### Scientific and technical journal "Гироскопия и навигация" (Gyroskopiya i Navigatsiya)

(ISSN 2075-0927 - Online, ISSN 0869-7035 - Print)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | LIST OF THE MATERIALS PUBLISHED IN THE JOURNAL «GYROSCOPY AND NAVIGATION» IN 2013   |  |  |  | | --- | --- | --- | |  |  | **№     page** |  |  |  |  | | --- | --- | --- | | **Alekseev S.Yu., M.V. Chirkin, V.Yu. Mishin, D.A. Morozov, M.V. Borisov, A.V. Molchanov, M.А. Zakharov** | Method of lock-in threshold measurement in manufacture and operation of ring lasers | **2      75** |  |  |  |  | | --- | --- | --- | | **Ancev I.G., S.V. Bogoslovsky, G.A. Sapozhnikov** | Mirror Topology for Differential SAW Sensor | **4      35** |  |  |  |  | | --- | --- | --- | | **Binder Ya.I., A.E. Eliseenkov, A.S. Lysenko, V.G. Rozentsvein, V.M. Denisov, and D.A. Sokolov** | MEMS-based mobile inclinometric station for trajectory survey of grouped wellbores | **1      95** |  |  |  |  | | --- | --- | --- | | **Binder Ya.I., B.A. Blazhnov, G.I. Yemelyantsev, D.A. Koshaev, L.P. Staroseltsev, O.A. Stepanov** | Opportunity analysis for the azimuth alignment of downhole gyroinclinometers in high latitudes | **3      14** |  |  |  |  | | --- | --- | --- | | **Bogdanov M.B.** | Results from AIST-350T IMU mechanical tests | **4      84** |  |  |  |  | | --- | --- | --- | | **Bordachev D.A., I.E. Shustov, B.A. Kazakov** | Rate gyro with two-speed measurement system | **2      112** |  |  |  |  | | --- | --- | --- | | **Bouyer P.** | The centenary of Sagnac effect and its applications: from electromagnetic to matter waves | **4      3** |  |  |  |  | | --- | --- | --- | | **Chattara j S., A. Mukherjee, S.K. Chaudhuri** | Transfer alignment problem: algorithms and design issues | **3      33** |  |  |  |  | | --- | --- | --- | | **Chumankin E.A.** | Development and test results of angular rate sensor based on hemispherical resonator gyroscope | **2      104** |  |  |  |  | | --- | --- | --- | | **Davidson P. and J. Takala** | Algorithm for pedestrian navigation combining IMU measurements and gait models | **1      86** |  |  |  |  | | --- | --- | --- | | **Dvorkin V.V., S.N. Karutin** | Global measuring stations network design principles for precise navigation and timing service for GLONASS users | **2      3** |  |  |  |  | | --- | --- | --- | | **Dzhashitov E., V.M. Pankratov, A.V. Golikov, S.G. Nikolaev, A.P. Kolevatov, A.D. Plotnikov, and K.V. Koffer** | Hierarchical thermal models of strapdown inertial navigation system with fogs and accelerometers | **1      49** |  |  |  |  | | --- | --- | --- | | **Dzhashitov V.E., V.M. Pankratov** | Application of elementary balances method for the analysis and synthesis of the thermal control system based on Peltier’s modules for SINS on FOG | **2      84** |  |  |  |  | | --- | --- | --- | | **Evstifeev M.I.and I.B. Chelpanov** | Providing the mechanical stability of MEMS gyros | **1      119** |  |  |  |  | | --- | --- | --- | | **Firsov S.N.** | Designing a fault-tolerant system of motion parameter sensors within a stabilization and orientation system | **4      72** |  |  |  |  | | --- | --- | --- | | **Gryazin D.G., M.D. Kudryavtsev** | Сomparing dynamic characteristics of two similar-accuracy angle-measuring instruments used in navigation equipment testing | **4      94** |  |  |  |  | | --- | --- | --- | | **Gryazin D.G., M.D. Kudryavtsvev, N.L. Yavorovskaya, K.N. Usachev, D. Rames, F. Bellon, J. Perdriat** | Test results for C40-ST-09 centrifuge by Actidyn Systemes | **2      119** |  |  |  |  | | --- | --- | --- | | **Jeanroy A., A. Bouvet, G. Remillieux** | HRG and Marine Applications | **4      24** |  |  |  |  | | --- | --- | --- | | **Kapitanyuk Yu.A., S.A. Chepinsky** | Control of the mobile robot motion along a predetermined piecewise smooth path | **2      42** |  |  |  |  | | --- | --- | --- | | **Koneshov V.N., V.B. Nepoklonov, R.A. Sermiagin, and E.A. Lidovskaya** | Modern global models of the Earth gravity field and their errors | **1      107** |  |  |  |  | | --- | --- | --- | | **Konovalov S.F., V.P. Podchezertsev** | Inertial measurements of driving pile displacements | **4      14** |  |  |  |  | | --- | --- | --- | | **Koshaev D.A.** | Heading determination by phase GNSS measurements under satellite restricted visibility in static case | **1      64** |  |  |  |  | | --- | --- | --- | | **Krasilshchikov M.N., D.A. Kozorez, K.I. Sypalo, O.F. Samarin, V.Yu. Savostyanov** | High accuracy positioning of phase center of multifunction airborne radar antenna | **2      14** |  |  |  |  | | --- | --- | --- | | **Krobka N.I.