Patent Search and Analysis Report (PSAR) Reports

submitted as a part of the

PROJECT REPORT

"Personal Productivity Application"

Submitted by

PATEL AKSHARKUMAR BABULAL

In partial fulfillment for the award of the degree of

BACHELOR OF ENGINEERING

in

COMPUTER ENGINEERING
GROW MORE FACULTY OF ENGINEERING

Gujarat Technological University
Ahmedabad
December, 2014

GROW MORE FACULTY OF ENGINEERING

BERNA, HIMATNAGAR – 3830001
GUJARAT

DECLARATION

We hereby declare that the PSAR Reports, submitted along with the Project Report for the project entitled ***"Personal Productivity Application"*** submitted in partial fulfillment for the degree of **Bachelor of Engineering** in ***Computer Engineering*** to Gujarat Technological University**,** Ahmedabad**,** is a bonafide record of the project work carried out at ***Grow More Faculty of Engineering*** under the supervision *of* ***Asst. Prof. Maitrey Patel*** and that no part of any of these PSAR reports has been directly copied from any students' reports or taken from any other source, without providing due reference.

Name of The Student **Sign of Student**

Patel Aksharkumar Babulal

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CERTIFICATE

This is to certify that the PSAR reports, submitted along with the project entitled ***Personal Productivity Application*** has been carried out by ***Patel Aksharkumar Babulal*** under my guidance in partial fulfillment for the degree of: **Bachelor of Engineering** in ***Computer Engineering*** **7th Semester** of Gujarat Technological University, Ahmadabad during the academic year 2014-15. These students have successfully completed PSAR activity under my guidance.

Internal Guide **Head of the Department**

GTU - Prior Art Search

13-December-2014

Patent Search & Analysis Report (PSAR)

Team Id	:	14011
Name	:	PATEL AKSHARKUMAR BABULAL

Part - I : PATENT SEARCH TECHNIQUE USED

Patent Search Database Used	:	USPTO Patent Database
Keywords Used for Search	:	routine,daily,individuals
Search String Used	:	daily routine
Number of Results/Hits getting	:	38,419

Part - II : BASIC DATA OF PATENTED INVENTION/BIBLIOGRAPHIC DATA

Category/Field of Invention	:	COMPUTER SCIENCE &
Invention is Related to/Class of Invention	:	Data Informatics
Title of Invention	:	Determining an individuals daily routine
Patent No.	:	
Application No.	:	US 14/060,122
Date of Filing/Application	:	22/10/2013
Priority Date	:	16/02/2007
Publication/Journal Number - (Issue No. of Journal in which Patent is published)	:	US20140180993 A1
Publication Date	:	26/06/2014
First Filled Country	:	United States
Also Published as		

Country	Patent No

Applicant for Patent is	:	Company

- INVENTOR DETAIL

Name of Inventor	Address/City/Country of Inventor
John M Stivoric	Pittsburgh, PA
Eric Teller	Palo Alto, CA
David Andre	San Francisco, CA
John A Monocello III	Pittsburgh, PA

- APPLICANT/ASSIGNEE DETAIL

Name of Applicant/Assignee	Address/City/Country of Applicant
Bodymedia Inc	Pittsburgh PA

Part - III : TECHNICAL PART OF PATENTED INVENTION

Limitation of Prior Technology/Art :

Vast resources have been devoted to the sequencing of the human genetic code and to cataloging the influence of genes and other physiological traits. However, a major component of health and wellness can be attributed to the interactions of subjects with their environment, including their lifestyles. Despite the widely accepted view that lifestyle activities, such as those related to diet, exercise, sleep habits and the like, affect health and wellness, efforts to catalog those effects to date have been limited.

Specific Problem Solved/Objective of Invention :

A need exists for methods and systems that systematically catalog the effects of various human lifestyles on a wide range of outcomes; that is, a need exists to sequence the human lifestyle. The low cost and ready availability of sensors has reduced costs of collecting data. In addition, improved data integration and processing methods have allowed for use of existing data sources. However, this wealth of data has not yet led to a better overall understanding of the influence of particular lifestyles; instead, the wealth of data has overwhelmed existing systems and methods. A need exists for methods and systems that allow for systematic analysis of lifestyle data.

