EMI Teacher Community, AACSB, NTPU

Teaching Experiences Sharing of EMI Courses in AI for Business Applications

2022/5/5 (Thursday) 12:10 - 13:00
B302, AACSB, National Taipei University

https://meet.google.com/zuc-yyaw-mnt

Min-Yuh Day, Ph.D,
Associate Professor

Institute of Information Management, National Taipei University

https://web.ntpu.edu.tw/~myday

2022-05-05

國立臺北大學
National Taipei University

aws educate | Cloud Ambassador
2020 Cohort

aws academy
Accredited Educator

aws certified
Solutions Architect
Associate

aws certified
Cloud Practitioner

Min-Yuh Day, Ph.D.

aws educate | Cloud Ambassador
2020 Cohort

Associate Professor, Information Management, NTPU

Visiting Scholar, IIS, Academia Sinica

Ph.D., Information Management, NTU

Director, Intelligent Financial Innovation Technology, IFIT Lab, IM, NTPU

Artificial Intelligence, Financial Technology, Big Data Analytics,
Data Mining and Text Mining, Electronic Commerce

國立臺北大學
National Taipei University

中央研究院 ACADEMIA SINICA 1928

Outline

- EMI Teacher Community, AACSB, NTPU
- EMI Courses in AI for Business Applications
- Teaching Experiences Sharing

EMI Teacher Community
AACSB, NTPU

EMI Teacher Community Activities

- 1. 2022/05/05 (Thursday) 12:00 pm-13:00 pm, B302
  - **Teaching Experiences Sharing of EMI Courses in AI for Business Applications**
  - **Min-Yuh Day**, National Taipei University,
  - https://meet.google.com/zuc-yyaw-mnt
- 2. 2022/05/11 (Wednesday) 9:10 am - 12:00 pm, B313
  - **Agile Principles Patterns and Practices in FinTech and Digital Transformation**
  - **Shihyu (Alex) Chu**, Senior Industry Analyst/Program Manager, Market Intelligence & Consulting Institute (MIC)
  - https://docs.google.com/forms/d/e/1FAIpQLScI7zvABRvtffqeZgT-_OWNbOsyIXBOn6Lt_tJ4-SuhZENyRQ/viewform
- 3. 2022/05/11 (Wednesday) 12:10 pm - 13:00 pm, B313
  - **Professional Business Presentations in English**
  - **Shihyu (Alex) Chu**, Senior Industry Analyst/Program Manager, Market Intelligence & Consulting Institute (MIC)
  - https://docs.google.com/forms/d/e/1FAIpQLScA0Qq52qjQ5MDAyEDxHyui7VrVdkIpsOSDzWXAwWi-kKLVAw/viewform
- 4. 2022/05/18 (Wednesday) 12:10 pm - 13:00 pm, B313
  - **Web 3: From DeFi to WoFi**
  - **Prof. Shih-wei Liao**, National Taiwan University
  - https://docs.google.com/forms/d/e/1FAIpQLSdkE-x4CW2w2LAjPEJcHCx25GAx4KYS1cHxUv9iiroda1cXYQ/viewform

EMI Courses in AI for Business Applications

EMI Courses in AI for Business Applications

- **Artificial Intelligence for Text Analytics**
  - Spring 2022
- **Software Engineering**
  - Spring 2022

https://web.ntpu.edu.tw/~myday/teaching.htm

Teaching Experiences Sharing

Teaching Experiences (EMI)

- **Artificial Intelligence for Text Analytics**
  - Spring 2022
- **Software Engineering**
  - Fall 2020, Fall, 2021, Spring 2022
- **Artificial Intelligence in Finance and Quantitative**
  - Fall 2021
- **Artificial Intelligence**
  - Spring 2021
- **Data Mining**
  - Spring 2021
- **Big Data Analytics**
  - Fall 2020
- **Foundation of Business Cloud Computing**
  - Spring 2021, Spring 2022

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Teaching Experiences (EMI)

- **AI in Finance Big Data Analytics (Fall 2019)**
  - MBA, DBETKU (3 Credits, Elective) [Full English Course] [Distance Learning]
- **Big Data Mining (Fall 2018)**
  - MBA, DBETKU (3 Credits, Required) [Full English Course]
- **Social Media Apps Programming (Fall 2013 - Fall 2018)**
  - MBA, IMTKU (2 Credits, Elective) [Full English Course]
  - Fall 2018, Fall 2017 , Fall 2016 , Fall 2015 , Fall 2014 , **Fall 2013**

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NTPU
國立臺北大學
National Taipei University

