Technology Offer

Innovative software that manages fully automated parking billing

Summary

A Serbian company developed an innovative system that utilizes existing technologies to produce the automated parking billing system. Advantages over current parking billing systems (manual payment, SMS payment, parking) are full automation, ease of use- no user input is required, no street infrastructure needed (landlines, cables, etc), lower cost of running a parking service provider company. Company is looking for a partner for a Commercial Agreement with technical assistance.

Expiration Date	16 June 2017
Reference	TORS20141223002
Profile link	

Details

Description

Through the years providing software for parking service providers in Serbia, company has acquired significant know how in operation of parking services in general. Experienced team lead by CEO and CTO, has encountered and solved almost every problem known to this market segment.
Company is using GPS and smart parking solution to automate process of parking payment, thus reliving the end user of obligation to carry the burden of paying the parking on his mind, decrease the costs of labor (less parking wardens needed), maintaining the parking infrastructure for parking service provider.
GPS device with shaker and engine on/off alarm can easily detect if the vehicle is moving or parked. When the vehicle is parked, software will determine if the vehicle is in or out the parking zone. If the vehicle is in the parking zone, and if the time frame for stopping but not parking has elapsed, then the parking transaction will be started. When the vehicle engine is started and vehicle is moving the parking transaction will be ended.
Product has hardware and software component. Hardware component is a GPS device with the shaker (mounted In the car). It sends out the data which contains information that is used to initiate or stop the process of billing, determine is the car In the parking zone, and if yes, it's parameters, that determine the billing process.
Software component and its logic will be closely described in the following text.
The solution is based on the Linux operating system, PostgreSQL 9 DB server, Jboss 7 server. Smartphone applications will be developed for Android, iOS, Windows Phone 8, Blackberry and operating systems Java JSF with primefaces library will be used for web development (system administration and end-user administration).
Company is looking for partner for commercial agreement with technical assistance for its innovative software that manages fully automated parking billing.
Company is offering software with following components: 1. Parking service - custom defined binary, encrypted protocol which enables end user log in, start-stop parking transaction, zone determination based on GPS coordinates; 2. Parking enforcer service- custom defined binary,

encrypted protocol. Protocol enables log in/out of parking enforcer, query of active transactions for given plates, issuing a fine ticket (if applicable), re-printing fine ticket, download of predefined messages, parking lots and other system details. 3. Smartphone user service- custom defined binary, encrypted protocol which enables to return active transactions, complete user registration and uses Parking service; 4. Billing service- automatically generate parking bills, send email PDF files to end users Subscriptions and Recurring Payments- secure communication with clearing house (web) service. Basic frame will be developed without communication protocol while it depends on clearing house service; 5. Web interface, 6. Postgresql usage, 7. Smart phone applications (Android, iOS, Windows Phone 8, Blackberry), and 9. Parking enforcer application
Company is looking for partner for commercial agreement with technical assistance for its innovative software that manages fully automated parking billing.

Advantages and Innovations

Advantages of Smart parking are that it doesn't require expensive investments in infrastructure, it cuts costs of running a parking service provider, relives end user of obligation to think about paying the parking allowing the end user to go about his business worry free, thus benefiting both, the parking service providers and the end users.
What is innovative in this product is the way that existing technologies are used. Company utilized existing technologies in the manner that has not been used before in this business. Current parking billing solutions mostly rely on parking meters, parking billing machines, or on payment by SMS (widely popular in south – eastern Europe).
Costs of maintaining parking meter or parking billing machines are large due to big number of units existing. SMS paid parking was one of the cost cutting solutions, but it is driven by the mobile phone operators. In SE Europe, mobile operators agree to be the part of this kind of service, provided by the parking service provider companies, for a profit margin of 2 – 4 % of the price of the parking ticket. In Western Europe, and the other parts of the developed world, those margins went up to 40 % which made this kind of solution non feasible.

