IDEA: SBIR Phase I: #1620992

EA4 Educational Technologies and Applications SBIR Phase I:MyPatentIdeas.com -- From Search to Research with Fast Patent-document Correlations SBIR Phase I Proposal: From search to research with fast document correlations Problem Statement (Intellectual Merit) This Small Business [...] (7591 total words; 1609 unique words; 1320 useful unique words)

[...] computing resources. We have the knowhow. We have the ambition. We now need the funding to make this happen. With the appropriate funds, we will be able to accelerate the research and commercialization process to make MyPatentIdeas.com a successful and valid patent-search service.



Key Phrases In IDEA: small business innovation research phase (1), patent documents represent prior art (1). small business innovation researcher (2), natural language processing nlp (1), pca principal components analysis (1), latent semantic analysis Isa (1), latent semantic index Isi (1), natural language processing methods (1), Isa latent semantic analysis (1), small business owner (4), term document matrix (4), patent document correlations (4), nearest neighbor patent (4), small business innovation (3), patent search service (3), smart search technologies (3), entire patent collection (3), patent documents (21), document correlations (15), patent data (12), natural language (11), query document (11), patent search (10), inputed idea (10), search service (9), patent rank (9), patent (170), search (119), document (108), terms (60), idea (57), concepts (41), technology (36)

SUBSET

In 252 seconds, 35 independent searches were performed on the COLLECTION, consisting of 2,128 phrases, 6,584 terms, and 80,782 internal queries producing a result set of 1,343 documents; that is, the SUBSET.

Key Phrases In SUBSET: field programmable gate array fpga (231), programmable data processing apparatus create (157), data processing apparatus create means (157), special purpose hardware based systems (144), application specific integrated circuit asic (173), public switched telephone network pstn (94), random access memory ram (577), local area network lan (713), wide area network wan (545), natural language processing nlp (1639), field programmable gate arrays (307), personal digital assistant pda (268)

The SUBSET consists of a total of 1,768,310 phrases. After deep scrutiny of this SUBSET using drill-down, statistical analyses, we identify the 100 most relevant documents; that is, the NEIGHBORHOOD.

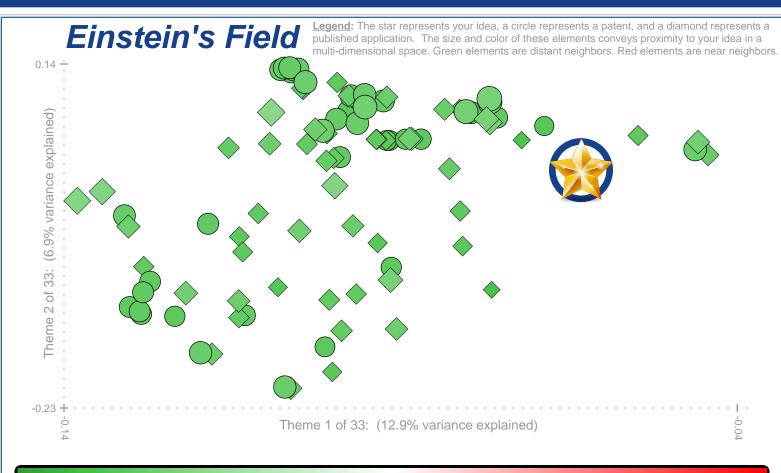
NEIGHBORHOOD

Nortel Networks Limited

Top Technologies [0.124 - diversified]

G06F	Physics => Computing => Electrical Digital Data Processing			
G06Q	Physics => Computing => Data Processing Systems Or Methods, Specially Adapted For Administrative, Commercial, Financial, Managerial, Supervisory Or Forecasting Purposes			
H04N	Electricity => Electric Communication Te Television	chnique => Pictorial Com	munication, E.g.	
Top Firms	[0.042 - diversified]	Top Inventors	[0.011 - diversified]	
Digimarc Corpora	ation	Bishop; Michael		
Rose Blush Software LLC		Short; Shannon M.		
AT&T Intellectual Property I, L.P.		McLendon; Martin L.		
Accenture LLP		Beckham; Carol T.	Bonus Mater	
THOMSON REUTERS GLOBAL RESOURCES PATTERSON THUENTE PEDERSEN, P.A.		Frank; Scott M.	Follow the QR cod	
		Rhoads; Geoffrey B.	download XLS file	
VCVC III LLC		Rivette; Kevin G.	visualization tools	
General Electric Company		Hohmann; Luke		
Aurigin Systems, Inc.		Rappaport; Irving S.		
FUJI XEROX CO., LTD.		Tran; Bao	76.70	
INTERNATIONAL BUSINESS MACHINES CORPORATION		Lundberg; Steven W.	i≟iftY	
Universidad Politecnica de Catalunya		Jackson; Adam		
			- II	

Thornthwaite: Warren



DISTANT NEIGHBOR

NEAREST NEIGHBOR



Rank	Sphinx	Pythagoras	Newton	Einstein
1	APP 20130173249	628▲ APP 20070136116 (P1)	APP 20070136116 (N1)	4▲ APP 20150310114 (E1): "METHOD, SYSTEM AND SOFTWARE FOR SEARCHING, IDENTIFYING, RETRIEVING AND PRESENTING ELECTRONIC DOCUMENTS"
2	US 8,639,495	622▲ US 7,966,328	US 7,966,328	2▲ APP 20070208719: "SYSTEMS AND METHODS FOR ANALYZING SEMANTIC DOCUMENTS OVER A NETWORK"
3	US 8,639,497	608▲ APP 20070208719	7▲ US 6,466,928	4▲ APP 20110093449: "SEARCH ENGINE AND METHODOLOGY, PARTICULARLY APPLICABLE TO PATENT LITERATURE"
4	APP 20130173256	653▲ APP 20150310114	-1▼ APP 20070208719	2▲ APP 20050210008: "Systems and methods for analyzing documents over a network"
5	US 8,688,447	605▲ APP 20050210008	-1▼ APP 20150310114	29▲ APP 20160344770: "Automatic Phishing Email Detection Based on Natural Language Processing Techniques"



62.0%	APP 20120069131	▼ low ▼
62.0%	APP 20160086108	▼ low ▼
62.0%	APP 20140201126	▼ low ▼
61.0%	APP 20140075004	▼ low ▼
(%) Similarity	of Idea as an excerpt of	relevant document

Key Phrases In NEIGHBORHOOD: small business innovation research phase (88.1), patent documents represent prior art (39.8), closely related patent documents (45.1), constructed term document matrix (43.3), approximately million patent documents (32.8), pca principal component analysis (31.5), small business innovation research (28.8), large document collections corpus (27.7), united states patent (26), relevant patent documents (25.5), national science foundation (25.4), search engine implemented (25.4), general purpose computing (25.1)