@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Networking; Cybersecurity; Artificial Intelligence; Machine Learning; Network softwarization
Raphaël FRANK	RAPHAEL.FRANK@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Connected and Automated Driving
Gilbert FRIDGEN	GILBERT.FRIDGEN@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Information Systems Engineering
Mohammad GHONIEM	MOHAMMAD.GHONIEM@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Informatique	Visual Analytics Information Visualization Software Visualization Data Visualization Human-Computer Interaction
Nicolas GUELF	NICOLAS.GUELF@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Software engineering, requirements engineering, intelligent systems, software engineering for neural networks, formal methods, semi-formal methods, dependable systems, concurrent systems modeling
Vu Nguyen HA	VU-NGUYEN.HA@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	His research interests include radio resource management (RRM) and emerging enabling technologies for 5G wireless systems with a special emphasis on heterogeneous small-cell networks, Cloud RAN, massive MIMO communications, mobile edge computing, 802.11ax WiFi, beam-hopping, SatCom, Semantic Communications. He also aims to apply Machine Learning/Deep Learning and Optimization-based tools/solutions for RRM problems in MAC/PHY layers of several wireless communication systems.
Andreas HEIN	ANDREAS.HEIN@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Space Systems Engineering - disruptive future space systems
Anis KACEM	ANIS.KACEM@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Computer Vision; Pattern Recognition; Machine Learning; Artificial Intelligence;
Carlos KAVKA	CARLOS.KAVKA@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Informatique	Optimisation, Decision Making, Business Processes
Pierre KELSEN	PIERRE.KELSEN@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Software Engineering, Formal Methods
Djamel KHADRAOUI	DJAMEL.KHADRAOUI@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Informatique	ICT Security Risk Management Information and Communication Technology Enterprise Informatics Enterprise Risk Management
Jacques KLEIN	JACQUES.KLEIN@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Software engineering, Software Security, Artificial Intelligence, Natural Language Processing,
Sylvain KUBLER	SYLVAIN.KUBLER@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Internet of Things, Networking, Artificial Intelligence, Engineering, Decision Support Systems
Eva LAGUNAS TARGARONA	EVA.LAGUNAS@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	General Wireless Communications, Satellite Communications, Network optimization, Radio Resource Management
Yves LE TRAON	YVES.LETRAON@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	software engineering applied machine learning software security software testing
Luis LEIVA	LUIS.LEIVA@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Human-Computer Interaction, Machine Learning, Information Retrieval, Natural Language Processing
Gabriele LENZINI	GABRIELE.LENZINI@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Computer Security, Security analysis and design, Sociotechnical Systems, Privacy / Transparency technology, Online deception, GDPR compliance solutions.
Franck LEPREVOST	FRANCK.LEPREVOST@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Algorithmic Number Theory, rypotology
Valérie MAQUIL	VALERIE.MAQUIL@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Informatique	Human-Computer Interaction; Interactive Tabletops; Tangible User Interfaces; Large Interactive Surfaces; Collaboration
Réka MARKOVICH	REKA.MARKOVICH@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	computational law, formal models of legal reasoning, AI&Law, machine ethics, deontic logic and normative reasoning
Carol MARTINEZ LUNA	CAROL.MARTINEZLUNA@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Robotics; Computer Vision; Artificial Intelligence; Robotic Manipulation; Robotic Vision; Space Robotics; Machine Learning;
Sjouke MAUW	SJOUCHE.MAUW@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Security and trust of software systems
Nicolas MAYER	nicolas.mayer@ext.uni.lu	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Informatique	Cybersecurity, Information security, Compliance, Risk management
Roderick MCCALL	RODERICK.MCCALL@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Informatique	Human-computer interaction, Computer science, usability testing
Fintan MCGEE	FINTAN.MCGEE@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Informatique	Visual Analytics, Network Visualization, Immersive Analytics, Augmented Reality, Information Visualization
Jorge Augusto MEIRA	JORGE.MEIRA@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Machine Learning, Software Engineering, Databases, Big Data
Juan Carlos MERLANO DUNCAN	JUAN.DUNCAN@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Electrical Engineering Digital Electronics Electronics and Communication Engineering Information and Communication Technology Communication Engineering
Decebal Constantin MOCANU	DECEBAL.MOCANU@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Machine Learning, Artificial Neural Networks, Deep Learning

Wassila MTALAA	WASSILA.MTALAA@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Informatique	Optimization_Operations Research_Metaheuristics_Intelligent Transport Systems_Vehicle Routing Problems_Location Problems_Planning and Scheduling
Volker MÜLLER	VOLKER.MULLER@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Computational number theory Algorithms for mathematics
Bhavani Shankar MYSORE RAMA RAO	BHAVANI.SHANKAR@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Signal Processing, Wireless Communications, Satellite Systems, Radar Systems, Fast Algorithms
Yannick NAUDET	YANNICK.NAUDET@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Informatique	* Cyber-Physical Systems (Cognitive and Social) * Human Digital Twin * Human-centric systems
Nicolas NAVET	NICOLAS.NAVET@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Dependable systems, real-time systems, risk assessment
