

Dr.-Ing. Dragan Milosevic

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Curriculum Vitae



Personal Data

Name Dr. Dragan Milosevic
Date of Birth 6 Mai, 1975
Place of Birth Jagodina, Serbia

Professional Experience

- 04/2011-present **Lead Architect Distributed Computing**, Zanox.de AG, Berlin
- Planning and coordination of architecture topics for distributed processing and delivery of data
 - Coordination and mentoring young developers
 - Research:
 - Data processing: Hadoop, Hive, Pig, Mahout, Avro, Flume, Oozie, Map & Reduce-Side Joins, OLAP Cube
 - NoSQL: HBase, Casandra
 - Search systems: Lucene, Solr, Lily
 - Coordination systems: Zoo Keeper
 - Development:
 - Complex data analyses with Hadoop
 - Distributed reporting systems with Lucene
 - Self-healing distributed search components
 - Programming:
 - Programming languages: Java, SQL, Web-Services, Hive-QL, Pig Latin, MDX, JUnit, PowerMock, Unix
 - Tools: Eclipse, Maven, Jenkins, Hudson, Luke, JBoss, Cygwin, VMPlayer, MsSQL
- 01/2008-03/2011 **Senior Architect**, Zanox.de AG, Berlin
- Research:
 - Data processing: Hadoop, Map-Reduce
 - Data mining: K-Means und Canopy clustering, Rule-based categorisation of products
 - Search systems: Lucene
 - Development:
 - Hadoop based categorisation and indexing
 - Distributed product search with Lucene
 - Distributed Lucene-based reporting systems
 - Programming:
 - Programming languages: Java, EJB, SQL, HQL
 - Tools: Eclipse, Ant, Maven, FTP, JBoss, JUnit, MySQL, MsSQL, Karmasphere, Luke, SOAP-UI

- 06/2006-12/2007 **Senior Research Scientist**, DAI-Lab, Technical University Berlin
- Planning and coordination of research projects
 - Mentoring and guidance of students
 - Research:
 - Information retrieval: Index-based, LSI, PCA, SOM, Resource-based combination techniques
 - Recommendation systems: Collaborative, Content and Hybrid filtering systems
 - Distributed programming: P2P, Resource management
 - Teaching:
 - Smart information filtering and filtering services
 - Intelligent agent-based systems
 - Programming:
 - Programming languages: Java, JSF, XML, HTML
 - Tools: Eclipse, Weka, Jama, Lucene, mvnForum, whirlyCache, Hibernate, MySQL, Maven, JBoss, SAX
- 01/2002-05/2006 **Postgraduate Researcher**, DAI-Lab, Technical University Berlin
- Mentoring and guidance of students
 - Research:
 - Information retrieval: n-gram-based, Index-based, SOM, Multi-lingual SOM
 - Machine learning : Evolution programming, Inductive- und analytical learning, Gradient-based learning, Neural networks, Decision trees
 - Data mining: Hierarchical-, Partition- und Hybrid clustering techniques, Association rule mining
 - User modelling: Naive-Bayesian classifier, Implicit und pseudo user-feedback
 - Programming:
 - Programming languages: Java, SQL, JSP, HTML
 - Tools: Eclipse, MySQL, Ant, SAX-Parsers, Mail-API, Log4J, JUnit, Weka, Jama, Lucene, Tomcat
- 04/2000-10/2001 **Teaching Assistant**, University of Nis, Serbia
- Mentoring and guidance of students
 - Research:
 - Symbolic programming: Automatic theorem proving, Hyper-geometrical functions
 - Decision diagrams: BDD, FDD, FFT
 - Teaching:
 - Logical programming
 - Programming techniques und database systems
 - Programming:
 - Programming languages: C/C++, Mathematica, Lisp
 - Tools: MS Visual Studio, Mathematica Workbench

- 11/2001-12/2001 **Visiting scientist and DAAD fellow**, Computing Science, Dortmund
 10/2000-12/2000 University
- Research:
 - Decision diagrams: BDD, FDD, FFT, Fuzzy DD
 - Programming:
 - Programming languages: C/C++
 - Tools: MS Visual Studio
- 07/2000-06/2001 **Part-time worker**, RistanCase, Zürich
- Research:
 - Embedded systems: Designing language for testing embedded C programs
 - Programming:
 - Programming and modelling languages: C/C++, UML
 - Tools: Borland Developer Studio, MS Visio

Professional Skills und Competences

- Languages
- Serbian (native)
 - English (fluent, TOEFL 577/650)
 - German (very good)
 - French (basic)
- Competences
- Capability to independently develop and model domain-specific and fault-tolerant distributed search systems
 - Working in multi-culture teams and international cooperation
 - Experience in project management
 - Involved in teaching and mentoring

Education

- 06/2006 Obtaining Dr.-Ing. degree (very good)
 Title: *Coordinating Filtering Strategies in Cooperative Agent Communities*
 Supervisor: Prof. Dr. Sahin Albayrak, Technical University Berlin
 Prof. Dr. Klaus Obermayer, Technical University Berlin
- 2002-2006 Working on Ph.D. thesis, Technical University Berlin
- 09/2001 Obtaining M.Sc. degree (10.00/10.00)
 Title: *Program Generator and Verifier of Symbolic Orthogonal Polynomials and Recursive Relations*
 Supervisor: Prof. Dr. Lazar Djordjevic, University of Nis, Serbia
 Prof. Dr. Gradimir Milovanovic, University of Nis, Serbia
- 1999-2001 Working on M.Sc., University of Nis, Serbia