Stage of Development

Already on the market

IPR Status

Secret Know-how,Trade Marks

Profile Origin

Private (in-house) research

Keywords

Technology

01001001	Automation, Robotics Control Systems
01006003	Mobile Communications
01006008	Satellite Technology/Positioning/Communication in GPS
02008006	Traffic Engineering / Control Systems

Market

01005005	Other satellite/microwave
02006004	Data processing, analysis and input services

02007022	Software services
02007024	Programming services/systems engineering
09001007	Other transportation

NACE

J.62.0.1	Computer programming activities
J.62.0.9	Other information technology and computer service activities

Open for EOI : Yes

Dissemination

Send to Sector Group

ICT Industry and Services

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

2007

Turnover

<1M

Already Engaged in Trans-National Cooperation

Yes

Experience Comments

Additional information about some software components: Web interface- parking company administration portal – JSF 2.0 with PrimeFaces 3.5 – user and contract management, billing and invoices management, browse through active and historical parking transactions, various reports, management of prepaid parking users, management of tenants end-user portal – JSF 2.0 with PrimeFaces 3.5 which enables end user to view it's invoices, active and historical parking transactions, to begin and end parking transaction. End-user general web mobile interface – JSF 2.0 with Primefaces Mobile 0.94 which enables simple web interface to begin / end parking transaction for older and unsupported mobile phones (all except Android, Windows Phone, iOS, Blackberry). Postgresql usage Most of the overall system logic will be defined on Postgresql using pgpsql: • check end-user (does it exist, is the password valid, is there a valid contract, etc.) • check validity of parking transaction for given plate on give parking zone-lot (is it working hour of parking zone-lot, does plate have an active parking transaction, is it tenant's plate on valid parking lot, does hierarchy of zones apply, ...) • start of parking transaction • stop

of parking transaction • billing parking transaction Smart phone applications (Android, iOS, Windows Phone 8, Blackberry), Complete user registration, log-in, start-stop parking transaction, list of active transactions, prediction of parking zone based on GPS location or mobile network location services if available. Parking enforcer application For IP 67 rugged PDA with Windows mobile edition for validating parking transaction for all user types. Users without valid parking right will be fined using Bluetooth thermal printer (if applicable).

Languages Spoken

English

Client Country

Serbia

Partner Sought

Type and Role of Partner Sought

Type of partner sough: company which provide parking services
Role of partner sough: It is expected to have professional approach and to provide necessary support for implementation of the software.

Type and Size of Partner Sought

SME 11-50,SME <10,SME 51-250

Type of Partnership Considered

Commercial agreement with technical assistance

Technology Offer

Customer retention automation software-as-a-service (SAAS) with applications in ecommerce, online gaming, travel and finance

Summary

A UK and Israeli-based ICT company has developed an innovative algorithmic software for bespoke customer analytics and unique predictive micro-segmentation, with applications in a range of verticals such as e-retail, iGaming, social gaming, sports betting and financial services. They are seeking companies in these fields hoping to license the software, which can be adapted to their specific needs via technical cooperation agreement.

Expiration Date 16 May 2017
Reference TOUK20150511008
Profile link

Details

Description

Minimising the churn rate is a key factor in a vertical market, as companies seek not just to retain customers but to determine their behaviour prior to their attrition.

A key problem with companies seeking to slow their customer churn/attrition rate is that existing marketing modelling tends to address large, non-homogeneous groups of customers with limited results. For many small- to medium-sized enterprises (SMEs) who cannot afford the teams of mathematicians, statisticians and super-analysts that large corporations hire to create and maintain such complex models, accomplishing successful one-to-one customer marketing is beyond their reach.

The UK company has developed as software-as-a-system program that has been designed specifically to predict the future behavior of each individual customer and to learn which marketing actions will have the greatest positive effect on the customer's long-term value to the company.

At the core of the technology is a unique method of calculating customer lifetime value (LTV) for every customer. The customer LTV forecasting technology is based on advanced academic research over five years in the UK and Israel.

The software combines this LTV forecasting with continual dynamic micro-segmentation and a unique, mathematically-intensive predictive behavior modeling system. The results of these calculations are integrated into a closed-loop marketing action management, measurement and recommendation engine. The system is integrated with the user's existing email marketing system.