Brief about Invention :

The methods and systems described herein may involve determining at least one lifeotype of at least one individual, analyzing the at least one lifeotype, and delivering content to at least one individual based on the analysis. The methods and systems described herein may involve providing a game, determining at least one lifeotype of at least one player of the game, analyzing the at least one lifeotype, and affecting the game play based on the analysis. The methods and systems described herein may involve providing an interactive space, determining at least one lifeotype of at least one individual in the space, analyzing the at least one lifeotype, and modifying at least one attribute of the space based on the analysis.

Key Learning Points :

the concept of a “lifeotype” encompasses classifying human state data, or other data concerning a population or sub-population of individuals, into “types” that correspond to certain combinations of traits or aspects of human lifestyle, human status and/or human condition. In embodiments, the concept of a lifeotype may also be applied to other organisms. By analyzing patterns within and across the lifeotypes, one can draw conclusions, make inferences , and make predictions about each type that apply to the members of the type or to groups of individuals of that type.

Summary of Invention :

The invention may include methods and systems involving assembling data from at least one data source into at least one life bit, assembling the at least one life bit into at least one life byte and analyzing the at least one life byte to determine at least one lifeotype. In one embodiment, each life byte consists of a plurality of life bits, and life bytes are organized into sequences, each of which can be characterized as a life byte sequence.

Number of Claims : 9

Patent Status : Published Application

How much this invention is related with your IDP/UDP? : > 91 %

Do you have any idea to do anything around the said invention to improve it? :

The described sensors should be available inside the mobile device and the mobile applications should be developed.

GTU - Prior Art Search

13-December-2014

Patent Search & Analysis Report (PSAR)

Team Id	:	14011
Name	:	PATEL AKSHARKUMAR BABULAL

Part - I : PATENT SEARCH TECHNIQUE USED

Patent Search Database Used	:	USPTO Patent Database
Keywords Used for Search	:	goals,recommendation,activities
Search String Used	:	goal setting
Number of Results/Hits getting	:	302

Part - II : BASIC DATA OF PATENTED INVENTION/BIBLIOGRAPHIC DATA

Category/Field of Invention	:	
Invention is Related to/Class of Invention	:	Data Informatics
Title of Invention	:	Methods and systems for interactive goal setting and recommender using events having combined activi
Patent No.	:	US8620617 B2
Application No.	:	US 13/959,720
Date of Filing/Application	:	05/08/2013
Priority Date	:	30/10/2010
Publication/Journal Number - (Issue No. of Journal in which Patent is published)	:	
Publication Date	:	31/12/2013
First Filled Country	:	United States

Also Published as

Country	Patent No

Applicant for Patent is	:	Company

- INVENTOR DETAIL

Name of Inventor	Address/City/Country of Inventor
Shelten Gee Jao Yuen	Berkeley, CA
James Park	Berkeley, CA
Hans Christiansen Lee	Carmel, CA

- APPLICANT/ASSIGNEE DETAIL

Name of Applicant/Assignee	Address/City/Country of Applicant
Fitbit Inc	San Francisco CA

Part - III : TECHNICAL PART OF PATENTED INVENTION

Limitation of Prior Technology/Art :

In recent years, the need for health and fitness has grown tremendously. The growth has occurred due to a better understanding of the benefits of good fitness to overall health and wellness. Unfortunately, although today's modern culture has brought about many new technologies, such as the Internet, connected devices and computers, people have become less active. Additionally, many office jobs require people to sit in front of computer screens for long periods of time, which further reduces a person's activity levels.

Specific Problem Solved/Objective of Invention :

To provide users concerned with health and fitness a way of measuring or accounting for their activity or lack thereof, fitness tracker are often used. Fitness trackers are used to measure activity, such as walking, motion, running, sleeping, being inactive, bicycling, exercising on an elliptical trainer, and the like. Usually, the data collected by such fitness trackers can be transferred and viewed on a computing device. However, such data is often provided as a basic accumulation of activity data.

Brief about Invention :

A method for generating recommendations for achieving goals is described. The method includes receiving a goal for a user account. The goal is associated with an activity that is trackable via a monitoring device. The method further includes receiving tracking data associated with the monitoring device. At least part of the tracking data is associated to the activity. The method includes receiving geo-location data associated with the monitoring device. The geo-location data is correlated to the tracking data. The method includes analyzing the received tracking data and geo-location data to characterize a current performance metric for the activity and generating a recommendation for the user account.

