Monday July 1st

LORIA building – room A008

8:30 - 9:00 Welcome session

9:00 – 10:30 *I*nvited 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

- Bakhtiiar 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 Oyebode (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

8:45 - 9:45 Invited Talk: Yulia Samoylova - Accenture London, UK

Title: Scaled Agile Frameworks

9:45 – 10:45 Invited talk: Simon Perdrix - LORIA, CNRS, Nancy

Title : Diagrammatic Quantum Reasoning

10:45- 11:15   Tea/Coffee break

11:15 – 12:45   Invited Talk: Sylvain Ruhault - Renault, France

Title: Security of connected vehicles

12:45 – 14:00   Lunch break

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 4

- ➢ 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   Internship presentations - session 5

- ➢ Cristian Vargas Montero (St. Andrews University)
  Improving Bladder Cancer Prognosis Using Machine Learning and patial Statistics of Key Biomarkers

- ➢ Sheida Rahnamai Kordasiabi (St. Andrews University)
   Recurrent Neural Network based Optimization of Deep Neural Networks

17:45 - 18:30   Poster session

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Wednesday July 3nd

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 **R**esearch 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