Computer Science 836  
Rough Sets and Applications  

Department of Computer Science  
University of Regina  
Winter 2021  

Instructor:  Dr. Y.Y. Yao, CW308.6, 585-5226,  
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Lecture:  Tuesday, Thursday 2:30PM – 3:45PM  
Class location:  Zoom Lecture (Links will be available from UR Courses)  

URL:  UR Courses  
https://urcourses.uregina.ca/login/index.php  

Office hours:  Zoom office hours  
(Time and Links will be available from UR Courses)  

Course description:  
Theory of rough sets is a fundamental mathematical methodology for modelling classification or decision problems involving imprecise or uncertain information. Its implications include pattern classification, data mining, machine learning, control algorithm acquisition from data, circuit design and others. The course will provide the basics of the methodology and will include the study of the above applications of rough sets.  

Prior to registering for this course, students should have a background in discrete computational structures, artificial intelligence and statistical methods comparable to the senior undergraduate level.  

Text:  
1. Z. Pawlak, Rough Sets – Theoretical Aspects of Reasoning about Data  
2. Additional materials will be provided in the UR Courses.  

Grading:  
Assignments (5)  25%  
Mid-term (2)  30%  
Final Examination (1)  45%  
Instructor's Discretion  ± 5%  

Please submit your assignments through UR Courses the due date.  
No late assignments will be accepted, unless other arrangement has been made.  

Please read the University of Regina Graduate Calendar  
https://www.uregina.ca/gradstudies/current-students/grad-calendar/index.html
regarding Responsibilities of Students, Academic Misconduct, etc.

Notes:
1. Please see the following pages for "Remote Learning," "Technical Requirements and Support," and other related information for attending Zoom lectures and taking examinations in UR Courses:
   https://www.uregina.ca/remote-learning/index.html
2. If you have any questions, suggestions, and/or concerns, please feel free to contact me through email or UR Course mail.
3. For final examination, Proctortrack will be used.