Key Learning Points :

Broadly speaking, the systems and methods facilitate determination of an activity level of an activity performed by a user at a location. For example, the systems and methods can determine that the user is sedentary for a particular period of time when the user is at work. As another example, the systems and methods can determine that the user is active when the user is at home. The activity or lack of activity is therefore contextually associated to a particular location. The systems and methods determine activity levels of one or more activities performed by the user during a period of time.

Summary of Invention :

Embodiments described in the present disclosure provide systems, apparatus, computer readable media, and methods for segmenting a period of time into identification of locations of a user performing activities. This segmentation provides a way of identifying particular activities to particular locations. Using the segmentations, the systems and methods can identify one or more events that may have occurred during the period of time of activity. In one embodiment, the events can be displayed on a screen of a device, and a user is able to interactively view data concerning the events with contextual information, e.g., where certain events occurred.

Number of Claims : 29

Patent Status : Granted Patent

How much this invention is related with your IDP/UDP? : 71 to 90%

Do you have any idea to do anything around the said invention to improve it? :

Include a method for inspiring the user before achieving goals. That way the user would put into more efforts to achieve goals.

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13-December-2014

Patent Search & Analysis Report (PSAR)

Team Id	:	14011
Name	:	PATEL AKSHARKUMAR BABULAL

Part - I : PATENT SEARCH TECHNIQUE USED

Patent Search Database Used	:	USPTO Patent Database
Keywords Used for Search	:	productivity,improvement,personal
Search String Used	:	personal productivity
Number of Results/Hits getting	:	322

Part - II : BASIC DATA OF PATENTED INVENTION/BIBLIOGRAPHIC DATA

Category/Field of Invention	:	COMPUTER SCIENCE &
Invention is Related to/Class of Invention	:	Productivity
Title of Invention	:	Method and System for Improving Personal Productivity in Home Environments
Patent No.	:	
Application No.	:	US 14/084,934
Date of Filing/Application	:	20/11/2013
Priority Date	:	21/10/2010
Publication/Journal Number - (Issue No. of Journal in which Patent is published)	:	US20140080106 A1
Publication Date	:	20/03/2014
First Filled Country	:	United States
Also Published as		

Country	Patent No

Applicant for Patent is	:	Company

- INVENTOR DETAIL

Name of Inventor	Address/City/Country of Inventor
Benjamin Falchuk	Upper Nyack, NY
Shoshana K Loeb	Philadelphia, PA

- APPLICANT/ASSIGNEE DETAIL

Name of Applicant/Assignee	Address/City/Country of Applicant
Telcordia Technologies Inc	Piscataway NJ

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Part - III : TECHNICAL PART OF PATENTED INVENTION

Limitation of Prior Technology/Art :

Productivity has long been a goal for information workers and factory workers but now, with the emergence of so-called smart-homes, it has become more feasible to enable productivity and efficiency in the home. With an aging population, the dramatic increase in the size of homes, and the increased pressure on people's time, any technology focused on simplifying and decluttering the daily routines is desirable.

Specific Problem Solved/Objective of Invention :

While today's corporate productivity tools may manage tasks, contacts, and progress, there is no such system to augment productivity within the home. At the home, household tasks such as laundry, taking out the garbage, cleaning, etc. would benefit from systematic management (the user may also be in a hybrid context in which he is at home and also teleworking).

Brief about Invention :

Method and system for improving personal productivity in home environments may store state information associated with an environment and one or more users in a knowledge base, detected activity of a user, infer location of the user based on the detected activity, and suggest one or more tasks to be performed based on the inferred user location.

Key Learning Points :

while corporate systems have inventory management there is no system that helps users track the dynamically changing location of household items and their interrelationships. Also, despite smart-home advancements, fine-grain sensing and exploitation of user activity has yet to be fully realized and there is no standard for expressing the semantics of houses and the activities taking place within them. Today's typical smart home deployments do not generally attempt to be proactive, nor do they integrate with a broad range of user contexts and tasks. Smart-homes are usually comprised of a large number of kinds of sensors integrated into rooms and appliances.