Each time the marketer runs a marketing action on a selection of customers, the selection is divided into a test group and a control group. The software then evaluates campaign results by comparing the behavior of similar customers who received the campaign and those who didn't. This complex analysis, incorporating behaviour prediction models and customer lifetime value calculations, guides the marketer towards the most effective campaigns to run against each micro-segment.

The software would be of specific use to online businesses in a variety of verticals (eg e-retail, iGaming, social gaming, sports betting, financial services) wishing to reduce 'churn'. The company is seeking licensing partners and to adapt and implement the service as part of a technical cooperation agreement.

Advantages and Innovations

The software has already been applied to a wide range of verticals and offers the following advantages:

- The software is "self-learning" and is a closed-loop Retention Optimisation Engine

- The software automates personalised customer marketing campaigns

- reliably predicts which marketing actions will be the most effective for each individual customer

- the service uses an integrated set of multi-disciplinary technologies, incorporating a wide range of data science and mathematical algorithms. These skill sets are rarely found within the one SME

- The software is the first on the market to integrate micro-segmentation, customer lifetime value forecasting and predictive behavior models fully integrated into an omni channel campagn management product.

Stage of Development

Already on the market

IPR Status

Patents granted

Profile Origin

Other

Keywords

Technology

01003006	Computer Software
01003010	Databases, Database Management, Data Mining
01003013	Information Technology/Informatics
01003015	Knowledge Management, Process Management

Market

02006004	Data processing, analysis and input services
02007001	Systems software

02007002	Database and file management
07001007	Other leisure and recreational products and services
07005005	Travel agencies and services

NACE

J.62.0.2	Computer consultancy activities
J.62.0.9	Other information technology and computer service activities
K.66.1.9	Other activities auxiliary to financial services, except insurance and pension funding
N.79.1.1	Travel agency activities
R.92.0.0	Gambling and betting activities

Open for EOI : Yes

Dissemination

Send to Sector Group

ICT Industry and Services

Client

Type and Size of Organisation Behind the Profile

Industry SME 50-249

Year Established

0

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Hebrew

Client Country

United Kingdom

Partner Sought

Type and Role of Partner Sought

- Type of partner sought: Industry

- Specific area of activity of the partner: E-commerce, retail, travel, finance or online gaming, or a company that would benefit from the licensing of this retention automation SAAS.

- Task to be performed by the partner sought: Licensing of the SAAS and working with the client to adapt the software towards their specific needs or application

Type of Partnership Considered

License agreement
Technical cooperation agreement

Technology Request

UK company providing research and design services to help create user-centred interactive products and services is looking for technology partners, content partners and beta testers

Summary

A UK company that provides research and design services has developed a novel, patent-pending radical alternative to traditional keyword search. Instead of a one-dimensional search box, concepts are expressed and manipulated as objects on a two-dimensional canvas. They are seeking technology partners, content partners and beta testers to develop this tool as part of a technical cooperation agreement, or to form a consortium and apply for EU funding as part of a research cooperation.

Expiration Date 15 May 2017
Reference TRUK20151104001
Profile link

Details

Description

This UK company provides research and design services to help create user-centred interactive products and services. Their work is based around a philosophy of user-centred design, with an emphasis on evidence-based research from the fields of cognitive psychology and human-computer interaction.
The company's research program focuses on human-information interaction; in particular the challenges involved in understanding and modelling the context in which people interact with information systems and in developing novel interaction metaphors and technologies to apply that understanding.

The company's CEO and founder has 20 years' experience, which includes degrees in engineering, human-computer interaction and cognitive psychology - elements of which have combined to create this unique service. A leader in the design of 'search and discovery' experience, the CEO edits an online journal and has written 70 scientific papers on search, user experience and text analytics.

Much of the company's recent work has focused on the challenges involved in searching, navigating and sense-making within complex information spaces.

