

Erasmus Mundus+ DEPEND Summer School 2019 - Nancy

Monday July 1st

LORIA building – room A008

8:30 - 9:00 Welcome session

9:00 – 10:30 Invited talk: Simon Perdrix - LORIA, CNRS, Nancy

Title : Introduction to Quantum Computing

10:30 - 11:00 Tea/Coffee break

11:00 - 13:00 Internship presentations - session 1

- Dongmin Zhou (Lorraine University)
Graph-based Proof Search in Bi-Intuitionistic Logic
- Ali Kumail (Lorraine University)
Model-based Development of Programmable Electronic Medical Systems
- Kseniia Iankina (Lorraine University)
Compilation of distributed algorithms
- Viktor Sergeev (Lorraine University)
Bounded model checking of liveness properties of TLA+ specifications

13:00 - 14:15 Lunch break

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14:15 – 15:45 Internship presentations - session 2

- Bakhtiar Bakhautdinov (St. Andrews University)
Automated treatment Plan Checking
- Md Saad Memon (St. Andrews University)
Porting and Optimization of an Intelligent Personal Assistant Suite on High-Performance Embedded Systems
- Enda O'Shea (St. Andrews University)
POS Tagging with Machine Learning to determine Unknown Words

15:45 - 16:00 Tea/Coffee break

16:00 – 16:30 Internship presentations - session 3

- Idris Abdulhameed Oyebo (St. Andrews University)
Processing Low-Resource Languages: A Case of the Yoruba Language

16:30 - 17:30 Invited talk: Yamine Ait-Ameur - IRIT, CNRS, Toulouse

Title: A formal model for system substitution. Application to Web services compensation

17:45 - Welcome reception – LORIA building

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Tuesday July 2nd

LORIA building - room A008

8:30 - 9:30 Internship presentations - session 4

- Cristian Vargas Montero (St. Andrews University)
Improving Bladder Cancer Prognosis Using Machine Learning and partial Statistics of Key Biomarkers
- Sheida Rahnamai Kordasiabi (St. Andrews University)
Recurrent Neural Network based Optimization of Deep Neural Networks

9:30 – 10:30 Invited talk: Simon Perdrix - LORIA, CNRS, Nancy

Title : Diagrammatic Quantum Reasoning

10:30 - 11:00 Tea/Coffee break

11:00 – 12:30 Invited Talk: Sylvain Ruhault - Renault, France

Title: Security of connected vehicles

12:45 – 14:00 Lunch break

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14:00 - 15:30 Invited Talk: David Deharbe - CLEARSY Systems Engineering, France

Title: Formal Verification in the Industry

15:30 – 15:45 Tea/Coffee break

15:45 - 16:45 Internship presentations - session 5

- Sakina Fatima (Maynooth University)
Fault model for verification of data integrity in a spreadsheet view

- Abdul Wahab (Maynooth University)
Smart Parking: IoT and Blockchain

16:45 – 17:45 Invited Talk: Yulia Samoylova - Accenture London, UK

Title: Scaled Agile Frameworks

17:45 - 18:30 Poster session

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Wednesday July 3rd

LORIA building – room A008

9:00 - 10:30 Invited Talk: Paolo Zuliani - School of Computing, Newcastle University

Title: Verified Probabilistic Reachability in Parametric Hybrid Systems

10:30 - 11:00 *Tea/Coffee break*

11:00 – 12:30 Invited Talk: Stephen Brown - Maynooth University

Title: CPU Vulnerabilities: Are Modern Architectures Dependable?

12:45 – 14:00 Lunch break

14:00 – 15:00 Invited Talk: Chris Brown - Saint Andrews University

Title: Type-Verification of Non-functional Properties

15:00 – 15:30 Research activities in LORIA and in the Department of Formal Methods

15:30 - 15:45 *Tea/Coffee break*

15:45 – 17:45 Visits of LORIA platforms and demonstrations

20:30 - Social Dinner

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Thursday July 4th

LORIA building – room A008

9:00 – 10:30 Invited Talk: Hans van Ditmarsch – LORIA, CNRS, Nancy

Title: Dynamic Epistemic Logic - Introduction

10:30 - 11:00 Tea/Coffee break

11:00 – 12:00 Invited Talk: Fabien Lauer, - LORIA, UL, Nancy

Title: A brief introduction to artificial intelligence and machine learning

12:00 – 13 :00 Invited Talk: Nikita Vasilenko - ING Wholesale Banking, NL

Title: Data science at ING

13:00 – 14:00 Lunch break

14:00 – 15 :00 Invited Talk: Joe Timoney - Maynooth University

Title: Programming for musical sound synthesis: an introduction

16:30 – 19:00 Social event in the city center

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Friday July 5th

LORIA building – room A008

9:00 – 10:30 Invited Talk: Hans van Ditmarsch – LORIA, CNRS, Nancy

Title: Dynamic Epistemic Logic - Applications

10:30 - 10:45 Tea/Coffee break

10:45 – 11:45 Invited Talk: Paul Gibson, Telecom Sud Paris

Title: Global software engineering

11:45– 12:45 Invited Talk: Juliana Bowles, Saint Andrews University

Title: Security and Privacy of Medical Data: Challenges for Next-Generation Patient-Centric Healthcare Systems

12:45– 13:00 Summer School closing

13:00 – 14:00 Lunch



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