Summary of Invention :

A system and method for improving personal productivity in an environment are provided. The system, in one aspect, may include a knowledge base operable to store information such as state information, rules, attributes and associations, associated with an environment, objects associated with the environment, and one or more users. A server module may be operable to detect activity of a user and infer location of the user. The server module further may be operable to suggest one or more tasks to be performed based on the detected activity or inferred user location or combinations thereof.

Number of Claims : 36

Patent Status : Published Application

How much this invention is related with your IDP/UDP? : 71 to 90%

Do you have any idea to do anything around the said invention to improve it? :

This idea should be just limited to home. It should be expanded to many other environments like business organizations, schools, etc.

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14-December-2014

Patent Search & Analysis Report (PSAR)

Team Id : 14011

Name : PATEL AKSHARKUMAR BABULAL

Part - I : PATENT SEARCH TECHNIQUE USED

Patent Search Database Used : USPTO Patent Database

Keywords Used for Search : individuals,improvement,productivity

Search String Used : improving productivity of individual

Number of Results/Hits getting : 3

Part - II : BASIC DATA OF PATENTED INVENTION/BIBLIOGRAPHIC DATA

Category/Field of Invention : COMPUTER SCIENCE &

Invention is Related to/Class of Invention : Productivity

Title of Invention : System and method for improving productivity of individual persons

Patent No. :

Application No. : US 09/829,072

Date of Filing/Application : 09/04/2001

Priority Date : 07/04/2000

Publication/Journal Number - (Issue No. of Journal in which Patent is published) : US20020002522 A1

Publication Date : 03/01/2002

First Filled Country : United States

Also Published as

Country	Patent No

Applicant for Patent is : Individual

GTU - Prior Art Search

- INVENTOR DETAIL

Name of Inventor	Address/City/Country of Inventor
John Clift	NEW YORK US

- APPLICANT/ASSIGNEE DETAIL

Name of Applicant/Assignee	Address/City/Country of Applicant
Clift John Lawrence	NEW YORK US

Part - III : TECHNICAL PART OF PATENTED INVENTION

Limitation of Prior Technology/Art :

In a business organization, each employee often works for a salary and the business organization keeps all profit generated by the employees. In a conventional medical practice, for example, one or more doctors are employed under contract to the owner of the practice. The doctors provide a gross revenue that is equivalent to the sum of each doctor's gross billings. Out of these gross billings, the practice pays each doctor a salary and pays any other costs or expenses associated with the running of the practice. Any remaining amount is retained by the owner of the practice as profit.

Specific Problem Solved/Objective of Invention :

a system and method that addresses the problems associated with the aforementioned conventional business practices. According to the principles of the present invention, a profit potential of an IBU representing a natural person in a business entity is determined by calculating the revenue and cost which are attributable to the IBU. The determined profit potential is then capitalized. The capitalized value is a tradable commodity that can be sold to a third party for a loan and is paid back to the third party from the future profit of the IBU. One method of capitalization is to add all the future profit streams over a predetermined time period. Another capitalization method is to use a discount factor to calculate a present value of the profit stream.

Brief about Invention :

The present invention considers each person or worker in an economic entity as an individual business unit ("IBU") with its own allocated revenue, cost and profit which can be controlled by the IBU. The profit allocated to the IBU belongs to the IBU itself. In effect, each IBU is valued as a business within the larger economic entity in which the IBU works. A profit potential of an IBU is determined by calculating the revenue and cost which are attributable to the IBU. The determined profit potential as capitalized over a predetermined time period becomes a tradable commodity for sale.

Key Learning Points :

As can be appreciated, each IBU's effort is now linked to its own profit potential. If the IBU decreases its allocated cost or increases its allocated revenue, the profit attributable to it increases in proportion. The increased profit in turn increases the IBU's capitalized value. As a result, each IBU has a substantial incentive to lower the cost or increase the revenue in an attempt to increase its capitalized value.

Summary of Invention :

Unlike a conventional business where individual workers work for predetermined salary and profits generated by the workers are retained by the business, the present invention considers one or more persons or workers in an economic entity as individual business units ("IBU") each with its own allocated revenue, cost and profit which can be controlled by the IBU. Unlike the conventional business, the profit allocated to the IBU belongs to the IBU itself. In effect, each IBU is valued as a business within the larger economic entity in which the IBU works.

