IWCIA 2020, Novi Sad, Serbia, July 16-18, 2020

WEB SITE: https://iwcia2020.wordpress.com

TOPICS:

The Workshop is a forum for current research on the following (or similar) research subjects which are directly or potentially applicable to image analysis:

- Combinatorial problems in the discrete plane and space; Lattice polygons and polytopes

- Digital/combinatorial geometry and topology

- Digital manifolds; Geometry of digital curves and surfaces

- Analysis and processing of digital surfaces with singularities (such as "pinched digital surfaces")

- Homotopy of digital manifolds; Thinning algorithms and skeletons

- Boundary tracking of digital solids; Geometric characteristics of object boundaries

- Multigrid convergence analysis of metric-based descriptors

- Tilings and patterns; Combinatorial pattern matching

- Computational geometry and imaging sciences

- Integer programming, linear programming, and graph theoretic models and approaches to problems of image analysis

- Image representation, segmentation, grouping, and reconstruction

- Processing "very large" digital pictures; Methods for image compression

- Parallel architectures and algorithms

- Fuzzy and stochastic image analysis

- Discrete tomography

- Grammars and models for image or scene analysis and recognition; Cellular automata

- Mathematical morphology and image analysis

- Applications in medical imaging, biometrics, computer vision, image understanding, robotics, metrology, and others

DATES:

Full paper submission due **January 15, 2020**

Notification of acceptance – March 8, 2020

Final camera-ready papers – April 5, 2020

Conference dates – **July 16-18, 2020**, Novi Sad, Serbia

INVITED SPEAKERS:

Gabor T. Herman (The Graduate Center, City University of New York, USA)
Gyula O.H. Katona (Hungarian Academy of Sciences, Budapest, Hungary)

PUBLICATION:

The conference proceedings will be published in the Springer's "Lecture Notes in Computer Science" series (pending approval).

REVIEW PROCESS:

The submitted papers are expected to meet high standards satisfying serious evaluation criteria. Each paper will be reviewed thoroughly by at least two members of the Program Committee. Double-blind review process will be applied to ensure maximal objectiveness.

JOURNAL SPECIAL ISSUE:

After the conference, the authors can submit extended versions of their works for publication in special journal issues.