



## Russian Computer Scientists, Local and Abroad Mobility and Collaboration

Andrei Mogoutov, EUSP, Russian Federation and IFRIS, France;  
Vincent Lepinay, EUSP, Russian Federation and SciencesPo, France;  
Jean Philippe Cointet, INRA Sens, France  
Lionel Villard, ESIEE and IFRIS, France

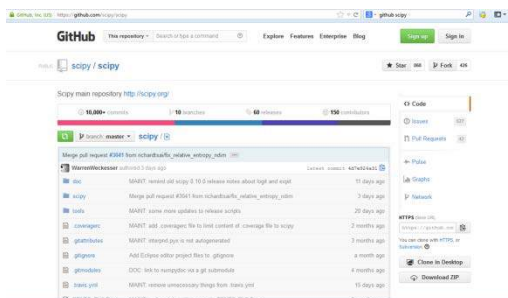
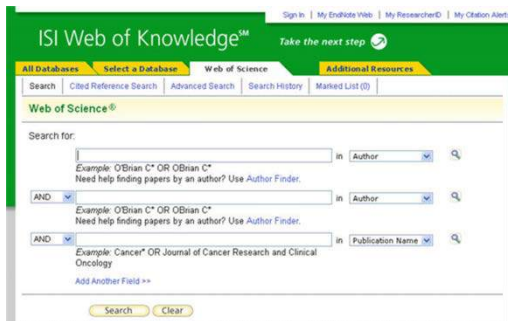
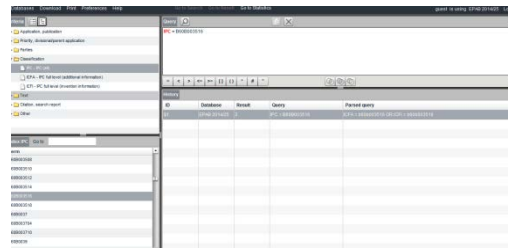
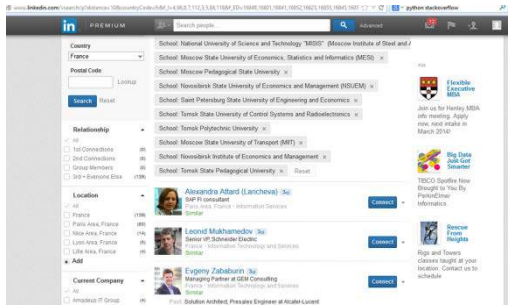
# Data bases

- Professional network (LinkedIn)
- Patents (PatStat, IT related industrial applications)

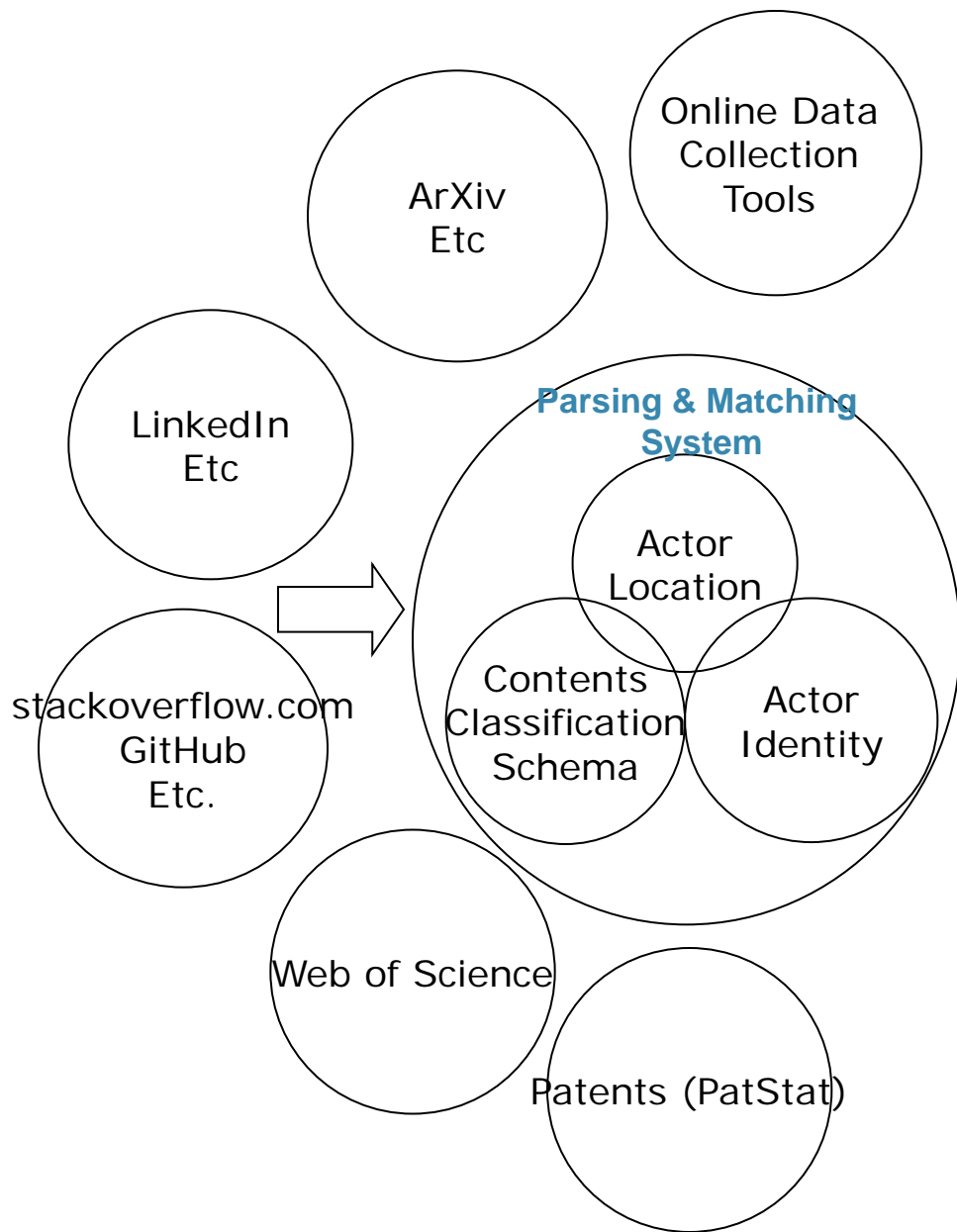
- Scientific publications (Computer Science)

- Open Source projects (GitHub)

