**"Gyroskopiya i Navigatsiya" №1, 2012**

**CONTENTS**

|  |  |
| --- | --- |
| *A.L.Botchkovski, N.V.Mikhailov, S.S.Pospelov* Design of a combined GPS/GLONASS receiver and results of its preliminary tests  [abstract](http://www.elektropribor.spb.ru/en/n1_2012.html#a1) | 3 |
| *P. A. Akimov, A. I. Matasov* Processing the results of SINS bench tests by methods of nonsmooth optimization in the presence of faults  [abstract](http://www.elektropribor.spb.ru/en/n1_2012.html#a2) | 14 |
| *L.V. Vodicheva, E.L. Alievskaya, E.A. Koksharov, Yu.V. Parysheva* Improving the accuracy of speed-up angular rate determination  [abstract](http://www.elektropribor.spb.ru/en/n1_2012.html#a3) | 27 |
| *E. A. Mikrin, M. V. Mikhailov, S. N. Rozhkov, A. S. Semenov* The results of a flight experiment aboard the international space station to study the effect of multipath on navigation, attitude control and rendezvous using measurements of satellite navigation equipment  [abstract](http://www.elektropribor.spb.ru/en/n1_2012.html#a4) | 42 |
| *A. M. Boronakhin, L. N. Podgornaya, E. D. Bokhman, N. S. Filipenya, Yu. V. Filatov, R. B. Shalymov, D. Yu. Larionov* MEMS-based inertial system for railway track diagnostics  [abstract](http://www.elektropribor.spb.ru/en/n1_2012.html#a5) | 57 |
| *C. Kebler, C. Ascher, M. Flad, G. F. Trommer* Multi-sensor indoor pedestrian navigation system with vision aiding  [abstract](http://www.elektropribor.spb.ru/en/n1_2012.html#a6) | 67 |
| *N.V. Mikhailov, S.S. Pospelov, M.V. Vasilyev, D.E. Yudakin, P.V. Glushkov* Extralong coherent accumulation for multipath mitigation in GNSS receiver  [abstract](http://www.elektropribor.spb.ru/en/n1_2012.html#a7) | 85 |
| *A. E. Fedorov, V. A. Chirkov, D. A. Rekunov, N. V. Uspekhov, E. V. Trushkovskii* Small three-axis laser gyroscope M-40  [abstract](http://www.elektropribor.spb.ru/en/n1_2012.html#a8) | 92 |
| *A.M. Kurbatov, R.A. Kurbatov* Methods of improving the accuracy of fiber-optic gyros  [abstract](http://www.elektropribor.spb.ru/en/n1_2012.html#a9) | 102 |
| *M.I. Evstifeev, I.B. Chelpanov* Quality criteria and optimization issues of designs for RR-type micromechanical gyros  [abstract](http://www.elektropribor.spb.ru/en/n1_2012.html#a10) | 122 |

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

|  |  |
| --- | --- |
| *B.S. Rivkin* European Navigation Conference ENC2011 | 133 |

**Information**

|  |  |
| --- | --- |
| *T.V.Siraya* 15 International Congress of Metrologie | 137 |
| *Russian and international conferences, symposia and exhibitions* | 140 |
| *Abstracts of the published papers* | 145 |