This has three primary facets:
• Investigation of novel text analytics techniques for extracting structure and meaning from unstructured information sources • Development of new interaction and visualisation techniques for exploring complex information spaces • Empirical studies of human information-seeking

behaviour, in particular the user experience of exploratory search and knowledge discovery applications.

They also have on-going research collaborations with a variety of organisations, universities and laboratories and are always open to new research cooperation agreements of this kind (such as Horizon 2020 - H2020).

They are interested in collaborative, long-term projects with companies across all sectors as technical cooperation agreements interested in enhancing their clients' experience.

Technical Specification or Expertise Sought

The technology is a patent pending, radical alternative to traditional keyword search. Instead of a one-dimensional search box, concepts are expressed and manipulated as objects on a two-dimensional canvas. So users spend less time worrying about boolean strings, and more time creating semantically transparent queries and effective search strategies. This is particularly valuable to professions that need to create repeatable, transparent and optimised search strategies, e.g. healthcare, legal, media monitoring and recruitment.

Stage of Development

Concept stage

IPR Status

Patent(s) applied for but not yet granted

Comment Regarding IPR status

UK patent only

Keywords

Technology

01003003	Artificial Intelligence (AI)

Market

02007004	Program development tools/languages

NACE

J.62.0.1	Computer programming activities

Open for EOI : Yes

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

2013

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English

Client Country

United Kingdom

Partner Sought

Type and Role of Partner Sought

The UK company is looking for technology and research partners who can bring natural language processing / text analysis / knowledge modelling skills to the table.
Content partners would provide suitable samples of search strategies and test data.
Evaluation partners would provide end user scenarios and test cases.

Type and Size of Partner Sought

SME 11-50,University,R&D Institution,SME <10

Type of Partnership Considered

Technical cooperation agreement
Research cooperation agreement

Business Offer

A UK performance and recovery enhancing sportswear brand is looking for distributors.

Summary

UK company has developed a range of performance and recovery enhancing sportswear made from reactive textiles. They are looking for distributors and retailers in Europe.

Expiration Date 21 October 2017
Reference BOUK20161017001
Profile link

Details

Description

This UK company has developed and manufactured a line of sports clothes that harness the energy wasted by the human body, estimated at over 60% of the energy consumed.

Their clothes are made using the company's patented technology which contains 13 thermo-reactive minerals embedded within the fibres and woven into a blended fabric. This means that heat and infrared radiation emitted by the human body can be captured and re-emitted back in the form of far infrared radiation.

The technology allows the minerals to act as lenses capturing environmental heat and light radiation which is then re-emitted as infrared radiation onto the wearer. This makes the clothes quick drying and thermo-regulatory, keeping the athletes at optimal temperature.

Since the minerals have been embedded into the textiles they will never wash out and will always perform 100%.

Collection range includes: gym wear, base layers, socks, compression layers and out wear clothing.

The company is currently selling thought their online store and other online sport retailers in the UK, the company is now ready to take larger orders ('00-'000 pieces) and reach EU markets. Therefore, they are looking for partners in Europe such as: retailers or distributors (department stores etc), online shops, independent sports stores, physiotherapists.

Advantages and Innovations

The benefits of the technology include:

- increased circulation;

- increased tissue oxygen levels by up to 20% - dramatically improving power, endurance and

rates of recovery in both elite as well as hobby athletes;

- increased cellular metabolism and energy production;

- pain relief.

The company combines the advantages of their fabrics with compression technology and designs to further improve the performance enhancing effects. Research into compression clothing has provided evidence that it can increase venous return of blood to the heart, which results in an increase in cardiac output and stroke volume. The increased venous return will also remove lactic acid from muscles quicker and promote post-exercise muscle recovery to further the beneficial effects of the infrared exposure.