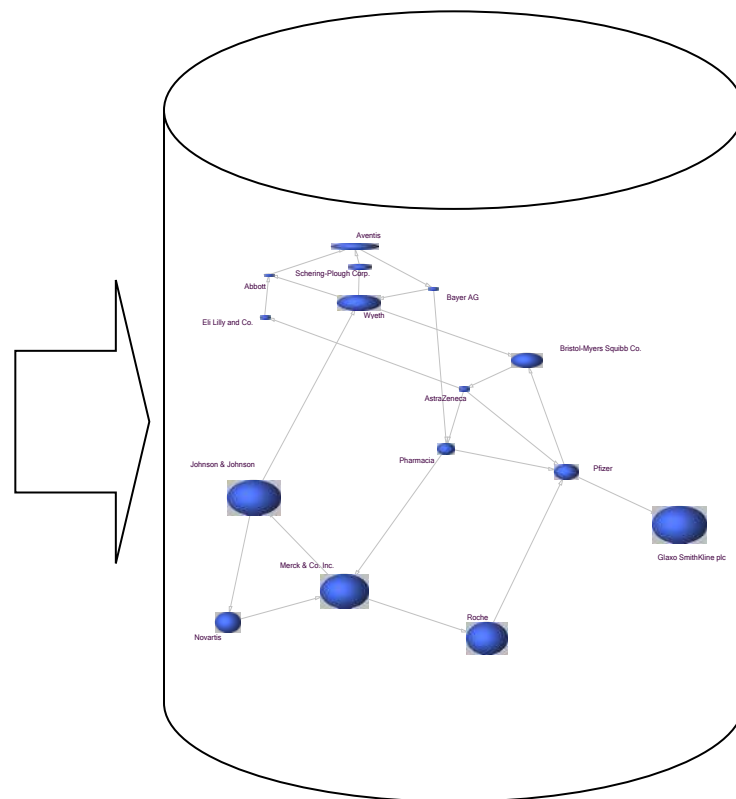
<http://manager.cortext.net> Project: migration



# Heterogeneous Data Sets: Back Office




## NETWORK ORIENTED DATABASE



# Web Of Science

Sign In | My EndNote Web | My ResearcherID | My Citation Alerts

## ISI Web of Knowledge<sup>SM</sup>

Take the next step 


All Databases | Select a Database | **Web of Science** | Additional Resources

Search | Cited Reference Search | Advanced Search | Search History | Marked List (0)

### Web of Science<sup>®</sup>

Search for:

in **Author**   
*Example: O'Brian C\* OR OBrian C\**  
Need help finding papers by an author? Use [Author Finder](#).

**AND**  in **Author**   
*Example: O'Brian C\* OR OBrian C\**  
Need help finding papers by an author? Use [Author Finder](#).

**AND**  in **Publication Name**   
*Example: Cancer\* OR Journal of Cancer Research and Clinical Oncology*

[Add Another Field >>](#)

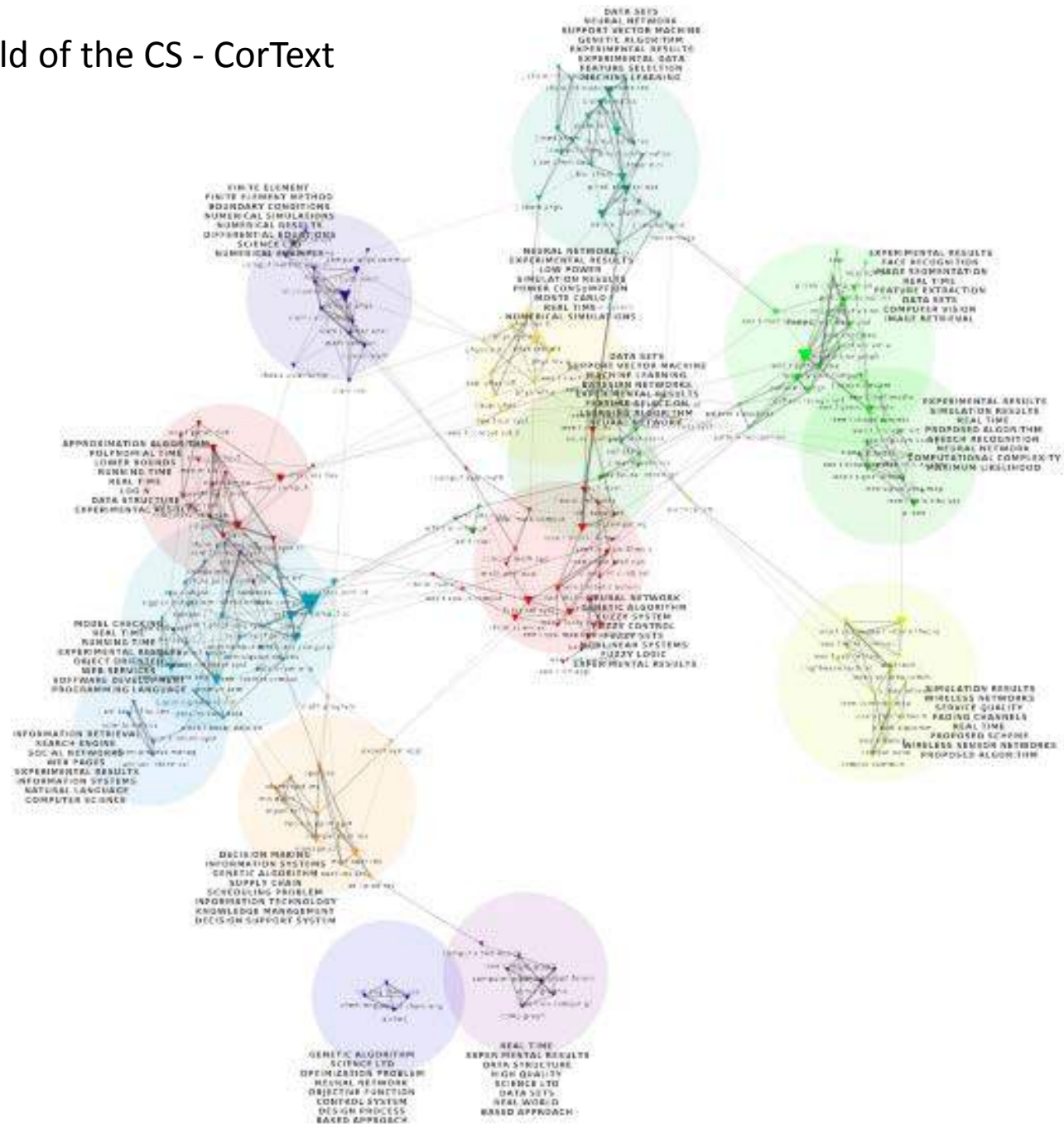
# Web Of Science Query: subfield search

- COMPUTER SCIENCE ARTIFICIAL INTELLIGENCE
- COMPUTER SCIENCE HARDWARE ARCHITECTURE
- COMPUTER SCIENCE INFORMATION SYSTEMS
- COMPUTER SCIENCE INTERDISCIPLINARY APPLICATIONS
- COMPUTER SCIENCE SOFTWARE ENGINEERING
- COMPUTER SCIENCE THEORY METHODS

# Related subfields

Web of Science Categories	records	% of 1788013
COMPUTER SCIENCE ARTIFICIAL INTELLIGENCE	543555	30.400
COMPUTER SCIENCE THEORY METHODS	534090	29.871
ENGINEERING ELECTRICAL ELECTRONIC	472221	26.410
COMPUTER SCIENCE INFORMATION SYSTEMS	469960	26.284
COMPUTER SCIENCE INTERDISCIPLINARY APPLICAT	373513	20.890
COMPUTER SCIENCE SOFTWARE ENGINEERING	342943	19.180
COMPUTER SCIENCE HARDWARE ARCHITECTURE	270997	15.156
TELECOMMUNICATIONS	172884	9.669
AUTOMATION CONTROL SYSTEMS	116037	6.490
MATHEMATICS APPLIED	91650	5.126
IMAGING SCIENCE PHOTOGRAPHIC TECHNOLOGY	83460	4.668
COMPUTER SCIENCE CYBERNETICS	78031	4.364
OPERATIONS RESEARCH MANAGEMENT SCIENCE	63186	3.534
INFORMATION SCIENCE LIBRARY SCIENCE	61578	3.444
ROBOTICS	48056	2.688
ENGINEERING BIOMEDICAL	39982	2.236
STATISTICS PROBABILITY	34228	1.914
MATHEMATICAL COMPUTATIONAL BIOLOGY	31350	1.753
MEDICAL INFORMATICS	29752	1.664
ENGINEERING INDUSTRIAL	29318	1.640