Introduction to Artificial Intelligence for Text Analytics

1102AITA01
MBA, IM, NTPU (M5026) (Spring 2022)
Tue 2, 3, 4 (9:10-12:00) (B8F40)

https://meet.google.com/paj-zhhj-mya

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2020 Cohort
aws academy Accredited Educator
aws certified Cloud Practitioner
aws certified Solutions Architect Associate

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Institute of Information Management, National Taipei University
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2022-02-22

Course Syllabus
National Taipei University
Academic Year 110, 2nd Semester (Spring 2022)

- **Course Title: Artificial Intelligence for Text Analytics**
- **Instructor: Min-Yuh Day**
- **Course Class: MBA, IM, NTPU (3 Credits, Elective)**
- **Details**
  - **In-Class and Distance Learning EMI Course (3 Credits, Elective, One Semester) (M5026)**
- **Time & Place: Tue, 2, 3, 4, (9:10-12:00) (B8F40)**
- **Google Meet:** https://meet.google.com/paj-zhhj-mya

https://meet.google.com/paj-zhhj-mya

Course Objectives

1. Understand the fundamental concepts and research issues of Artificial Intelligence for Text Analytics.
2. Equip with Hands-on practices of Artificial Intelligence for Text Analytics.
3. Conduct information systems research in the context of Artificial Intelligence for Text Analytics.

Course Outline

- This course introduces the fundamental concepts, research issues, and hands-on practices of Artificial Intelligence for Text Analytics.
- Topics include:
  1. Introduction to Introduction to Artificial Intelligence for Text Analytics
  2. Foundations of Text Analytics: Natural Language Processing (NLP)
  3. Python for Natural Language Processing
  4. Natural Language Processing with Transformers
  5. Text Classification and Sentiment Analysis
  6. Multilingual Named Entity Recognition (NER), Text Similarity and Clustering
  7. Text Summarization and Topic Models
  8. Text Generation
  9. Question Answering and Dialogue Systems
  10. Deep Learning, Transfer Learning, Zero-Shot, and Few-Shot Learning for Text Analytics
  11. Case Study on Artificial Intelligence for Text Analytics

Core Competence

- **Exploring new knowledge in information technology, system development and application 80 %**
- **Internet marketing planning ability 10 %**
- **Thesis writing and independent research skills 10 %**

Four Fundamental Qualities

- **Professionalism**
  - **Creative thinking and Problem-solving 40 %**
  - **Comprehensive Integration 40 %**
- **Interpersonal Relationship**
  - **Communication and Coordination 10 %**
  - **Teamwork 5 %**
- **Ethics**
  - **Honesty and Integrity 0 %**
  - **Self-Esteem and Self-reflection 0 %**
- **International Vision**
  - **Caring for Diversity 0 %**
  - **Interdisciplinary Vision 5 %**

College Learning Goals

- Ethics/Corporate Social Responsibility
- Global Knowledge/Awareness
- Communication
- Analytical and Critical Thinking

Department Learning Goals

- **Information Technologies and System Development Capabilities**
- **Internet Marketing Management Capabilities**
- **Research capabilities**

Syllabus

Week	Date	Subject/Topics
1	2022/02/22	Introduction to Artificial Intelligence for Text Analytics
2	2022/03/01	Foundations of Text Analytics: Natural Language Processing (NLP)
3	2022/03/08	Python for Natural Language Processing
4	2022/03/15	Natural Language Processing with Transformers
5	2022/03/22	Case Study on Artificial Intelligence for Text Analytics I
6	2022/03/29	Text Classification and Sentiment Analysis

Syllabus

Week	Date	Subject/Topics
7	2022/04/05	Tomb-Sweeping Day (Holiday, No Classes)
8	2022/04/12	Midterm Project Report
9	2022/04/19	Multilingual Named Entity Recognition (NER), Text Similarity and Clustering
10	2022/04/26	Text Summarization and Topic Models
11	2022/05/03	Text Generation
12	2022/05/10	Case Study on Artificial Intelligence for Text Analytics II

Syllabus

Week	Date	Subject/Topics
13	2022/05/17	Question Answering and Dialogue Systems
14	2022/05/24	Deep Learning, Transfer Learning, Zero-Shot, and Few-Shot Learning for Text Analytics
15	2022/05/31	Final Project Report I
16	2022/06/07	Final Project Report II
17	2022/06/14	Self-learning
18	2022/06/21	Self-learning

Teaching Methods and Activities

- Lecture
- Discussion
- Practicum

Evaluation Methods

- Individual Presentation 60 %
- Group Presentation 10 %
- Case Report 10 %
- Class Participation 10 %
- Assignment 10 %

