

IdeaConsult Ltd.
4 A. Kanchev str.
Sofia 1000, Bulgaria

+359 886802011
Jeliazkova.nina@gmail.com
www.ideaconsult.net

Dr. Nina Jeliazkova

Present position

Technical Manager at Ideaconsult Ltd. since 2009. Founder and co-owner of IdeaConsult Ltd. Developer of several open source software products, in particular Toxtree (toxic hazard estimation), Toxmatch (chemical similarity and read across), Ambit (web based and standalone QSAR decision support system with chemical structures database). Had a leadership role in the OpenTox framework design and implementation OpenTox FP7 project (set of distributed web services for predictive toxicology, providing unified access to toxicity data and predictive models by semantic technologies). Currently is leading the Data Warehouse work package of the ToxBank FP7 project, which develops the data infrastructure of the SEURAT-1 (Safety Evaluation Ultimately Replacing Animal Testing-1) research cluster, funded by EC and Cosmetics Europe and comprised of more than 70 partners.

Research interests

chemoinformatics, data mining, QSAR, data integration, semantic technologies

Publications

<http://scholar.google.com/citations?user=2eBL2WMAAAAJ&hl=en>

Professional experience

2009-present

Technical Manager at Ideaconsult Ltd.

2003-2009

Associate professor at the Institute of Parallel Processing, Bulgarian Academy of Science, Sofia, Bulgaria

2002-2003

Scientist at Central Product Safety department, Procter & Gamble Brussels, Belgium

1996-2001

Researcher at Central Laboratory of Parallel Processing, Bulgarian Academy of Science, Sofia, Bulgaria

1996-2001

Collaborator and software developer with the Laboratory of Mathematical Chemistry, University "Prof.A.Zlatarov", Bourgas, Bulgaria

1991-1995

Local Area Networks team leader; Software developer at the oil refinery Neftochim, Bourgas, Bulgaria (now Lukoil Neftochim)

Education

2001 PhD in Computer Science, Sofia, Bulgaria. Thesis "Novel computer methods for molecular modelling"

1991 M.Sc. in Computer Science, Institute for Fine Mechanics and Optics, St. Petersburg, Russia

Research projects

1. Partner in EC FP7 HEALTH.2010.4.2.9 Alternative Testing Strategies SEURAT program, ToxBank (<http://www.toxbank.net>) project, WP1 (Data Warehouse) leader, in progress;
2. Partner in EC FP7 CADASTER project, Project Reference Number 212668 (2009-2012).
3. Partner in EC FP7 OpenTox (<http://www.opentox.org>) project, Project Reference Number Health-F5-2008-200787 (2008-2011). WP2 (Framework Implementation) leader;
4. Development of a computer tool used in the application of the threshold of toxicological concern (TTC) concept, Toxtree (<http://toxtree.sourceforge.net>), funded by European Chemicals Bureau (ECB);
5. Development of a software tool to encode and apply chemical similarity indices, (http://ihcp.jrc.ec.europa.eu/our_labs/computational_toxicology/qsar_tools/toxmatch)
6. AMBIT (<http://ambit.sourceforge.net>): Building blocks for future (Q)SAR decision support system: databases, applicability domain and structure conversions; open source public domain software (LGPL), funded by CEFIC LRI, 2004 – 2006; 2008 - 2009;
7. Implementation of a tailor-made web accessible database (<http://qsardb.jrc.it/qmrf>) using building blocks from the AMBIT software. It became a reference site for retrieving robust summaries of (Q)SAR models in the QSAR Model Reporting Format (QMRF).

Teaching

Computer Graphics, Computer architectures, Operating Systems, Internetworking at Technical University-Sofia, New Bulgarian University-Sofia, American College-Sofia, BG.

Languages

Bulgarian (mother tongue), English (fluent), Russian (fluent), French (basic)