**"Gyroscopy and Navigation" 2007**

**List of the materials published in the journal in 2007**

|  |  |  |
| --- | --- | --- |
|  |       | **№     page** |

|  |  |  |
| --- | --- | --- |
| **Barabanov A.D., Osipov V.A., Tupikov V.A., Turnetsky L.S.** | On the navigation support of the remotely piloted helicopter deck landing | **4       32** |

|  |  |  |
| --- | --- | --- |
| **Bazhenov A.G., Gryazin D.G., Evstifeyev M.I., Belyaev Ya.I., Molotkov D.G., Kovalyov A.S.,Rozentsveyn D.V., Untilov A.A., Shadrin Yu.V.** | Specialized software package for designing micromechanical inertial sensors | **3       52** |

|  |  |  |
| --- | --- | --- |
| **Belous Yu.P., Nedzelsky I.I.** | Automation of actions estimation for the marine navigation system operators being trained at the simulator Solyaris-UTTH | **4       76** |

|  |  |  |
| --- | --- | --- |
| **Boyarsky E.A., Afanasyeva L.V.** | MAGELLAN-2 versatile software package for sea and air gravity measurements processing and analysis | **1       91** |

|  |  |  |
| --- | --- | --- |
| **Chernodarov A.V., Patrikeyev A.P., Platonov A.Yu., Budkin V.L., Golikov V.P., Larionov S.V.** | Parametric identification for errors models of integrated navigation systems in real time mode and from data of onboard recording devices | **4       17** |

|  |  |  |
| --- | --- | --- |
| **Dmitriev S.P., Osipov A.V.** | Consideration of errors peculiarities for the marine integrated navigation systems under accuracy control by mathematical metrology methods | **4       42** |

|  |  |  |
| --- | --- | --- |
| **Dmitriev S.P., Rosenhaus M.B.** | Possibilities to specify reliability characteristics of navigation systems equipment elements with the use of field-collected data | **1       29** |

|  |  |  |
| --- | --- | --- |
| **Donnik A.S., Merkuriev I.V., Podalkov V.V.** | Influence of linear vibration of the basis on dynamics of the hemispherical resonator gyroscope | **1       62** |

|  |  |  |
| --- | --- | --- |
| **Dudka V.D., Babichev V.I., Filimonov V.Ya., Kirilin V.V., Gorin V.I., Raspopov V.Ya., Malyutin D.í.** | Onboard gyro devices of the roll rotating airborne vehicles | **1       36** |

|  |  |  |
| --- | --- | --- |
| **Epifanov O.K., Khrushchov V.V.** | Three-phase inductor torque motors with the minimum torque pulsations | **4       82** |

|  |  |  |
| --- | --- | --- |
| **Fedossov Victor, Chvojka Milan** | The high sensitive microaccelerometer MAC-04 (development and application) | **1       68** |

|  |  |  |
| --- | --- | --- |
| **Fomichev A.A., Kolchev A.B., Larionov P.V., Pugachev R.V.,. Uspensky V.B.** | Data integration in the integrated navigation system at incomplete satellites constellation | **1       3** |

|  |  |  |
| --- | --- | --- |
| **Kolesov N.V., Tolmacheva M.V.** | Planning and checking of computations in the integrated navigation system | **2       13** |

|  |  |  |
| --- | --- | --- |
| **Kolevatov A.P., Nikolaev S.G., Andreyev A.G., Ermakov V.S., Dunayev D.A., Kel O.L., Malgin N.V.** | Development of a dual mode attitude and heading reference system on three-component fiber optic gyros | **2       43** |

|  |  |  |
| --- | --- | --- |
| **Koshaev D.A** | Information inspection and recovery of navigation complexes at the diversity of fault types and uncertainty of their models | **4       47** |

|  |  |  |
| --- | --- | --- |
| **Landau B.E., Emelyantsev G.I., Levin S.L., Romanenko S.G., Gurevich S.G., Odintsov B.V.** | Main development and test results for low-orbiting spacecraft attitude determination system based on electrostatic gyros | **2       3** |

