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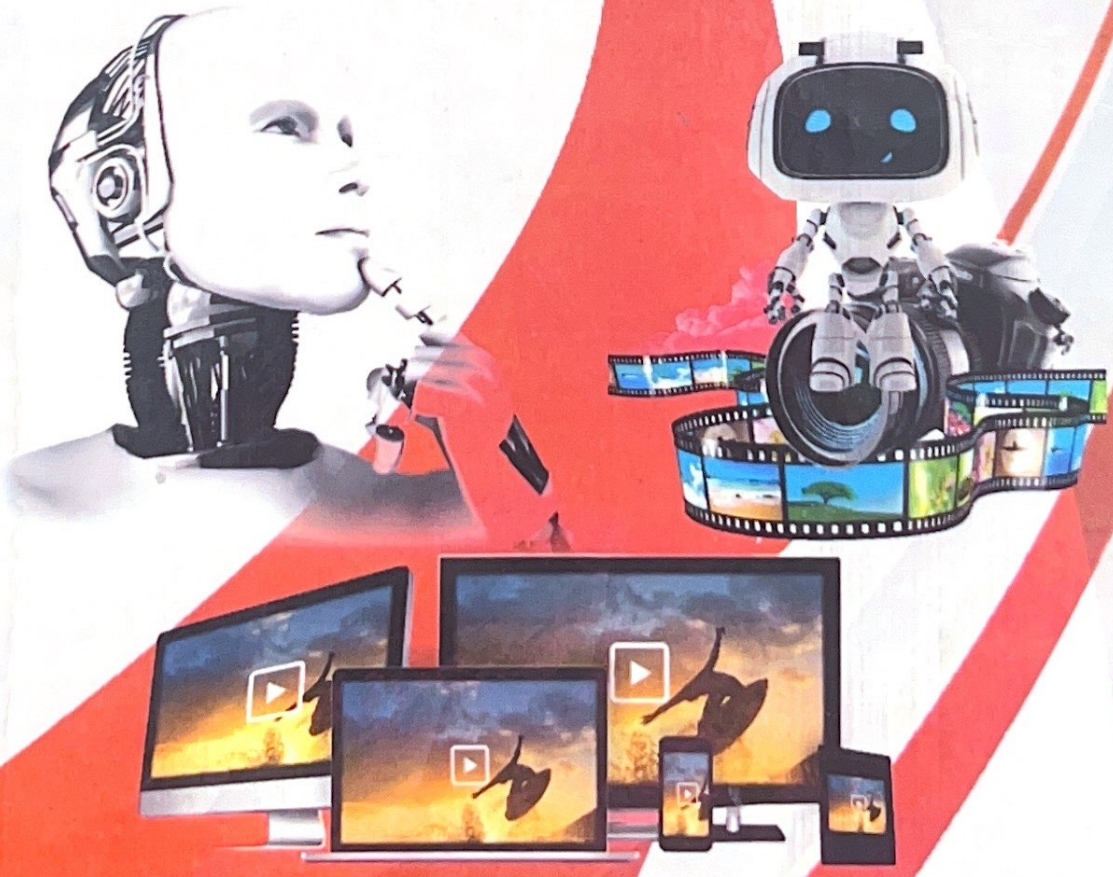
METHODS AND ALGORITHMS OF DIGITAL IMAGE PROCESSING. SOFTWARE IMPLEMENTATION IN MATLAB



Kyiv– 2023

УДК 004.9 : 51–74 : 519.688
М 61

Рекомендовано до друку Вченою радою Київського міжнародного університету
(протокол № 10 від 29.05.2023 р.).

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М 61 **Methods and Algorithms of Digital Image Processing. Software Implementation in MATLAB (*updated*): *tutorial for students majoring in 121 – "Software Engineering", 122 – "Computer Science and Information Technology", 125 – "Cybersecurity".*** Kyiv International University, 2023. 292 p.
ISBN 978-617-651-232-5

The textbook contains methods and algorithms for digital image processing used to highlight the contours of graphic elements in images, methods of interpolating images using numerical interpolation methods, methods of modern digital image processing in various applications based on the equations of mathematical physics and graphic processing methods real-time with elements of machine learning. The guide provides steganographic digital image processing techniques that are widely used in the protection of graphics, such as copyright objects.

The appendices of the manual contain the main software implementations of methods and algorithms in the MATLAB application software package, which are used in practice, as well as the results of experiments of the considered problems.

The textbook is intended for students majoring in Computer Science and Information Technology, graduate students of technical specialties, teachers and researchers involved in digital graphics processing.

ISBN 978-617-651-232-5
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