CHRONICLE

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The following papers on the topic *Machine Vision of Robots Functioning in a Nondeterministic Environment* will be published in the November special issue of *Opticheskii Zhurnal* (Journal of Optical Technology), vol. 77, no. 11, 2010.

Preface by the issue's editor (A.S. Potapov).

Problems of Robotic Vision for Essentially Nondeterministic Environments (A.S. Potapov); Design and Optimization Principles of Image Processing Algorithms for Implementation in Embedded Processor Systems (S.I. Fedorenko); Modern Approaches to Computer Design for Machine Vision Systems (I.A. Aslaev); Specific Features of the Image Comparison in Problems of Position Location of a Moving Robot (N.N. Lapina, V.R. Lutsiv, I.A. Malyshev, and A.S. Potapov); The Use of a Visual Attention Model in Solution of Problems of Autonomous Navigation of Mobile Robots (V.Yu. Pimenov); Methods of Contour Detection and Keypoint Description for Comparing Indoor Color Images (P.I. Ivanov, A.E. Manichev, and A.S. Potapov); Visual Navigation with Time-of-Flight Camera (S.V. Serebryakov and L.A. Stankevich); Identified Point Set Clustering on Dynamic Scene Images Based on Principle of Minimum Description Length (M.V. Peterson); Noise-Immune Method of

Optical Flow Construction by Several Frames (V.A. Kozlov); Learning Image Comparison Systems by Optimizing of Their Feature Representations (A.N. Averkin); Development of Perceptual Knowledge Representation Elements in Computer Vision Systems (A.S. Rozhkov).

Letters to the Editor. The Use of a Poly(*para*-xylene)—Ag Metal—Polymeric Nanocomposite as Medium with Specified Optical Characteristics (V.G. Bespalov, I.A. Boginskaya, I.V. Bykov, A.P. Vinogradov, A.V. Gusev, A.V. Dorofeenko, K.A. Mailyan, A.V. Pebalk, and I.A. Ryzhikov); Generation of Multiple and Combination Radiation Frequencies from a Small Number of Frequencies During Nonlinear Reflection of Two Light Waves Incident at Different Angles (S.A. Kozlov and V.K. Turkov); Experimental Study of the Action of 0.05–2 THz Radiation on Biotissues of Various Thicknesses in Medical Diagnostics (Ya.V. Grachev, I.A. Kuklin, I.V. Gerasimov, O.A. Smolyanskaya, S.A. Kozlov, and V.G. Bespalov); Slit Diffraction of Terahertz Wave Packet from Single Field Oscillation (S.A. Kozlov and D.V. Ivanov).

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