Number of Claims : 21

Patent Status : Published Application

How much this invention is related with your IDP/UDP? : < 70 %

Do you have any idea to do anything around the said invention to improve it? :

The concept should be just limited to business practices but it should available for personal productivity practices as well.

GTU - Prior Art Search

14-December-2014

Patent Search & Analysis Report (PSAR)

Team Id : 14011

Name : PATEL AKSHARKUMAR BABULAL

Part - I : PATENT SEARCH TECHNIQUE USED

Patent Search Database Used : USPTO Patent Database

Keywords Used for Search : work,review,individuals

Search String Used : review work

Number of Results/Hits getting : 453

Part - II : BASIC DATA OF PATENTED INVENTION/BIBLIOGRAPHIC DATA

Category/Field of Invention : COMPUTER SCIENCE &

Invention is Related to/Class of Invention : Business

Title of Invention : System and business method for work-flow review and management

Patent No. : US8725549 B2

Application No. : US 10/217,019

Date of Filing/Application : 13/08/2002

Priority Date : 13/08/2001

Publication/Journal Number - (Issue No. of Journal in which Patent is published) :

Publication Date : 13/05/2014

First Filled Country : United States

Also Published as

Country	Patent No

Applicant for Patent is : Company

GTU - Prior Art Search

- INVENTOR DETAIL

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Don Fernandez	Round Hill, VA

- APPLICANT/ASSIGNEE DETAIL

Name of Applicant/Assignee	Address/City/Country of Applicant
Geologics Corporation	Alexandria, VA

Part - III : TECHNICAL PART OF PATENTED INVENTION

Limitation of Prior Technology/Art :

In the products industry, there exist many electronic (e-business) solutions to automating transactions occurring at every point along the supply chain and in the manufacturing cycle. For example, customers can purchase goods from a store through the Internet with credit cards. The store's distribution centers can automatically start order fulfillment, update their inventories and order more stock. Payments can be made electronically from the credit companies to the store's bank.

Specific Problem Solved/Objective of Invention :

The manual process of review and approval takes a great deal of time. Eventually the timesheets make their way to an accounting department, where the charges to various accounts must be collected and invoiced to the customers. Travel and other direct expenses (ODCs) are billed in the same way as timesheets, and cause similar difficulties. Correcting timesheets and other documents can be cumbersome and timeconsuming.

Brief about Invention :

A method in a computer system for paperless business work-flow review and management includes the steps of: creating an interactive document electronically; entering the interactive document into a document entry stage; electronically submitting the interactive document to a first approval level from the document entry stage, when such approval is required by a set of business rules; approving the submitted interactive document; for N levels of approval, iteratively submitting the interactive document electronically to the next approval level, up to level N, when the interactive document is approved at the previous approval level; returning the interactive document to the document entry stage when the interactive document is rejected at any of the first through N approval levels; electronically processing the interactive document at the processing level when the interactive document is approved at all required approval levels; verifying the electronic processing of the interactive document; and archiving the interactive document.

Key Learning Points :

all critical business processes such as time and expense reporting, invoicing, payment and reconciliation are automated and integrated. The related business documents, such as timesheets, expense reports, personnel actions , and invoices are created, edited, tracked and stored electronically, although they can also be printed on paper when needed. The restructuring and automation of these critical business processes reduces the time spent both on filling out and reviewing documents, and the time spent on moving the document through such processes from days or weeks to minutes.

Summary of Invention :

The business method and system of the present invention allows service companies to accelerate key transactions and increase their cash flow, and to increase profitability by significantly reducing “back -office” costs. In addition, the present invention can enhance operational effectiveness, especially in the areas of management, visibility, and reporting. The present invention also facilitates partnering with external organizations, and the operation of virtual and highly distributed organizations.

Number of Claims : 23

Patent Status : Granted Patent

How much this invention is related with your IDP/UDP? : 71 to 90%

Do you have any idea to do anything around the said invention to improve it? :

The same to method can be used for reviewing the individual's work. So the same concept can be applied many fields other than business organizations.