

# CALL FOR CHAPTERS/Circular no 2

New book proposal for scientists involved in application of graph theory.

December, 2019

TITLE:

**Graph-based modelling in science, technology and art**

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IFTToMM  
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University of Bielsko-Biala



## General introduction:

The Editors of the proposed book are:

**Stanislaw Zawiślak, PhD**

University Professor

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Vice-Dean of the Faculty

University of Bielsko-Biala,  
Bielsko-Biala,  
Poland

Just a few years ago, they have successfully prepared the book Entitled:

## GRAPH-BASED MODELLING IN ENGINEERING

which in 2016-2017 was in 25% top downloaded SPRINGER products taking into account downloaded chapters.

We do hope that the **new proposed project** could be a valuable continuation of the previous volume. It makes an opportunity to publish original results as a chapter of the regular book in the prestigious, world-wide known and esteemed publishing company i.e. SPRINGER.

MMS Series has above 60 volumes and is also world-wide known due to the framework of the organization IFTToMM which gathered approx. 50 countries.

These who are involved in the fields related to the mentioned in the scope **are kindly invited** to submit recent original achievements or a survey-type papers in English, only.

The book will be peer-to-peer reviewed, so we also expect your participation in review process.

## Scope/Topics

*According to technology:*

- mechanical engineering,
- machine and mechanism science (formerly MMT),
- mechatronics,
- civil engineering,
- management systems,
- production systems,
- production management,
- automation,
- robotics, etc.

*According to science:*

- design theory,
- chemistry,
- biomechanics,
- mechanics of fluids,
- social networks,
- networks,
- programming methodology,
- encoding,
- pattern recognition,
- IT, etc.

*According to art:*

- text analysis,
- theatre play analysis,
- artificial scenarios,
- plot analysis and creating,
- semantic networks

*According to graphs:*

- linear graphs,
- digraphs,
- mixed graphs,
- signal-flow graphs,
- bond-graphs,
- contour graphs,
- hypergraphs,
- vector-network graphs,
- generalized networks,
- matrices,
- networks,
- Petri-nets,
- graph grammars,
- dual graphs,
- graph related polynomials,

## Aim

The aim of the proposed BOOK is to show a modern spectrum of application of versatile graphs in wide range of problems related to science, technology and art. Its novelty consists in **joining** of all the mentioned fields of knowledge together – which have not been gathered yet. The application will be related to different types of graphs, e.g.: bond, mixed or flow graphs, Petri nets, hypergraphs as well as graph grammars etc. which *previously* had been considered separately.

## Deadlines (rough version)

- September 2019 Declarations of Authors of the Chapters
- October/November 2019 Signing an agreement/contract
- November 2019 Confirmation of the project
- April-May 2020 Delivering of proposed Chapters
- May-June 2020 Reviewing process
- Early June 2020 Final acceptance of the submitted Chapters
- November 2020 Submission of final version of the BOOK
- December 2020 beginning of 2021 printing of books to Authors.

The **SPRINGER** book will be edited – under framework of **MMS Series** – Series Editor: Prof. Marco Ceccarelli.

## Conditions for delivering a chapter

The preparation of the Chapter is free of charge. The Authors could buy the hard copy for themselves. They will obtain the electronic version of their works from the Editors.

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In case of question - please – do not hesitate to contact us.

Yours Sincerely  
Stan Zawislak and Jacek Rysinski