# Map of the field of the CS - CorText







# Countries

Countries/Territories	records	% of 1788013
USA	444557	24.863
PEOPLES R CHINA	250229	13.995
JAPAN	90587	5.066
GERMANY	89700	5.017
ENGLAND	87211	4.878
FRANCE	72904	4.077
CANADA	69522	3.888
ITALY	57385	3.209
SOUTH KOREA	50031	2.798
SPAIN	49856	2.788
TAIWAN	48939	2.737
AUSTRALIA	40867	2.286
INDIA	38458	2.151
NETHERLANDS	31143	1.742
BRAZIL	19737	1.104
SINGAPORE	19446	1.088
POLAND	19275	1.078
SWITZERLAND	19046	1.065
ISRAEL	18891	1.057
GREECE	17605	0.985
BELGIUM	16515	0.924
SWEDEN	16328	0.913
AUSTRIA	15126	0.846
IRAN	14921	0.835
FINLAND	13989	0.782
TURKEY	12893	0.721
PORTUGAL	12321	0.689
SCOTLAND	11903	0.666
RUSSIA	11370	0.636

# Detect the diaspora

How to find russians outside of Russia?

- Training set of WoS publications with russian affiliations (with all affiliations in general case)
- List of all authors from Web Of Science
- Name parsing Andrei Petrov -> EI REI DREI ANDREI  
OV ROV TROV
- Naive Bayes classifier
- Find Specific Features by country (RU: OV, EV, IN, SKII etc)
- For each name find most probable nationality
- Compare the actual nationality with the estimated

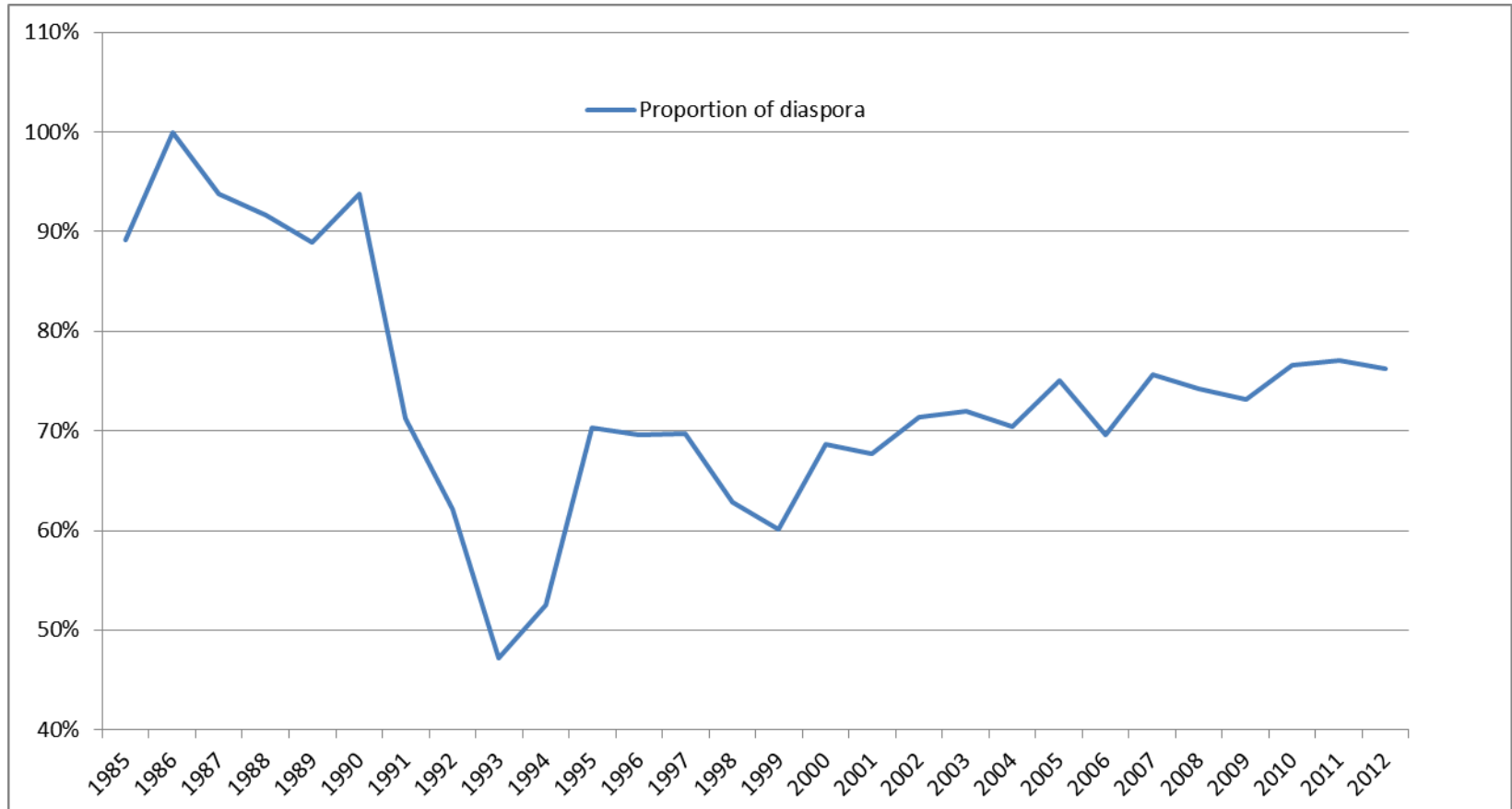
# Countries of Diaspora

Estimated nationality	Affiliation	Number of authors		
russia	russia	3085		33%
russia	usa	1564	1564	
russia	germany	535	2099	
russia	uk	445	2544	
russia	canada	262	2806	
russia	france	252	3058	
russia	ukraine	244	3302	
russia	israel	200	3502	
russia	bulgaria	186	3688	
russia	spain	184	3872	
russia	netherlands	183	4055	
russia	italy	159	4214	
russia	australia	147	4361	
russia	finland	113	4474	
russia	india	92	4566	
russia	mexico	90	4656	
russia	switzerland	89	4745	
russia	byelarus	84	4829	
russia	czech republic	81	4910	
russia	japan	80	4990	
russia	austria	77	5067	
russia	sweden	73	5140	
russia	south korea	67	5207	

