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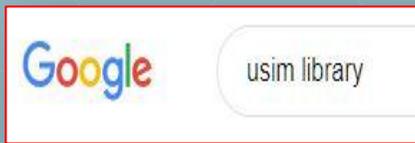
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The screenshot displays the USIM Library Catalogue OPAC interface. At the top, there are navigation links for 'Cart' and 'Lists', along with 'Log in to your account' and 'Search history [x]'. The main header features the USIM logo and the text 'USIM LIBRARY CATALOGUE UNIVERSITI SAINS ISLAM MALAYSIA' and 'OPAC'. Below the header is a search bar with 'Library catalog' selected, a search button labeled 'Go', and a dropdown menu for 'All libraries'. The search results area shows a message: 'No results found! No results found for that in USIM Library catalog.' The page also includes links for 'Advanced search', 'Course reserves', 'Authority search', 'Tag cloud', and 'Purchase suggestions'.

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8

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and Keyword [-] [+]

and Keyword [-] [+]

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<input type="checkbox"/> Encyclopedia Reference Pandan Indah	<input type="checkbox"/> Encyclopedia Ruknu Arabi	<input type="checkbox"/> Exam Paper	<input type="checkbox"/> Handbook Infad
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- Author phrase
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- Conference name
- Conference name phrase
- Personal name
- Personal name phrase
- Notes/Comments
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Knowledge Management

10

Keyword [v] [x] [y]

Keyword [v] [x] [y]

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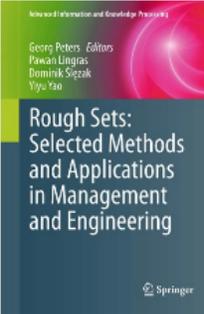
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Rough Sets: Selected Methods and Applications in Management and Engineering

Editors ([view affiliations](#))
Georg Peters, Pawan Lingras, Dominik Ślęzak, Yiyu Yao

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An Introduction to Rough Sets

Yiyu Yao and Dominik Ślęzak

Abstract Fundamental philosophy, concepts and notions of rough set theory (RST) are reviewed. Emphasis is on a constructive formulation and interpretation of rough set approximations. We restrict our discussions to classical RST introduced by Pawlak, with some brief references to the existing extensions. Whenever possible, we provide multiple equivalent definitions of fundamental RST notions in order to better illustrate their usefulness. We also refer to principles of RST based data analysis that can be used to mine data gathered in information tables.

1 Introduction

Rough set theory (RST) provides a mathematical formalism and means for representing and analyzing data [1–4]. Several unique features of the theory make it attractive to practitioners. RST is simple, elegant and, at the same time, flexible. It has been successfully applied in many areas, including those described in this book [5–10], as well as many others [11–14].

It is also worth mentioning that quite a few RST based data analysis software packages have been developed, including LERS,¹ ROSETTA,² RSES³/RSES-lib⁴

¹<http://fighting.eecs.ku.edu/LERS.html>.
²<http://www.lch.uu.se/tools/rosetta/>.
³<http://logic.mimuw.edu.pl/~rses/>.
⁴<http://rseplib.mimuw.edu.pl/>.

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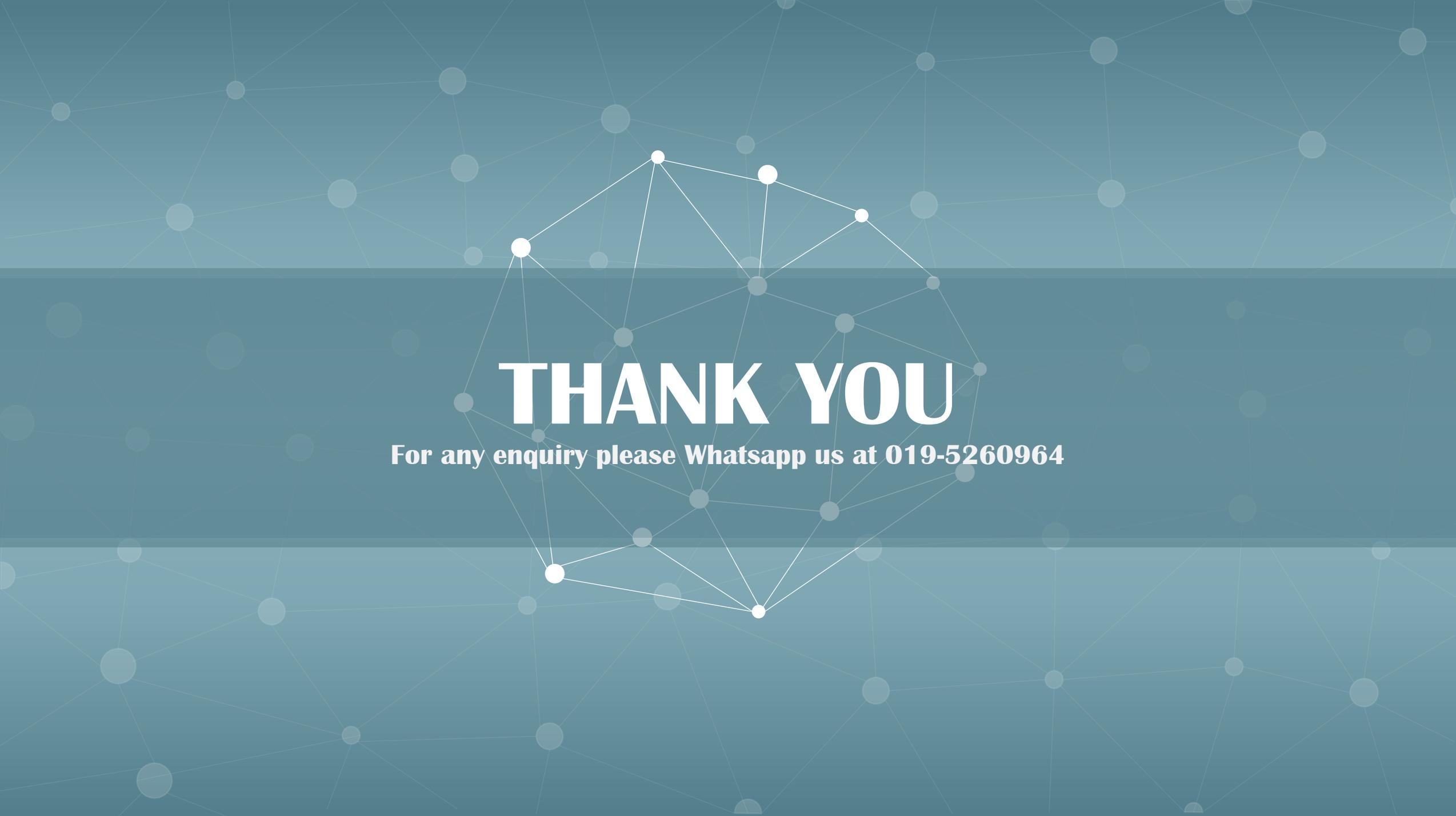
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