Software Engineering

NTPU
國立臺北大學
National Taipei University

Introduction to Software Engineering

1102SE01
MBA, IM, NTPU (M5010) (Spring 2022)
Wed 2, 3, 4 (9:10-12:00) (B8F40)

https://meet.google.com/ish-gzmy-pmo

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aws certified Solutions Architect Associate

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Associate Professor

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2022-02-23

Course Syllabus
National Taipei University
Academic Year 110, 2nd Semester (Spring 2022)

- **Course Title: Software Engineering**
- **Instructor: Min-Yuh Day**
- **Course Class: MBA, IM, NTPU (3 Credits, Elective)**
- **Details**
  - **In-Person and Distance Learning EMI Course (3 Credits, Elective, One Semester) (M5010)**
- **Time & Place: Wed, 2, 3, 4, (9:10-12:00) (B8F40)**
- **Google Meet:** https://meet.google.com/ish-gzmy-pmo

https://meet.google.com/ish-gzmy-pmo

Course Objectives

1. Understand the fundamental concepts and research issues of software engineering.
2. Equip with Hands-on practices of software engineering.
3. Conduct information systems research in the context of software engineering.

Course Outline

- **This course introduces the fundamental concepts, research issues, and hands-on practices of software engineering.**
- **Topics include:**
  1. Introduction to Software Engineering
  2. Software Products and Project Management: Software product management and prototyping
  3. Agile Software Engineering: Agile methods, Scrum, and Extreme Programming
  4. Features, Scenarios, and Stories
  5. Software Architecture: Architectural design, System decomposition, and Distribution architecture
  6. Cloud-Based Software: Virtualization and containers, Everything as a service, Software as a service
  7. Cloud Computing and Cloud Software Architecture
  8. Microservices Architecture, RESTful services, Service deployment
  9. Security and Privacy; Reliable Programming
  10. Testing: Functional testing, Test automation, Test-driven development, and Code reviews
  11. DevOps and Code Management: Code management and DevOps automation
  12. Case Study on Software Engineering

Core Competence

- **Exploring new knowledge in information technology, system development and application 80 %**
- **Internet marketing planning ability 10 %**
- **Thesis writing and independent research skills 10 %**

Four Fundamental Qualities

- Professionalism
  - Creative thinking and Problem-solving 30 %
  - Comprehensive Integration 30 %
- Interpersonal Relationship
  - Communication and Coordination 10 %
  - Teamwork 10 %
- Ethics
  - Honesty and Integrity 5 %
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College Learning Goals

- Ethics/Corporate Social Responsibility
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Department Learning Goals

- **Information Technologies and System Development Capabilities**
- **Internet Marketing Management Capabilities**
- **Research capabilities**

Syllabus

Week	Date	Subject/Topics
1	2022/02/23	Introduction to Software Engineering
2	2022/03/02	Software Products and Project Management: Software product management and prototyping
3	2022/03/09	Agile Software Engineering: Agile methods, Scrum, and Extreme Programming
4	2022/03/16	Features, Scenarios, and Stories
5	2022/03/23	Case Study on Software Engineering I
6	2022/03/30	Software Architecture: Architectural design, System decomposition, and Distribution architecture

Syllabus

Week	Date	Subject/Topics
7	2022/04/06	Make-up holiday (No Classes)
8	2022/04/13	Midterm Project Report
9	2022/04/20	Cloud-Based Software: Virtualization and containers, Everything as a service, Software as a service
10	2022/04/27	Cloud Computing and Cloud Software Architecture
11	2022/05/04	Microservices Architecture, RESTful services, Service deployment
12	2022/05/11	Industry Practices of Software Engineering

Syllabus

Week	Date	Subject/Topics
13	2022/05/18	Case Study on Software Engineering II
14	2022/05/25	Security and Privacy; Reliable Programming; Testing: Test-driven development, and Code reviews; DevOps and Code Management: DevOps automation
15	2022/06/01	Final Project Report I
16	2022/06/08	Final Project Report II
17	2022/06/15	Self-learning
18	2022/06/22	Self-learning

Teaching Methods and Activities

- Lecture
- Discussion
- Practicum

Evaluation Methods

- Individual Presentation 60 %
- Group Presentation 10 %
- Case Report 10 %
- Class Participation 10 %
- Assignment 10 %

Summary

- EMI Teacher Community, AACSB, NTPU
- EMI Courses in AI for Business Applications
- Teaching Experiences Sharing

EMI Teacher Community, AACSB, NTPU

Q & A

Teaching Experiences Sharing of EMI Courses in AI for Business Applications

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2022-05-05