Konstantinos NTONTIN	KOSTANTINOS.NTONTIN@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Performance analysis of wireless communication networks, multiple-antenna communication systems, transceiver design, reconfigurable intelligent surfaces
Miguel Angel OLIVARES MENDEZ	MIGUEL.OLIVARES MENDEZ@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Unmanned aerial systems, computer vision, sensor fusion, vision-based control, soft-computing control techniques and robotics and automation
Hichem OMRANI	HICHEM.OMRANI@EXT.UNI.LU	LISER LUXEMBOURG INSTITUTE OF SOCIO-ECONOMIC RESEARCH	Informatique	Cellular Automata Land Cover Fuzzy Land Use Modelling Residential Mobility
Björn OTTERSTEN	BJORN.OTTERSTEN@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Signal processing Wireless communications
Maria Rita PALATTELLA	MARIARITA.PALATTELLA@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Informatique	Communication Networks; Internet of Things (IoT), Satellite Networks; Integrated IoT satellite networks, 5G-6G systems; resource allocation and scheduling techniques; MAC protocol optimisation
Jun PANG	JUN.PANG@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Modelling and analysis of complex systems, formal methods, information security & privacy, social media mining, machine learning (mainly on graph representation learning), computational systems biology, complex networks (such as social, biological, technological networks), data science
Michail PAPADAKIS	MICHAIL.PAPADAKIS@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	AI, Software Engineering, Software Security, Evolutionary Computation
Fabrizio PASTORE	FABRIZIO.PASTORE@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Software Engineering
Cedric PRUSKI	CEDRIC.PRUSKI@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Informatique	Artificial Intelligence, knowledge engineering, semantic web
Jorge QUEROL	JORGE.QUEROL@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Wireless communications, Satellite communications, Satellite navigation, Remote sensing
Peter ROENNE	PETER.ROENNE@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Cryptography Applied Security
Steffen ROTHKUGEL	STEFFEN.ROTHKUGEL@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Distributed collaborative systems, Educational technologies
Andy RUPP	ANDY.RUPP@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Provable Security, Cryptographic Protocols, Cryptographic Primitives with Advanced Properties, Privacy-Enhancing Technologies, Location Privacy, Payment Systems, Anonymous Communication, Lawful Interception
Peter Y A RYAN	PETER.RYAN@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Information assurance/security, cryptography, secure voting systems
Jose Luis SANCHEZ LOPEZ	JOSELUIS.SANCHEZLOPEZ@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Robotics, Aerial Robotics, Ground Robotics, Autonomus Systems, Multi-robot systems, Artificial Intelligence, Situational Awareness, Simultaneous Localization and Mapping, Perception, Machine Learning, Computer Vision, Trajectory Planning, Motion Control, Trajectory Tracking
Christoph SCHOMMER	CHRISTOPH.SCHOMMER@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Artificial Intelligence, Natural Language Processing, Machine Learning and its application, Cognitive Systems, Data Science, Knowledge Discovery, Information Retrieval - and its applications in Medicine, Humanities, and Finance.
Seung Yeob SHIN	SEUNGYEOB.SHIN@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Software Engineering, Model-Driven Engineering, Simulation, Testing, Model Checking, Metaheuristic Search, Machine Learning
Ulrich SORGER	ULRICH.SORGER@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Digital communication, Error correcting codes, Information theory
Jean-Sébastien SOTTET	JEAN-SEBASTIEN.SOTTET@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Informatique	Software Engineering, System Modelling, Human-Computer Interaction
Radu STATE	RADU.STATE@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Network Management and Cyber Security
Bernard STEENIS	BERNARD.STEENIS@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Microelectronics
Qiang TANG	QIANG.TANG@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Informatique	Security Encryption Cryptography Information Security Data Security
Martin THEOBALD	MARTIN.THEOBALD@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Databases, Data Mining, Information Retrieval, Big Data Analytics

Ion TURCANU	ION.TURCANU@EXT.UNI.LU	LIST LUXEMBOURG INSTITUTE OF SCIENCE AND TECHNOLOGY	Informatique	Cooperative and Distributed Networked Systems Next-generation wireless networks (5G/6G, Wi-Fi 7/8) Network communication protocols Vehicular Networks Cooperative, Connected, and Automated Mobility Time-Sensitive Networking
Leon VAN DER TORRE	LEON.VANDERTORRE@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Computer science, artificial intelligence, knowledge representation and reasoning, social robotics, legal informatics
Marcus VÖLP	MARCUS.VOELP@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Computer science, resilient computing, operating systems, dependability, real-time systems, cyber-physical systems
Holger VOOS	HOLGER.VOOS@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Control Engineering, Automation, Robotics, Autonomous Vehicles, Industry 4.0, Space Systems, Cybersecurity
Thang Xuan VU	THANG.VU@UNI.LU	SnT – Interdisciplinary Centre for Security, Reliability and Trust	Informatique	Wireless communications systems, Signal processing and machine learning for communications, Beyond 5G, Integrated Terrestrial/Satellite Networks
Denis ZAMPUNIERIS	DENIS.ZAMPUNIERIS@UNI.LU	FACULTY OF SCIENCE, TECHNOLOGY AND MEDICINE	Informatique	Battery Level, Robotic System, Anaerobic Threshold, Beats Per Minute, Cardiac Patients, Cardiac Rehabilitation, Cardiac Rehabilitation Program, Control Mode, Creation Time, Database Schema, Decision-making Scenarios, Destination Point, Development In Patients, Example Of Implementation, Exercise Sessions, Global Scenarios, Health Parameters, Heart Arrhythmia, Heart Rate Reserve, Heart Rate Values, IT Systems, Independent Tasks, Inertial Unit, Learning Management System, Level Of Expertise