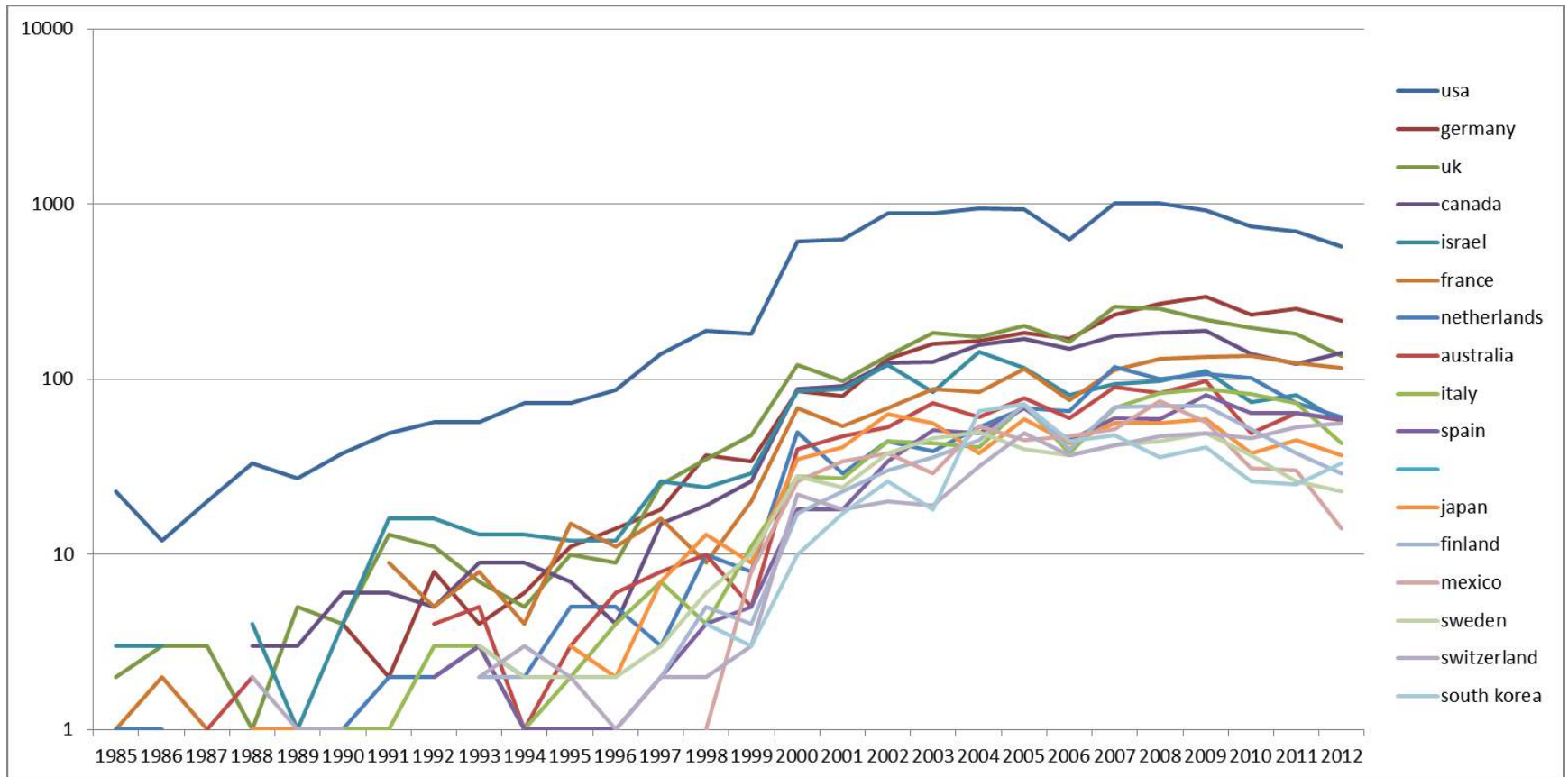
# Cities & Institutes of Diaspora

Nb by coun	Nb by city	Country	City	Institute	Nb Persons
820	32	usa	new york	columbia univ	8
820	32	usa	new york	nyu	6
820	32	usa	new york	cuny	3
820	32	usa	new york	cuny city coll	3
820	32	usa	new york	google inc	2
820	28	usa	cambridge	mit	11
820	28	usa	cambridge	harvard univ	5
820	28	usa	cambridge	schlumberger doll res ctr	2
820	28	usa	cambridge	bbn technol	2
820	28	usa	cambridge	pfizer worldwide res & dev	1
820	26	usa	boston	boston univ	8
820	26	usa	boston	brigham & womens hosp	3
820	26	usa	boston	partners healthcare	2
820	26	usa	boston	partners healthcare syst inc	2

# Size of diaspora



# Places of diaspora



# LinkedIn Premium/ Recruiting & Talent Solutions on LinkedIn

www.linkedin.com/vsearch/p?distance=10&countryCode=fr&f\_l=4,96,8,7,112,3,5,84,118&f\_ED=16848,16601,16841,16852,16623,16855,16845,1685

python stackoverflow

in PREMIUM Search people... Advanced 12

**Country**  
France

**Postal Code**  
Lookup  
Search Reset


**Relationship**  
 All  
 1st Connections (0)  
 2nd Connections (0)  
 Group Members (0)  
 3rd + Everyone Else (139)


**Location**  
 All  
 France (139)  
 Paris Area, France (80)  
 Nice Area, France (14)  
 Lyon Area, France (5)  
 Lille Area, France (4)  
+ Add


**Current Company**  
 All  
 Amadeus IT Group (4)


School: National University of Science and Technology "MISIS" (Moscow Institute of Steel and Iron) x  
School: Moscow State University of Economics, Statistics and Informatics (MESI) x  
School: Moscow Pedagogical State University x  
School: Novosibirsk State University of Economics and Management (NSUEM) x  
School: Saint Petersburg State University of Engineering and Economics x  
School: Tomsk State University of Control Systems and Radioelectronics x  
School: Tomsk Polytechnic University x  
School: Moscow State University of Transport (MIIT) x  
School: Novosibirsk Institute of Economics and Management x  
School: Tomsk State Pedagogical University x Reset


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 **Alexandra Attard (Laricheva)** 3rd  
SAP FI consultant  
Paris Area, France · Information Services  
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 **Leonid Mukhamedov** 3rd  
Senior VP, Schneider Electric  
France · Information Technology and Services  
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 **Evgeny Zababurin** 3rd  
Managing Partner at GEM Consulting  
France · Information Technology and Services  
Similar [Connect](#)  
Past: Solution Architect, Presales Engineer at Alcatel-Lucent

# Patent search

Source: Patstat

Period 1985-2011

1358098 priority patents

- Query:
- **G06 : COMPUTING; CALCULATING; COUNTING**
  - This class covers :
    - simulators which are concerned with the mathematics of computing the existing or anticipated conditions within the real device or system;
    - simulators which demonstrate, by means involving computing, the function of apparatus or of a system, if no provision exists elsewhere;
    - image data processing or generation.
  - This class does not cover :
    - combinations of writing implements with computing devices, which are covered by group B43K 29/08; [2011.01]
    - control functions derived from simulators, in general, which are covered by class G05, although such functions may be covered by the subclass of this class for the device controlled;
    - measurement or analysis of an individual variable to serve as an input to a simulator, which is covered by class G01;
    - simulators regarded as teaching or training devices which is the case if they give perceptible sensations having a likeness to the sensations a student would experience in reality in response to actions taken by him. Such simulators are covered by class G09;
    - components of simulators, if identical with real devices or machines, which are covered by the relevant subclass for these devices or machines (and not by class G09).
  - In this class, the following terms or expressions are used with the meanings indicated:
    - "data" is used as the synonym of "information". Therefore, the term "information" is not used in subclasses G06C, G06F or G06Q;
    - "calculating or computing" includes, inter alia, operations on numerical values and on data expressed in numerical form. Of these terms "computing" is used throughout the class;
    - "computation" is derived from this interpretation of "computing". In the French language the term "calcul" will serve for either term;
    - "simulator" is a device which may use the same time scale as the real device or operate on an expanded or compressed time scale. In interpreting this term models of real devices to reduced or expanded scales are not regarded as simulators;
    - "record carrier" means a body, such as a cylinder, disc, card, tape, or wire, capable of permanently holding information, which can be read-off by a sensing element movable relative to the recorded information.
  - Attention is drawn to the Notes following the title of section G, especially as regards the definition of the term "variable".



