



INVESTMENTS IN EDUCATION DEVELOPMENT

Scientific stay TU Dresden, Germany

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Jun 2, 2012 - August 30, 2012

Place

- Technical University Dresden, Germany – 1828, “excellence university”, 36 500 students, 15 faculties, 5 schools, largest in Saxony
- Institute of Algebra, Department of Mathematics, Faculty of Science, School of Mathematics and Natural Sciences



Figure: TU Dresden, Algebra Institute

Place

- Technical University Dresden, Germany – 1828, “excellence university”, 36 500 students, 15 faculties, 5 schools, largest in Saxony
- Institute of Algebra, Department of Mathematics, Faculty of Science, School of Mathematics and Natural Sciences
- research areas: foundations and applications of algebra, in particular general algebra, theory of ordered sets and lattices and graph theory
- function and relation systems and formal concept analysis (FCA): FCA basics (main theorem, Ganter’s NextClosure algorithm, book Ganter B., Wille R.: Formal Concept Analysis. Mathematical Foundations. Springer, Berlin, 1999), application of FCA in data analysis and (conceptual) knowledge processing
- at present 11 people (from that 4 professors) and 5 PhD students (1 under supervision also from other university)

Place - TU Dresden, Algebra Institute





- colleagues (S. E. Schmidt, Ch. Zschalig) and PhD students (D. Borchmann, C. Glodeanu, A. Revenko, T. Schlemmer) at the institute
- research: application of FCA (besides further development of FCA theory), utilization of FCA with fuzzy attributes, drawing concept lattices, development of attribute exploration method, interconnection between FCA and rough sets etc.
- collaboration with people at UP in Olomouc, NRU HSE, Moscow (S. O. Kuznetsov), UBP Clermont-Ferrand (L. Nourine), TU Darmstadt (R. Wille) and other

Stay run

- AAA84 - 84. Arbeitstagung Allgemeine Algebra
- EPCL PhD Workshop
- Institution and International seminars
- Universal Algebra lectures
- Attendance at PhD. defense of M.Schneider - and following party as well :-)
- prof. Ganter, prof. Kuznetsov (guest), prof. Christian Sacarea (guest), Cynthia Glodeanu discussions, Artem Revenko, Daniel Borchman discussions
- Frithjof Dau, SAP - presentation and discussion about Business Intelligence and FCA in the corporate IT solutions
- leisure discussions over various related topics with further colleagues and PhD students (S. Kerkhoff, T. Schlemmer, M. Behrisch, M.Schneider)

Talks and Contacts

- Formal Concept Analysis as a framework for Business Intelligence Technologies - "Institutsseminar", 21.6.2012
- establishing new contacts and discussions of possibilities of scientific collaboration with group of prof. Ganter: C. Glodeanu and A. Revenko



Leisure - Moritzburg - Three nuts for cinderella



Conclusion

- the stay fulfilled its purpose
- possibilities of new scientific collaboration with one of the main centers in the area of formal concept analysis (FCA)
- given a talk on scientific seminar