** | Estimating quantum limits on SINS accuracy based on accurate error equations | **4      46** |  |  |  |  | | --- | --- | --- | | **Lobanov V.S., N.V. Tarasenko, D.N. Shulga, V.N. Zboroshenko, B.B. Beliaev** | Perspective stellar-inertial control systems for astrophysical space vehicles | **3      72** |  |  |  |  | | --- | --- | --- | | **Loparev A.V., O.A. Stepanov, V.I. Kulakova** | Approximate solution to robust filtering problem using the method of PSD local approximations | **3      85** |  |  |  |  | | --- | --- | --- | | **Lyubimov V.V., V.I. Malyshev, N.D. Syomkin** | Control of a small satellite orientation with due regard to failures in the discharging system of the flywheel kinematic momenta | **2      31** |  |  |  |  | | --- | --- | --- | | **Konson A.D., N.V. Kulagina, V.G. Timoshenkov, A.A. Yanpolskaya** | Method of depth determination using multibeam echosounder under unknown sound speed profile | **2      53** |  |  |  |  | | --- | --- | --- | | **Mikhailov N.V., V.V. Chistyakov** | Search for GNSS signals in space-based receivers. Part 1. Combined search | **4      60** |  |  |  |  | | --- | --- | --- | | **Mikhailov N.V., S.S. Pospelov, D.E. Yudakin, and P.V. Glushkov** | Precomputation of GNSS message modulating sequence | **1      79** |  |  |  |  | | --- | --- | --- | | **Paturel Y., J. Honthaas, H. Lefevre, F. Napolitano** | One nautical mile per month FOG Based strapdown inertial navigation system: a dream already within reach? | **3      3** |  |  |  |  | | --- | --- | --- | | **Qin Yueming, Zhiguo Cao, Hansong Li, Xiaojing Wang, Wen Zhuo** | Building localization from forward-looking infrared images for UAV guidance | **3      59** |  |  |  |  | | --- | --- | --- | | **Shcherbinin V.V., G.B. Kvetkin, A.V. Sviyazov, and V.B. Andrienko** | Navigation support of UAV automated landing system | **1      19** |  |  |  |  | | --- | --- | --- | | **Somov E.I.** | Analysis of singular states and synthesis of explicit tuning laws of gyro moment clusters with multiple schemes | **1      134** |  |  |  |  | | --- | --- | --- | | **Vahitov T.N., A.B. Kolchev, K.Yu. Schastlivets, V.B. Uspensky, P.V. Larionov, and A.A. Fomitchev** | NSI-2000MTG integrated navigation system | **1      34** |  |  |  |  | | --- | --- | --- | | **Vorsmann P., C. Kaschwich, T. Kruger, P. Schnetter, and C.-S. Wilkens** | MEMS-based integrated navigation systems for adaptive flight control of unmanned aircraft – State of the art and future developments | **1      3** |  |  |  |  | | --- | --- | --- | | **Yevstifeyev M.I., A.S. Kovalyov, D.P. Yeliseyev** | Investigation of the electromechanical model of a R-R type MEMS Gyro with consideration of the base vibrations | **3      24** |  |  |  |  | | --- | --- | --- | | **Zlatkin Yu.М., А.N. Kalnoguz, V.G. Voronchenko, N.I. Lykholit, А.Yu. Vakhlakov, А.М. Sladky, V.М. Slyusar** | Laser SINS for Сyclone-4 launch vehicle | **2      64** |   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Tutorial**   |  |  |  | | --- | --- | --- | | **Avanesov G.A., R.V. Bessonov, A.N. Kurkina, M.B. Liudomirsky, I.S. Kayutin, N.E. Yamshchikov** | Autonomous strapdown stellar-inertial navigation systems: design principles, operation modes and operating experience | **3       91** |  |  |  |  | | --- | --- | --- | | **Babich O.A.** | Studying cinematic of noncommutativity rotation in SINS orientation algorithms using axoid method | **4       110** |   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Materials of the 15th Conference of Young Scientists “Navigation and Motion Control”**   |  |  | | --- | --- | | Abstracts of the papers | **2       125** |   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Materials of the 20th Saint Petersburg International Conference on Integrated Navigation Systems**   |  |  | | --- | --- | | Abstracts of the papers | **3       111** |   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **History pages**   |  |  |  | | --- | --- | --- | | **Peshekhonov V.G.** | Leaders in the gyroscopy of our country | **3       139** |   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **International Public Association Academy of Navigation and Motion Control O f f i c i a l   i n f o r m a t i o n**   |  |  |  | | --- | --- | --- | | **Branets V.N.** | Control and navigation in the problem of space debris disposal | **3       155** |  |  |  |  | | --- | --- | --- | | **Nebylov A.V.** | To the 100th anniversary of the birth of eminent scientists Boris Nikolaevich Petrov | **1       149** |  |  |  |  | | --- | --- | --- | | **Stepanov O.A.** | 21st Mediterranean Conference on Control and Automation | **3       162** |  |  |  | | --- | --- | | The 35th General Meeting of the International Public Association - Academy of Navigation and Motion Control | **2       171** |  |  |  | | --- | --- | | The 36th General Meeting of Academy of Navigation and Motion Control | **4       121** |  |  |  |  | | --- | --- | --- | | **Veremeenko K.K.** | Modern technologies in control, automation, and data processing | **4       123** |   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Information**   |  |  | | --- | --- | | Russian and international conferences, symposia and exhibitions | **1       145** |  |  |  | | --- | --- | | Russian and international conferences, symposia and exhibitions | **2       175** |  |  |  | | --- | --- | | Russian and international conferences, symposia and exhibitions | **3       167** |  |  |  | | --- | --- | | Russian and international conferences, symposia and exhibitions | **4       125** |  |  |  | | --- | --- | | *Abstracts of the published papers* | **1       157** |  |  |  | | --- | --- | | *Abstracts of the published papers* | **2       179** |  |  |  | | --- | --- | | *Abstracts of the published papers* | **3       172** |  |  |  | | --- | --- | | *Abstracts of the published papers* | **4       129** | |