ICFCA 2019 Programme

• Tuesday, 25.06.2019

  – 08:30 – 09:15 Registration & reception
  – 09:15 – 09:30 Opening (Room 109)
  – 09:30 – 13:00 Workshop Applications and Tools of FCA
    (Room 109 / Chairs: Diana Cristea & Florence Le Ber)
  – 09:30 – 13:00 Workshop BigFCA (Parallel session in room 111 /
    Chairs: Rokia Missaoui & Leonard Kwuida)
  – 13:00 – 14:00 Lunch (Mensa)
  – 14:00 – 16:00 Tutorial: Relational Data in Formal Concept Ana-
   lysis (Room 109)
  – 16:00 – 16:30 Coffee Break / Tool demonstrations
  – 16:30 – 18:30 Tutorial: Attribute Exploration - Software Needed
    (Room 109)

• Wednesday, 26.06.2019

  – 08:30 – 09:15 Registration
  – 09:15 – 09:30 Opening talk: Prof. Dr. Martina Klärle, Vice Presi-
    dent of Frankfurt UAS
  – 09:30 – 10:30 Invited talk: Taxonomy learning revisited – Steffen
    Staab / Chair: Baris Sertkaya
  – 10:30 – 11:20 Session I (Theory) / Chair: Florence Le Ber
  – 11:20 – 11:50 Coffee break
  – 11:50 – 12:50 Session II (Theory) / Chair: Diana Cristea
  – 12:50 – 14:00 Lunch (Mensa)
  – 14:00 – 15:00 Invited talk: Learning Horn Formulas and Impli-
    cations from Data and from Queries – Sergei Obiedkov / Chair:
    Sebastian Rudolph
  – 15:00 – 15:50 Session III (Methods & Applications)
  – 15:50 – 16:20 Coffee break
  – 16:20 – 17:40 Session IV (Methods & Applications) / Chair: Karl
    Erich Wolff
• Thursday, 27.06.2019
  – 09:00 – 10:00 Invited talk: Knowledge Graphs – Markus Krötzsch / Chair: Bernhard Ganter
  – 10:00 – 10:50 Session V (Theory) / Chair: Tom Hanika
  – 10:50 – 11:20 Coffee break
  – 11:20 – 12:20 Session VI (Theory) / Chair: Sergei Kuznetsov
  – 12:20 – 13:20 Meeting of the ICFCA editorial board
  – 12:20 – 13:20 Lunch
  – 13:20 – 14:00 Session VII (Enhanced FCA) / Chair: Leonard Kwuida
  – 15:30 – 17:40 Social event: Boat trip on Main
  – 18:00 – 19:30 Social event: Guided tour in Sachsenhausen
  – 20:00 – 23:00 Conference dinner

• Friday, 28.06.2019
  – 09:00 – 10:00 Invited talk: Hybrid Exploratory Explainable Knowledge Discovery – Amedeo Napoli / Chair: Sebastian Ferré
  – 10:00 – 10:50 Session VIII (Methods & Applications)
  – 10:50 – 11:10 Coffee break
  – 11:10 – 12:30 Session IX (Methods & Applications) / Chair: Manuel Ojeda-Aciego
  – 12:30 – 13:20 Lunch
  – 13:20 – 14:40 Session X (Enhanced FCA) / Chair: Marianne Huchard
  – 14:40 – 15:00 Closing

• All regular talks take place in room 109.
• Long talks: 25 minutes + 5 minutes for questions.
• Short talks: 15 minutes + 5 minutes for questions.
• **Session I** (Wednesday 26.06.2019 10:30 – 11:20)
  - **10:30 – 11:00** Direct and Binary Direct Bases for One-set Updates of a Closure System. Kira Adaricheva and Taylor Ninesling.

• **Session II** (Wednesday 26.06.2019 11:50 – 12:50)
  - **12:20 – 12:50** Dualization in lattices given by implicational bases. Oscar Defrain and Nourine Lhouari.

• **Session III** (Wednesday 26.06.2019 15:00 – 15:50)
  - **15:00 – 15:30** On-demand Relational Concept Analysis. Alexandre Bazin, Jessie Carbonnel, Marianne Huchard, Giacomo Kahn, Priscilla Keip and Amirole Ouzerdine.
  - **15:30 – 15:50** Sampling Representation Contexts with Attribute Exploration. Víctor Codocedo, Mehdi Kaytoue, Amedeo Napoli and Jaume Baixeries.

• **Session IV** (Wednesday 26.06.2019 16:20 – 17:40)

• **Session V** (Thursday 27.06.2019 10:00 – 10:50)
  - **10:00 – 10:30** Joining Implications in Formal Contexts and Inductive Learning in a Horn Description Logic. Francesco Kriegel.
  - **10:30 – 10:50** Conceptual Alignment with Formal Concept Analysis. Uta Priss.
• **Session VI** (Thursday 27.06.2019 11:20 – 12:20)

• **Session VII** (Thursday 27.06.2019 13:20 – 14:00)
  - 13:40 – 14:00 A Study of Boolean Matrix Factorization Under Supervised Settings. Tatiana Makhalova and Martin Trnecka.

• **Session VIII** (Friday 28.06.2019 10:00 – 10:50)
  - 10:00 – 10:30 Parallelization of the GreConD Algorithm for Boolean Matrix Factorization. Petr Krajča and Martin Trnecka.
  - 10:30 – 10:50 Discovering Implicational Knowledge in Wikidata. Tom Hanika, Maximilian Marx and Gerd Stumme.

• **Session IX** (Friday 28.06.2019 11:10 – 12:30)

• **Session X** (Friday 28.06.2019 13:20 – 14:40)
  - 14:20 – 14:40 Preliminary Results on Mixed Integer Programming for Searching Maximum Quasi-Biclques and Large Dense Biclusters. Dmitry Ignatov.