|  |  |  |
| --- | --- | --- |
| **Lukianov D.P., Tikhonov A.A., Filatov Yu.V., Shevelko M.M., Povalyaev A.G., Shevchenko S.Yu.,. Sturov A.A, Popova I.V., Lestev A.M., Lestev M.A., Novikov V.V., Vershinin M.S.** | Development and optimization of the surface acoustic-waves microaccelerometer construction scheme. Part 2 | **3       62** |

|  |  |  |
| --- | --- | --- |
| **Metzger J., Maier A., Trommer G.F.** | Comparison of modular and centralized terrain referenced navigation filters | **2       24** |

|  |  |  |
| --- | --- | --- |
| **Mezentsev A.P., Frolov E.N., Klimkin M.Yu., Mezentsev O.A.** | Development, production and test results for a medium-accuracy MEMS INS AIST-320 based on Coriolis vibratory gyro AIST-100 | **3       3** |

|  |  |  |
| --- | --- | --- |
| **Monikes Ralf, Meister Oliver, Teltschick Armin, Wendel Jan, Trommer Gert F.** | Performance comparison of a fixed-interval smoother and a Kalman filter for GNSS/INS integration | **4       3** |

|  |  |  |
| --- | --- | --- |
| **Nikishin V.B., Sinev A.I., Plotnikov P.K., Chigirev P.G., Ulyanov A.V.** | Technology of positioning the pipelines and defective places of trunk pipelines based on integration of the inline and satellite navigation systems | **2       76** |

|  |  |  |
| --- | --- | --- |
| **Plotnikov P.K., Nikishin V.B., Chebotarevsky Yu.V., Sinev A.I., Chebotarevsky V.Yu.** | Underground navigation problems solution method development and applications | **3       26** |

|  |  |  |
| --- | --- | --- |
| **Rapoport L.B., Tkachenko M.Ya., Mogilnitskiy V.G., Khvalkov A.A., Pesterev A.V.** | GNSS / INS integrated system: experimental results and applications in mobile robots control | **1       16** |

|  |  |  |
| --- | --- | --- |
| **Rosenhaus M.B.** | The influence of monitoring systems incompleteness and measure of belief on reliability of a nonredundant engineering system | **3       77** |

|  |  |  |
| --- | --- | --- |
| **Schneebauer Christina, Wartenberg Maylin** | From TMC tables to on-the-fly location referencing - methods for establishing traffic information services | **1       77** |

|  |  |  |
| --- | --- | --- |
| **Severov L.A., Ovchinnikova N.A.** | The generalized dynamics model for micromechanical gyroscopes of RR type | **4       68** |

|  |  |  |
| --- | --- | --- |
| **Shcherbak A.G., Belyaev S.N., Udovikov A.S.** | Process techniques and methods for plastic behavior adjustment at the pressure welding of gyro device precision assemblies | **4       96** |

|  |  |  |
| --- | --- | --- |
| **Sholokhov A.V.** | Correction of autonomous terrain navigation systems in motion with the use of the road digital map reference points | **3       34** |

|  |  |  |
| --- | --- | --- |
| **Slyusar V.M.** | On effect of instrumental factors on strapdown attitude drift rate | **1       47** |

|  |  |  |
| --- | --- | --- |
| **Sofka Jozef, Skormin Victor** | Optical platform stabilization using the omni-wrist robotic manipulator Omni-Wrist III | **2       52** |

|  |  |  |
| --- | --- | --- |
| **Suvorov S.S., Devyatkin A.M., Kuleshov Yu.V., Lebedev A.B., Podkovyrin A.N.** | Estimate of solar eclipse on March 29, 2006 influence on accuracy of co-ordinates determination by navigation equipment of GPS user | **3       42** |

|  |  |  |
| --- | --- | --- |
| **Vinogradov G.M., Temlyakov N.A., Balabanov I.V., Balabanova T.V., Stepin V.I.** | Investigation of the elastic suspension design for the dynamically tuned gyroscope of GVK-16 type | **4       60** |

|  |  |  |
| --- | --- | --- |
| **Yevstifeyev M.I.** | Elastic suspensions for inertial bodies in fine instrument-making | **2       63** |

|  |  |  |
| --- | --- | --- |
| **Zhbanov Yu.K.** | Self-tuning control loop for suppression of quadrature in a hemispherical resonator gyro | **2       37** |