# Detect the diaspora

How to find russians outside of Russia?

- Training set of Patstat patents with country of inventors
- List of all inventors from PatStat
- Name parsing Andrei Petrov -> EI REI DREI ANDREI  
OV ROV TROV
- Naive Bayes classifier
- Find Specific Features by country (RU: OV, EV, IN, SKII etc)
- For each name find most probable nationality
- Compare the actual nationality with the estimated

# Names with ethnicity

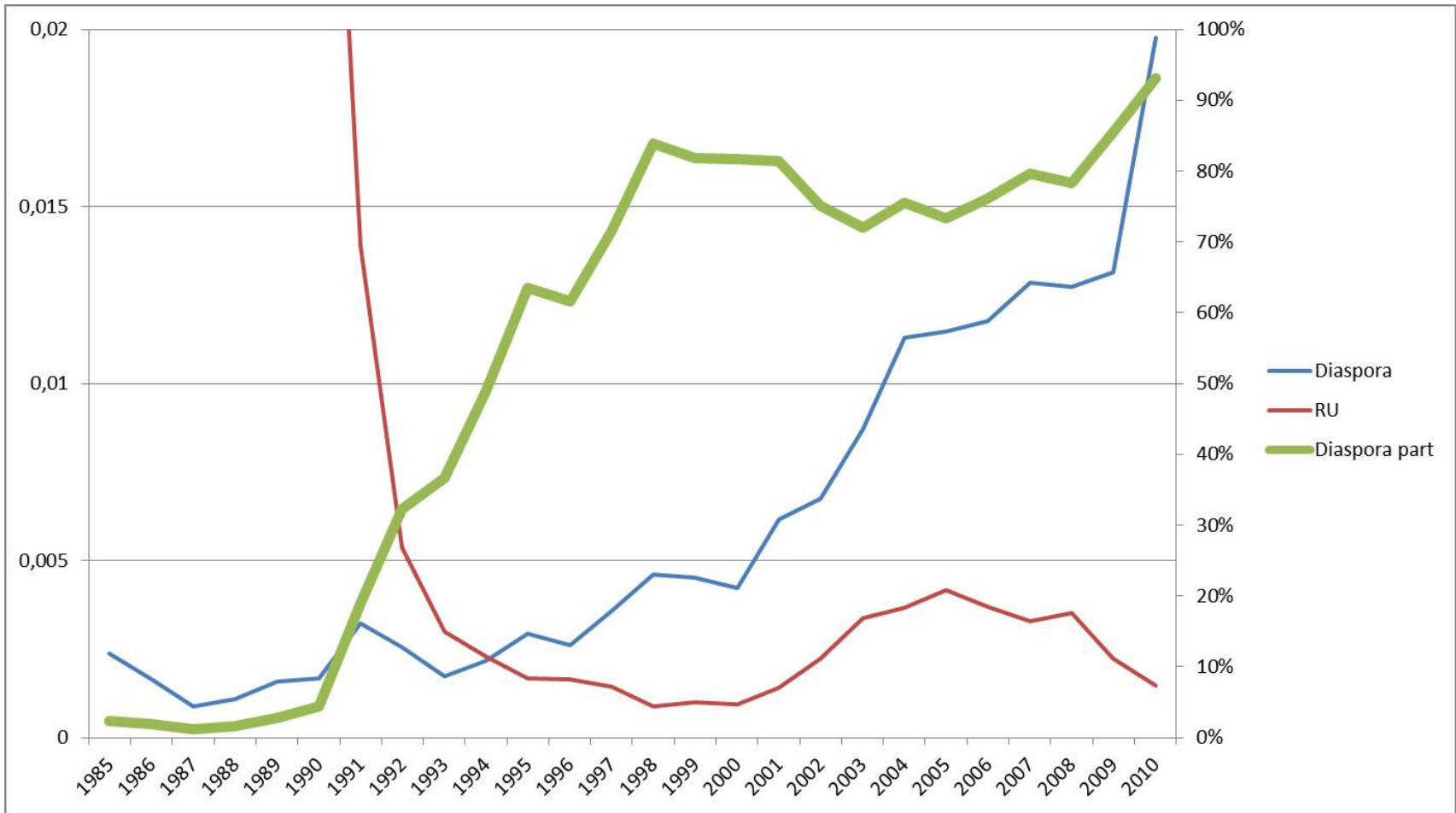
•	Champ1	Champ2	Champ3	Champ4	
•	RATCHEV	BORIS	RU		100
•	KIRICHENKO	ALEXANDER F	RU		99
•	KIZUB	OLEKSANDR	RU		99
•	CHABOUROV	VIKTOR	RU		99
•	VAPNIK	VALDIMIR N	RU		100
•	SHILSHUT	RADIMIR	RU		99
•	VASSILEV	APOSTOL T	RU		97
•	BOURAKOV	VENIAMIN	RU		100
•	KOSTADINOV	VLADIMIR	RU		99
•	MOISEYENKO	STANISLAV	RU		99
•	DEMJANENKO	VICTOR	RU		100
•	DAVIDKOVICH	VLADISLAV	RU		100
•	LIDIN	SERGEY RU		77	
•	SMIRNOV	DMITRI	RU		100
•	LELIKOV	ANDREY	RU		99
•	GERMANENKO	IGOR	RU		100
•	VOSKOBOYNIK	AMIR	RU		99
•	VINOGRADOV	GEORGY K	RU		100
•	CHUBAREV	PAVEL	RU		100
•	POTYRAILO	RADISLAV A	RU		99
•	TABAROVSKY	OLEG	RU		99
•	STUROV	GLEB	RU		100
•	KOZMINSKY	ANITA	RU		60
•	SKURATOVSKY	ILYA	RU		99
•	CHIRIAEV	DMITRI V	RU		100
•	RADIELOVIC	ALBINA	RU		99
•	GETSIN	EVGENIY M	RU		100
•	BULYONKOV	MIKHAIL	RU		100
•	VINOKUROV	DMITRI	RU		100
•	BALIGA	PRIYARU		99	
•	YABLONOVITCH	MAX	RU		99
•	MEDVEDEV	IVAN	RU		99
•	CHTCHETKINE	VLADIMIR	RU		100

# Name Ethnicity

Country	precision	recall	f1-score	support
US	0.81	0.43	0.57	787
JP	0.94	0.96	0.95	253
CN	0.84	0.94	0.88	192
KR	0.92	0.96	0.94	160
DE	0.49	0.60	0.54	101
TW	0.76	0.81	0.79	75
RU	0.85	0.93	0.89	73
EG	0.11	0.07	0.08	57
FR	0.48	0.60	0.53	52
GB	0.11	0.30	0.16	43
IN	0.22	0.59	0.31	34
SI	0.38	0.57	0.46	23
FI	0.70	0.88	0.78	16
AT	0.45	0.33	0.38	15
BE	0.00	0.00	0.00	14
IT	0.56	0.77	0.65	13
CA	0.21	0.45	0.29	11
AU	0.00	0.00	0.00	9
SG	0.25	0.43	0.32	7