Stage of Development

Already on the market

IPR Status

Design Rights,Patents granted

Keywords

Market

07001004	Sporting goods, hobby equipment and athletics clothes
07002002	Clothing and shoe stores
07004001	Clothing, shoes and accessories (including jewellery)

NACE

C.14.1.3	Manufacture of other outerwear
C.14.1.9	Manufacture of other wearing apparel and accessories
G.46.4.2	Wholesale of clothing and footwear
G.47.6.4	Retail sale of sporting equipment in specialised stores
G.47.7.1	Retail sale of clothing in specialised stores

Open for EOI : Yes

Dissemination

Send to Sector Group

Services and Retail

Client

Type and Size of Organisation Behind the Profile

Industry SME 11-49

Year Established

2013

Turnover

<1M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English

Client Country

United Kingdom

Partner Sought

Type and Role of Partner Sought

Partners could be retailers or distributors (department stores etc), online shops, independent sports stores, physiotherapists.

Type and Size of Partner Sought

SME 11-50,SME <10,>500 MNE,251-500,SME 51-250,>500

Type of Partnership Considered

Distribution services agreement

Attachments

infrared-baselayers.jpg



-thermals-to-reduce-snowboarding-aches-and-pains.jpg







PIC1.jpg



Technology Offer

Immersive 3D audio technology for interactive applications and virtual reality

Summary

A small German company offers advanced 3D audio technology for interactive applications that can auralize a variety of acoustic surroundings and that offers a new listening experience. Applications are in virtual reality, 360° films, games and also linear productions. The application programming interface (API) is suitable for all platforms. Licensees are sought or partners for technical or commercial agreements with technical assistance.

Expiration Date	30 April 2017
Reference	TODE20151029002
Profile link	

Details

Description

A small German company - specialised in 3D audio and interactive sound design – offers audio software and production for virtual reality and 360° film.

Their software is a 3D-audio application programming interface (API). With this technology audio sources can be virtually positioned and moved within a 3D-space in real-time. Many different kinds of acoustic surroundings can be auralized to create realistic sound immersion.

The 3D-Audio API provides a new experience for all kind of interactive applications through enhanced design possibilities for gameplay and narration. It is suitable for all platforms (iOS, Android, OSX, Win, Linux) and can be directly implemented in the game engine Unity via an asset or native in standalone applications. The use of headphones for playback is required.

Individual solutions with contents adjustments can be created.

Partners are sought for licensing or for technical or commercial agreements with technical assistance, e.g. to integrate technology in their equipment or to develop projects together.

Advantages and Innovations

• 3D audio software for headphones with full 360° sound and different room simulation is not available yet in the quality offered by the German company.
• Collaboration with university ensures access to latest research in the field

Stage of Development

Available for demonstration

Comments Regarding Stage of Development

Available from late November 2015 on

IPR Status

Trade Marks

Profile Origin

Private (in-house) research

Keywords

Technology

01003004	Computer Games
01004014	Serious Games
01005006	Visualisation, Virtual Reality
01006001	Audiovisual Equipment and Communication
02009015	Audio / video

Market

07001001	Movies, movie products and theatre operations
07001003	Toys and electronic games
07001006	Music, records, production and instruments
07001007	Other leisure and recreational products and services

NACE

J.59	Motion picture, video and television programme production, sound recording and music publishing activities
J.59.2	Sound recording and music publishing activities

Open for EOI : Yes

Dissemination

Send to Sector Group

Creative Industries

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

2014

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English
German

Client Country

Germany

Partner Sought

Type and Role of Partner Sought

Partners are sought for licensing, commercial agreements with technical assistance ar technical cooperation:

- Licensees, e.g. agencies, end-users, industry
- Commercial agreement with technical assistance: Hardware manufacturers interested in integrating 3D audio features into their products with the adjustment support of the German company
- Technical cooperation for project development and production for clients

