Dear sirs!

The science park “Kyiv Polytechnics”, on the base of the NTUU “KPI” has the honour to offer you the automatized software package for gathering and analyzing data flows in the social media named «NetMonitor».

«NetMonitor» is intended for the heads of national and regional government bodies, local self-government, law enforcement etc:

- This is the instrument for the effective analysis of social media for the resonant problems and risks detection on the area or the department under your responsibility and, as a result, timely reaction to them;
- It provides an instant monitoring and effective analysis of the expressions and people’s attitude to the issues and problems in question; it detects the problem on the stage of its origin;
- It processes messages of the main social networks, attunes to the analysis of any regional media (forums and comments of the local government and other governmental bodies portals, local news portals etc);
- Detects the most active citizens with both positive and negative attitude towards the issue, problem, head etc.

YOU OPPORTUNITIES WITH «NETMONITOR»:

Reputation management

- «NetMonitor» analyses the blogosphere’s interest in certain problems and warns about possible reputational risks for the certain head or party;
- «NetMonitor» gives an opportunity to assess the social media’s reaction to the major events and the initiatives of the department, region, head or party.

Struggle against corruption

«NetMonitor» helps track the corruption practices in the area or department under your responsibility and react to them instantly.

Social tension analysis

«NetMonitor» tracks any activity in social media that leads to the social tension increase: initiation of disorders, protests, extremism; it detects the instigators and active adherents of such actions;
«NetMonitor» informs effectively about any critical social issues: the debates about the price levels, salaries, pensions; problems of housing and public utilities, infrastructure, medicine, other socially relevant spheres of the area under your responsibility.

The political mood analysis

«NetMonitor» allows to track efficiently the electoral mood in the social media towards the major political parties and their leaders (both on the national and regional levels), to keep the political situation under control, to detect the active adherents and antagonists of any party or leader.

KEY FEATURES

• Twenty-four-hours analysis of the mood in the social media and detection of the excessive interest in particular topics;
• Possibility to detect activists (with both positive and negative attitude) and, as a result, to take measures timely;
• Social media trends tracking before entering the official media.
• Monitoring effectiveness- in the online mode;
• Analysis effectiveness, which is inaccessible while using other instruments.

Reports can be given in any form.

Adjusts to particular tasks of the department and leader.
“Spectator”
UNMANNED AERIAL VEHICLE

Key Features
- Wingspan: 1400 mm
- Length: 700 mm
- Speed: up to 100 km/h
- Operational maximum: 3000 m
- Take-off weight: 5.6 kg
- Weight (without payload): 1.3 kg
- Flight duration: up to 120 min
- Range of radio signal: 20-40 km
- Environment: illumination, wind
- Type of control: auto, semi-auto, manual
- Radio signal frequencies: 433 MHz, 915 MHz
- Video channel frequency: 1250 MHz
- Engine: electric
- Battery charge duration: 3 hours

Payload: Recording equipment (digital photo/video camera and analogue video camera with zoom), may be changed upon customers request.

Key Competitive Advantages
- The operation does not require highly qualified personnel (operator training requires 2 weeks max)
- Easy to transport, the optimum size when folded into backpack (700x200x200 mm)
- The minimum time for preparation for launch of a disassembled state (up to 2 minutes)
- Ability to parachute landing in the absence of platform
- Digital secure channel of communication and data transfer
- Low noise and visibility
- Optimal ratio of payload weight to unit weight
- The high aerodynamic qualities

The system consists of the drone, backpack, ground station, radio control panel, plug-in battery lift, antennas.
"PolyITAN-1" nanosatellite

The PolyITAN-1 nanosatellite was designed by the NTUU "Kiev Polytechnic Institute" scientists to carry out different educational, scientific and technological tasks.

Further modifications of this nanosatellite will have practical use in different areas including military:

- Earth remote sensing (ERS), that provides a possibility to observe the Earth surface by means of the different types of recording equipment
- Development of the new communication systems, where constellations of nanosatellites will provide transport network for data transferring
- Calibration of the radar stations and space monitoring systems

www.spark.kpi.ua
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“SOVA” PORTABLE WATER PURIFICATION SYSTEM

Capabilities

• Purification of any contaminated or probably impure water from microorganisms, pesticides, heavy metals etc.
• Producing over 500 liters of purified water using the same cartridge
• Water delivery is carried out by hand pump
• The unique technology of three-stage purification:
  • disinfection and coarse meals elimination
  • residual organic wastes removal
  • fine purification
• The main reactant is complex biocide polymer consisting of flocculent, disinfectant and coagulant
• Purified water satisfies all sanitary and epidemiological standards of Ukraine

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