# Number of patents (Ru vs. diaspora)





# Diaspora Patents Assignees

Country	Applicant	NbPatents
US	MICROSOFT CORP	1152
US	IBM	909
US	SUN MICROSYSTEMS INC	222
US	METROLOGIC INSTR INC	199
US	INTEL CORP	149
US	LSI LOGIC CORP	103
US	SYMBOL TECHNOLOGIES INC	84
US	MOTOROLA INC	74
US	HEWLETT PACKARD DEVELOPMENT CO	73
US	YAHOO INC	64
US	EMC CORP	58
US	ORACLE INT CORP	55
US	SYMANTEC OPERATING CORP	54
US	CITRIX SYSTEMS INC	54
CA	RESEARCH IN MOTION LTD	95
CA	IBM CANADA	27
CA	ONTARIO INC 2012244	22
CA	ATI TECHNOLOGIES INC	21
CA	COREL CORP	20
CA	SEMICONDUCTOR INSIGHTS INC	18
CA	ATI TECHNOLOGIES ULC	16
CA	COGNOS INC	11
IL	SANDISK CORP	10
IL	SANDISK IL LTD	10
IL	FREESCALE SEMICONDUCTOR INC	8
DE	SAP AG	173
DE	SIEMENS AG	35
DE	INFINEON TECHNOLOGIES AG	24
DE	THOMSON BRANDT GMBH	11
DE	FREESCALE SEMICONDUCTOR INC	10
DE	FRAUNHOFER GES FORSCHUNG	9
DE	NANOPHOTONICS AG	6
GB	ADVANCED RISC MACH LTD	18
GB	ACRONIS INC	14
GB	SWSOFT HOLDINGS LTD	9
GB	EBS GROUP LTD	8
KR	SAMSUNG ELECTRONICS CO LTD	107
KR	LG ELECTRONICS INC	7
KR	KORPORATSJA SAMSUNG EHLEKTRON	4
KR	KORPORATSJA S1	4

# LinkedIn Premium/ Recruiting & Talent Solutions on LinkedIn

www.linkedin.com/vsearch/p?distance=10&countryCode=fr&f\_l=4,96,8,7,112,3,5,84,118&f\_ED=16848,16601,16841,16852,16623,16855,16845,1685 python stackoverflow

**in** PREMIUM Search people... Advanced 12

**Country**  
France

**Postal Code**  
Lookup  
Search Reset


**Relationship**  
 All  
 1st Connections (0)  
 2nd Connections (0)  
 Group Members (0)  
 3rd + Everyone Else (139)


**Location**  
 All  
 France (139)  
 Paris Area, France (80)  
 Nice Area, France (14)  
 Lyon Area, France (5)  
 Lille Area, France (4)  
+ Add


**Current Company**  
 All  
 Amadeus IT Group (4)


School: National University of Science and Technology "MISIS" (Moscow Institute of Steel and Iron) x  
School: Moscow State University of Economics, Statistics and Informatics (MESI) x  
School: Moscow Pedagogical State University x  
School: Novosibirsk State University of Economics and Management (NSUEM) x  
School: Saint Petersburg State University of Engineering and Economics x  
School: Tomsk State University of Control Systems and Radioelectronics x  
School: Tomsk Polytechnic University x  
School: Moscow State University of Transport (MIIT) x  
School: Novosibirsk Institute of Economics and Management x  
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Senior VP, Schneider Electric  
France · Information Technology and Services  
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 **Evgeny Zababurin** 3rd  
Managing Partner at GEM Consulting  
France · Information Technology and Services  
Similar [Connect](#)  
Past: Solution Architect, Presales Engineer at Alcatel-Lucent



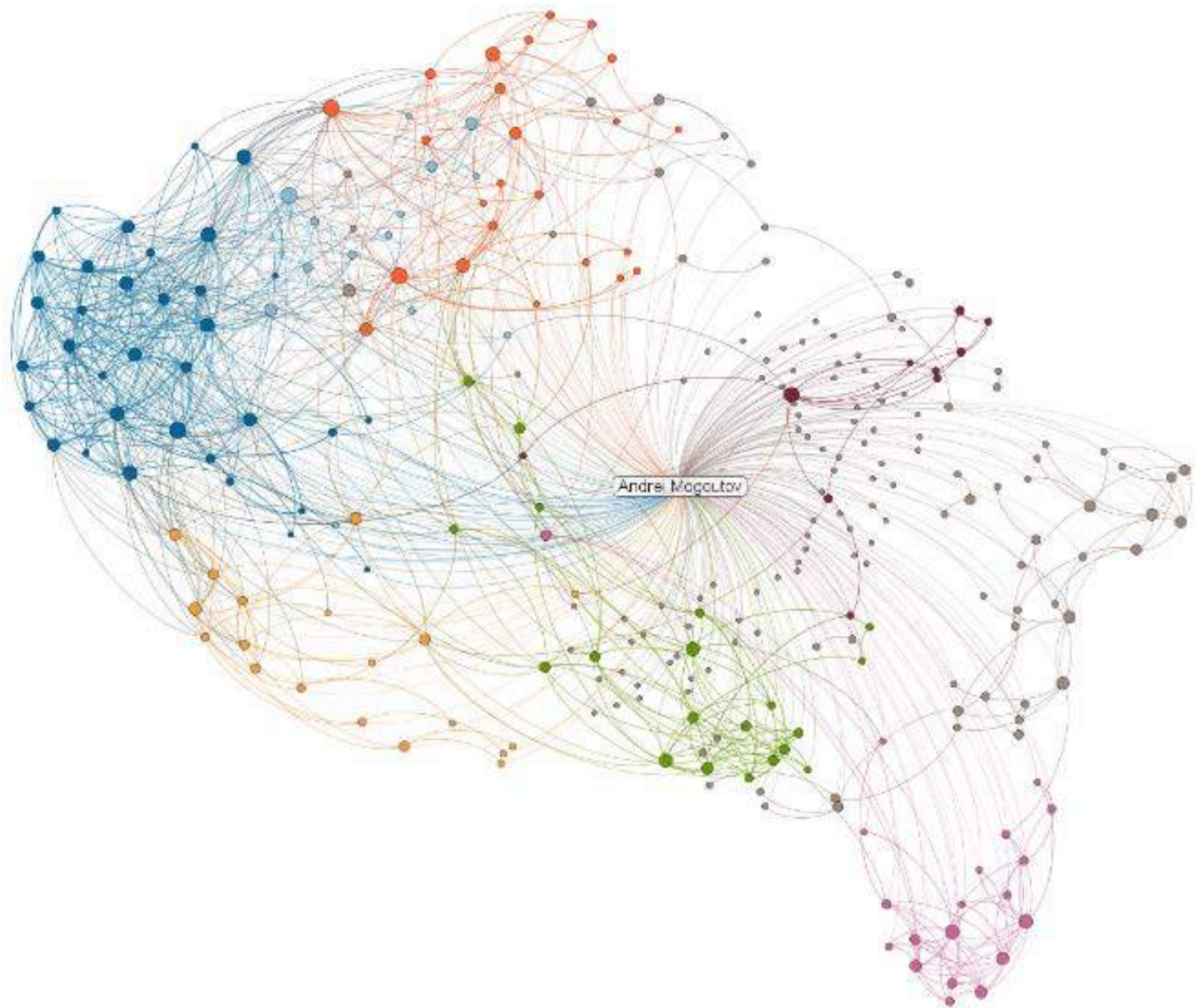
# LinkedIn search

## Industry:

Information Technology and Services  
Computer Software  
Telecommunications  
Electrical/Electronic Manufacturing  
Information Services  
Semiconductors  
Computer Networking  
Computer & Network Security  
Computer Hardware

