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

- Ksenia lankina (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
14:15 – 15:45 Internship presentations - session 2

- Bakhtiari 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
Erasmus Mundus+ DEPEND
Summer School 2019 - Nancy

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 spatial 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
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


   Title:  Scaled Agile Frameworks

17:45 - 18:30  Poster session
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
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
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


   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