**Brief note**

|  |  |  |
| --- | --- | --- |
| **Alekhova Ye.Yu.** | Testing of Poisson's equations numerical solution algorithms | **4       102** |

|  |  |  |
| --- | --- | --- |
| **Karelin V.Yu.** | On algorithmic correction of some errors of strapdown MWD systems during drilling | **1       105** |

**Proceedings of 9th Conference of Young Scientists
Navigation and Motion Control**

|  |  |
| --- | --- |
| **Paper abstracts** | **2       87** |

**Materials of the 14th Saint Petersburg International Conference
on Integrated Navigation Systems**

|  |  |
| --- | --- |
| **Abstracts of the papers** | **3       83** |

**International Public Association
Academy of Navigation and Motion Control
Official information**

|  |  |  |
| --- | --- | --- |
| **Bogdanov M.B., Prokhortsov A.V., Savelyev V.V., Smirnov V.A., Sukhinin B.V., Chepurin A.A.** | Integrated attitude determination and navigation system for highly-maneuverable aircraft with short flight time | **2       115** |

|  |  |  |
| --- | --- | --- |
| **Faldin N.V.** | Analysis and synthesis of the relay self-oscillating control systems | **1       112** |

|  |  |
| --- | --- |
| Lukianov D.P. is 75years old | **4       107** |

|  |  |  |
| --- | --- | --- |
| **Podchufarov Yu.B.** | Use of satellite navigation aids in military equipment control | **2       125** |

|  |  |  |
| --- | --- | --- |
| **Raspopov V.Ya., Markov A.P., Ivanov Yu.V., Malyutin D.M., Gorin A.A., Alaluyev R.V., Matveyev V.V.** | Roll rotating missile lateral oscillation damping with the use of microgyro | **1       125** |

|  |  |
| --- | --- |
| The 23nd General Meeting of the Academy of Navigation and Motion Control | **3       111** |

|  |  |
| --- | --- |
| The 24th General Meeting of the Academy of Navigation and Motion Control | **4       109** |

|  |  |
| --- | --- |
| Two days in Tula (the visiting session of the Presidium of the Academy of Navigation and Motion Control | **1       109** |

**New books**

|  |  |
| --- | --- |
| About monograph "Precision gas-lubricated bearings" | **3       115** |

**Information**

|  |  |
| --- | --- |
| **All-Russian seminar "Navigation and motion control state-of-the-art methods"** | **3       117** |

|  |  |  |
| --- | --- | --- |
| **Andrievsky B.R.** | 9th IFAC Workshop on Adaptation and Learning in Control and Signal Processing (ALCOSP 2007) | **4       117** |

|  |  |  |
| --- | --- | --- |
| **Peshekhonov V.G.** | Unique gyro has provided for the general relativity check | **4       111** |

|  |  |  |
| --- | --- | --- |
| **Stepanov O.A.** | The 6th IFAC Symposium on Intelligent Autonomous Vehicles (IAV 2007) | **4       117** |

|  |  |
| --- | --- |
| **Russian and international conferences, symposiums, and exhibitions** | **1       129** |

|  |  |
| --- | --- |
| **Russian and international conferences, symposiums, and exhibitions** | **2       129** |

|  |  |
| --- | --- |
| **Russian and international conferences, symposiums, and exhibitions** | **3       123** |

|  |  |
| --- | --- |
| **Russian and international conferences, symposiums, and exhibitions** | **4       121** |