## School:

Lomonosov Moscow State University (MSU)  
Saint Petersburg State University  
Bauman Moscow State Technical University  
Moscow Institute of Physics and Technology (State University) (MIPT)  
Novosibirsk State University (NSU)  
Saint Petersburg State Polytechnical University  
Saint Petersburg University of Telecommunications  
Saint Petersburg State Electrotechnical University "LETI"  
Moscow Power Engineering Institute (Technical University)  
Moscow State Linguistic University  
Saint Petersburg State University of Finance and Economics  
Tomsk State University  
Tomsk Polytechnic University  
Moscow State Institute of Electronics and Mathematics (Technical University)  
National University of Science and Technology "MISIS" (Moscow Institute of Steel and Alloys)  
Moscow Pedagogical State University  
Novosibirsk State University of Economics and Management (NSUEM)  
Novosibirsk State Technical University (NSTU)  
Saint Petersburg State University of Engineering and Economics  
Tomsk State University of Control Systems and Radioelectronics  
Moscow State University of Economics, Statistics and Informatics (MESI)  
Moscow State University of Transport (MIIT)  
Novosibirsk Institute of Economics and Management  
Tomsk State Pedagogical University



# Database

Country	FF Name	PositionFull	Location	Industry	Anstract
Ukraine	L<Anton Filkevych	Director, Engineering at EPAM	Ukraine	Computer Software	
Netherlands	L<Maria Skvortsova	QA Engineer at eVision Industry	Amsterdam Area, Netherlands	Computer Software	
Netherlands	L<Roman Kapustin	Sales Director, Huawei	Amsterdam Area, Netherlands	Telecommunications	
Netherlands	L<Roman Kapustin	Sales Director, Huawei	Amsterdam Area, Netherlands	Telecommunications	
Austria	L<Irina Reitgruber	Head product management for European gas and power	Austria	Computer Software	
Austria	L<Jenny Boiko	Marketing Trainee at Cisco	Austria	Information Technology and Services	Marketing Assistant at ProsigmaSoftwareDevelopment GmbH
Spain	L<LinkedIn Member	Project Manager Transformation and Transition bei T-	Barcelona Area, Spain	Information Technology and Services	
Germany	L<Katia Safonova	Marketing Manager CIS & MEA at Corning Cable	Berlin Area, Germany	Telecommunications	
Germany	L<Alexander Savelyev	T24 Technical Consultant at LFS Financial	Berlin Area, Germany	Information Technology and Services	
Italy	L<Serge Korolev	Development Team Lead presso Dalet Digital Media	Brescia Area, Italy	Information Technology and Services	SeniorSoftwareEngineer at R-Net EDI Corp. -Sacramento, USA
Australia	L<Ruslan Gerasimov	Engineer at Topcon Positioning	Brisbane, Australia	Information Technology and Services	SoftwareEngineer at Topcon PositioningSystems
Australia	L<Andrey Vishnevsky	MS AX Developer at Scalable Data	Brisbane, Australia	Computer Software	
Australia	L<Sergey Alexeev	Product Manager at Scalable Data	Brisbane, Australia	Information Technology and Services	
Australia	L<Sergey Alexeev	Product Manager at Scalable Data	Brisbane, Australia	Information Technology and Services	
Canada	L<Arthur Shcheglov	Senior Ruby-developer at Weekends.	Canada	Computer & Network Security	Senior Ruby-developer at Zelenski CorporateTravelSolutions-Egencia Russia
Australia	L<Elena Artamonova	Technical Writer at Recruitment	Canberra, Australia	Information Technology and Services	
Australia	L<Elena Artamonova	Technical Writer at Recruitment	Canberra, Australia	Information Technology and Services	
US	L<LinkedIn Member	Student at Trident Technical	Charleston, South Carolina Area	Computer Software	
US	L<Olga Zhitomirskaya	Adjunct Faculty at Davidson	Charlotte, North Carolina Area	Information Services	adjunct instructor at Forsyth TechnicalCommunityCollege
Germany	L<Michael Ivanov	CEM / SQM Expert at Huawei	Cologne Area, Germany	Telecommunications	
US	L<Ratmir Timahsev	President at Veeam	Columbus, Ohio Area	Computer Software	

