

SERDECZNIE ZAPRASZAMY NA WYKŁAD POD TYTUŁEM

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# ARTIFICIAL INTELLIGENCE (AI) AND PATTERN RECOGNITION (PR) - THEIR FUNDAMENTALS AND APPLICATIONS -

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WYGŁOSZONYM PRZEZ

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**W DNIU 3/10/2017, GODZ. 14:15-15:45, SALA 4060**

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## ABSTRACT:

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This talk is concerned with important aspects of AI (Artificial Intelligence) and PR (Pattern Recognition), including the following: Basic Concept of 2-dimensional Automata theory and its applications to AIPR. Brief Overview of Artificial Intelligence (AI), Brief Overview of Pattern Recognition (PR), What is (IPR)? Interactive Pattern Recognition Concept, Importance of Measurement and Ambiguity, How it works, in relation to the concept of Modeling and Simulation, Basic Principles and Applications to Computer Vision, Image Processing , and Biomedical Image Analysis. Also talk about how to disambiguate an ambiguous image? and more Examples and Applications of Learning using Computer Vision. Finally, some future research directions are discussed.

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## INTENDED AUDIENCE:

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Scientists and engineers, with some computer science, artificial intelligence, pattern recognition, and/or image processing background or working experience.

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## WHY THIS TOPIC WOULD BE OF INTEREST TO A SUBSTANTIAL PART OF THE AUDIENCE:

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Attendees can learn basic concept of “Artificial Intelligence” (AI) , and Pattern Recognition” (PR) which is of growing interest and importance in recent years, especially in this “Automation World”, and its applications in many fields, including engineering, scientific experiments, biomedical imaging, pattern recognition, and homeland national security.



## **AI, PR and Applications**

Prof. Patrick S.P. Wang, *Fellow, IAPR, ISIBM & WASE IEEE and ISIBM Outstanding Achievement Awardee*  
Professor of Computer and Information Science  
Northeastern University, Boston, MA, USA  
Zijiang Visiting Chair, ECNU, Shanghai, China  
iCORE Visiting Professor, University of Calgary, Canada  
Otto-von-Guericke Distinguished Guest Professor, University  
Magdeburg, Germany  
Founding Editor-in-Chief, IJPRAI and MPAI Book Series, WSP

### **Brief Biography of the Presenter**

**Prof. Patrick S.P. Wang, PhD. Fellow, IAPR, ISIBM, WASE, and IEEE & ISIBM Outstanding Achievement Awardee**, is Tenured Full Professor, Northeastern University, USA, iCORE (Informatics Circle of Research Excellence) Visiting Professor, University of Calgary, Canada, Otto-Von-Guericke Distinguished Guest Professor, Magdeburg University, Germany, Zijiang Visiting Chair, ECNU, Shanghai, China, as well as honorary advisory professor of several key universities in China, including Sichuan University, Xiamen University, East China Normal University, Shanghai, and Guangxi Normal University, Guilin.

Prof. Wang received his BSEE from National Chiao Tung University (Jiaotong University), MSEE from National Taiwan University, MSICS from Georgia Institute of Technology, and PhD, Computer Science from Oregon State University.

Dr. Wang has published over 26 books, 200 technical papers, 3 USA/European Patents, in PR/AI/TV/Cybernetics/Imaging, and is currently founding Editor-in-Chief of *IJPRAI*

(*International Journal of Pattern Recognition and Artificial Intelligence*), and Book Series of *MPAI*, WSP. In addition to his technical interests, Dr. Wang also published a prose book, "*Harvard Meditation Melody*" and many articles and poems regarding Du Fu and Li Bai's poems, Beethoven, Brahms, Mozart and Tchaikovsky's symphonies, and Bizet, Verdi, Puccini and Rossini's operas.

### **For further details, please contact:**

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