Type of Partnership Considered

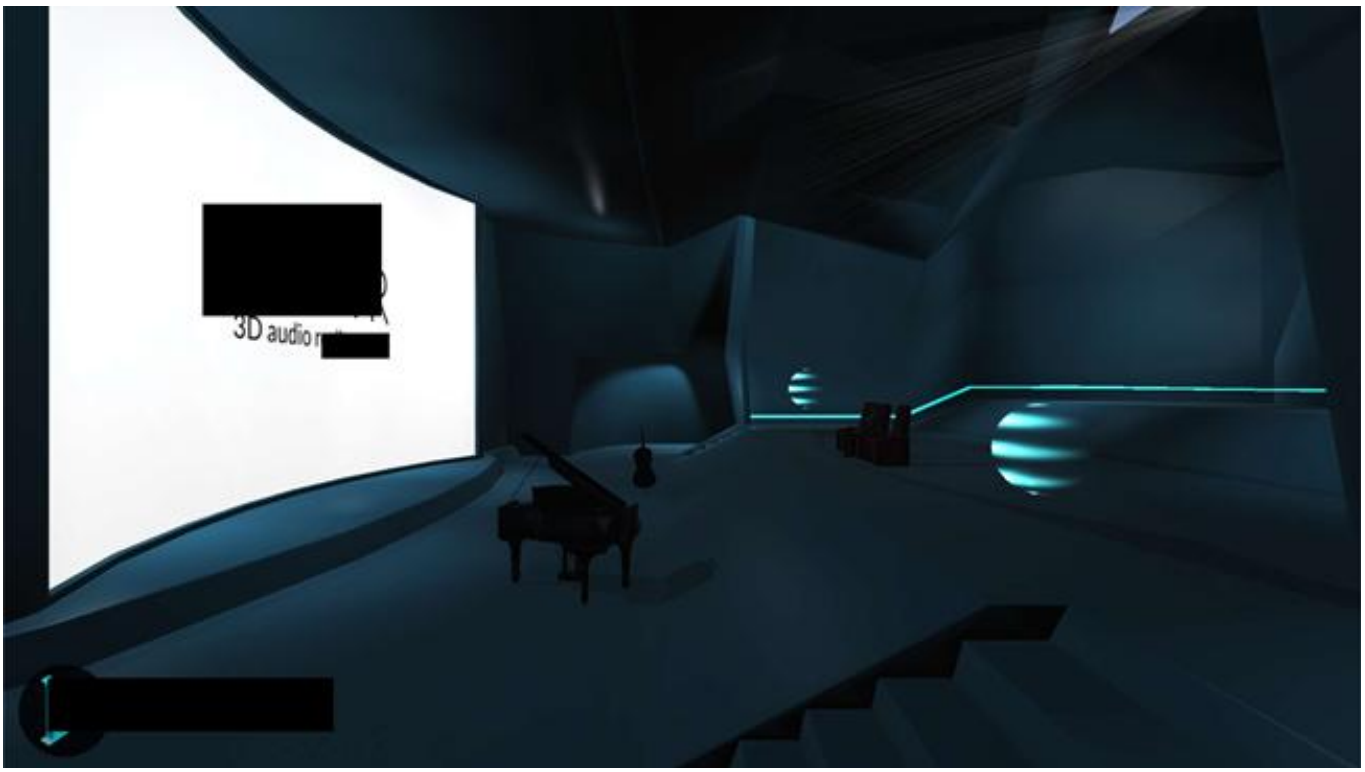
License agreement
Commercial agreement with technical assistance
Technical cooperation agreement

Attachments

audiiovirtualreality.jpg


POSITION
CARTESIAN
POLAR
AZIMUTH
- 80
SCALE
X
ELEVATION
Y
Z
GAIN
0
8.7 m
DISTANCE
SCALE
REFLECTIONS
ON
OFF
30.00
FRONT
30.00
TOP
30.00
LEFT
30.00
RIGHT
GAIN
BACK
30.00
BOTTOM
30.00
30.00
DAMPING
3D audio virtual reality
DOPPLER EFFECT
STATIC POSITION
REALTIME AURALISATION
PROCESS CHANNEL
LEFT
RIGHT
SIGNAL
MASTER GAIN
REVERB
ON
OFF
PRESET
LARGE ROOM
SIZE
0
1
30.00
DAMPING
GAIN

3DAudio.jpg


[redacted]
3D audio [redacted]