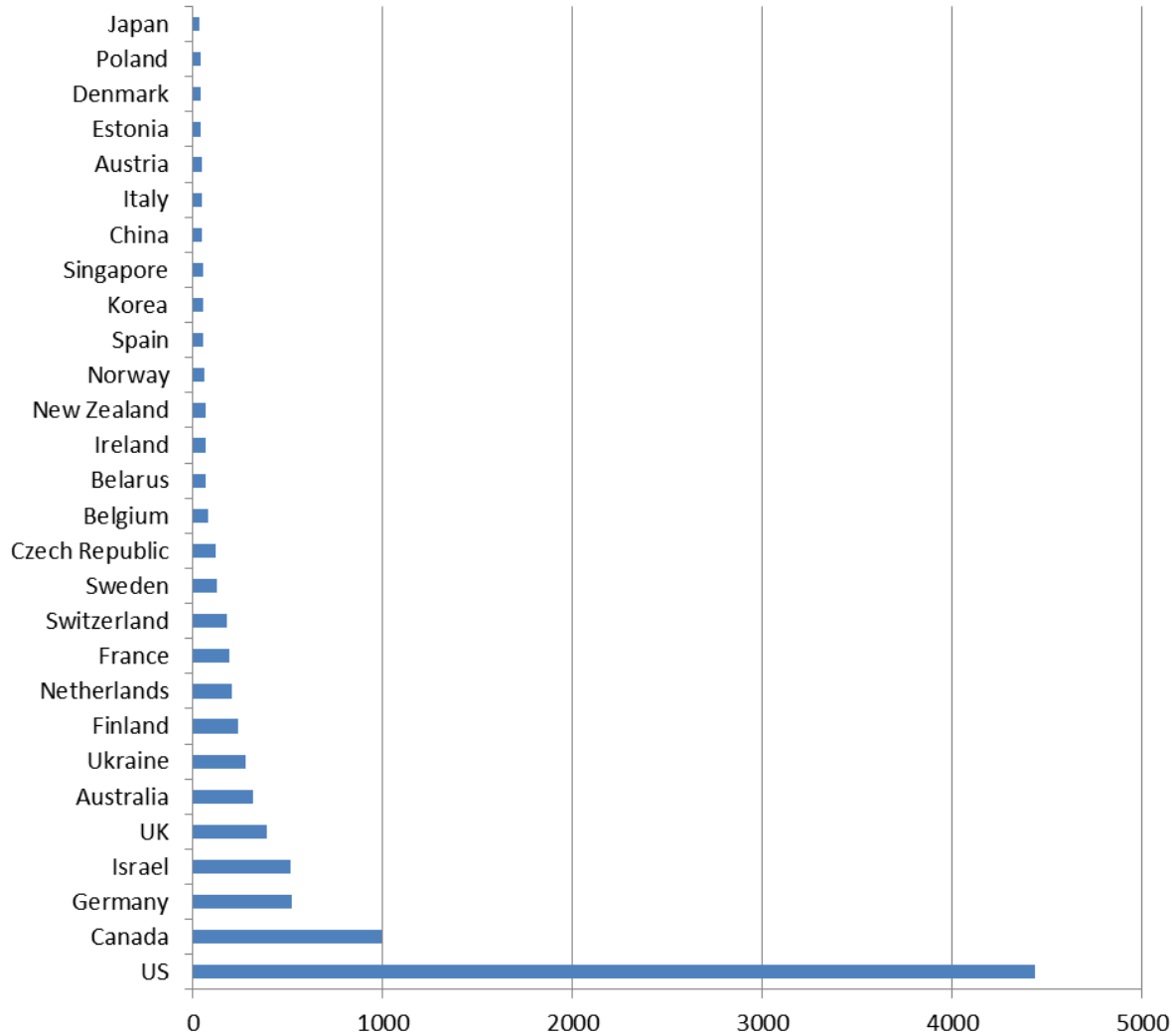
7991 records

6000 with nominal information

2000 Anonimous

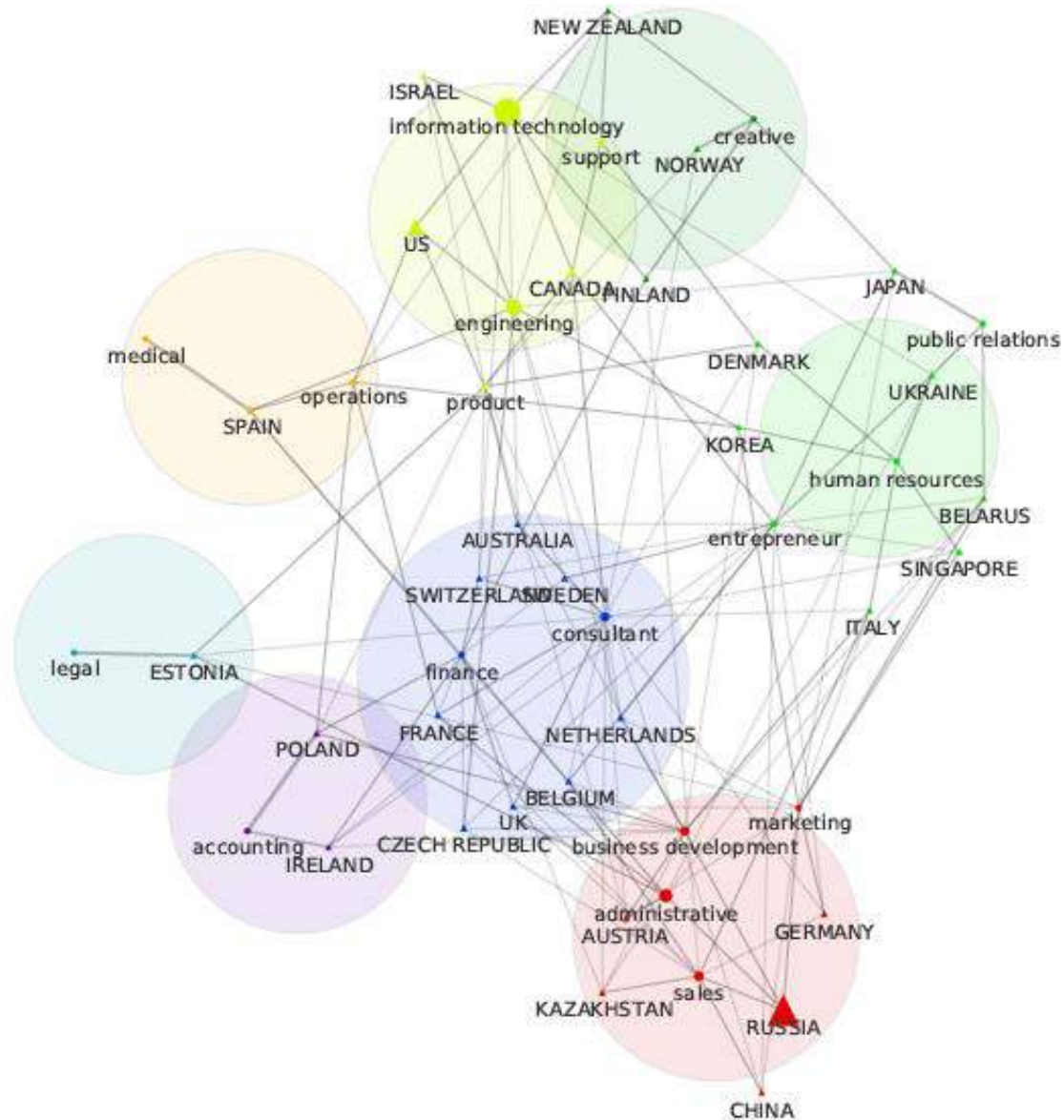
Countries with >30 records

## Number of Russian Members of LinkedIn



Russia	27078
US	4433
Canada	994
Germany	522
Israel	516
UK	391
Australia	316
Ukraine	279
Finland	236
Netherlands	204
France	193
Switzerland	176
Sweden	128
Czech Republic	122
Belgium	78
Belarus	67
Ireland	64
New Zealand	63
Norway	57
Spain	54
Korea	54
Singapore	51
China	47
Italy	47
Austria	46
Estonia	43
Denmark	43
Poland	42
Japan	33

# Countries and functions







# GitHub

GitHub

This repository ▾ Search or type a command ⓘ

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PUBLIC **scipy / scipy**

Star 868 Fork 426

Scipy main repository <http://scipy.org/>

10,000+ commits   10 branches   60 releases   150 contributors

branch: master ▾ **scipy** /

Merge pull request #3041 from richardtsai/fix\_relative\_entropy\_ndim ...

WarrenWeckesser authored 3 days ago   latest commit 4d7e924a31

doc	MAINT: remind old scipy 0.10.0 release notes about logit and expit	11 days ago
scipy	Merge pull request #3041 from richardtsai/fix_relative_entropy_ndim	3 days ago
tools	MAINT: some more updates to release scripts.	20 days ago
.coveragerc	MAINT: add .coveragerc file to limit content of .coverage file to scipy.	2 months ago
.gitattributes	MAINT: interpnd.pyx is not autogenerated	3 months ago
.gitignore	Add Eclipse editor project files to .gitignore	a month ago
.gitmodules	DOC: link to numpydoc via a git submodule	4 months ago
.travis.yml	MAINT: remove unnecessary things from .travis.yml	15 days ago
BENTO_BUILD_*	MAINT: replace tabs with spaces in BENTO_BUILD_*	6 months ago

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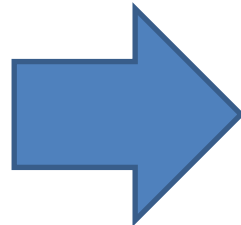


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