

Curriculum Vitae



Dr. Wen-der Yu (余文德),
Distinguished Preofessor (特聘教授),
Department of Construction Engineering (營建系),
Chaoyang University of Technology (朝陽科大),
Taiwan.

- Degrees (學歷):
B.S. National Central University, Taiwan (1989)
MSCE Purdue University, USA (1993)
Ph.D. Purdue University, USA (1996)
- Visiting scholarships (訪問研究)
Reading University, UK (2004)
University of Sydney, Australia (2010)
Purdue University, USA (2012)
- Research interests (研究興趣):
Construction project management (專案管理),
AI applications in construction (人工智慧),
Heterogeneous procurement (異質採購),
Construction safety (營建勞安),
Building Information Modeling (BIM).
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Summary

General Introduction (簡介)

Dr. Wen-der Yu is currently the Professor of the Department of Construction Engineering, also serves as the Assistant Vice President for International Affairs at Chaoyang University of Technology, Taiwan. He received his BS degree from the

Department of Civil Engineering of National Central University, Taiwan. After being awarded with the Annual National Scholarship for Oversea Study (ANSOS) by the Ministry of Education (MOE), Taiwan, Dr. Yu pursued his MSCE and Ph.D. degrees in Purdue University of USA. Prior to his current appointment he served for 19 years as a faculty member at Chung Hua University in Hsinchu, Taiwan, where he also served many academic administration positions including Chairman of the Department of Construction Engineering, Dean of Student Affairs and Dean of Office of the Research and Development. Before his academic career, Dr. Yu worked in the industry as a Senior Engineer with the Bureau of High-Speed Rail, Ministry of Communication and Transportation, Taiwan, where he was in charge of construction project planning and control. Dr. Yu is also active in the construction academia & industry in Taiwan. He served as Member of Evaluation Board of the National Award of Construction Safety Taiwan; Chairman of the Committee of Construction Project Management of Taiwan Project Management Association (TPMA); Convener of Accreditation Board of the Institute of Engineering Education Taiwan (IEET); Member of Evaluation Board of Higher Education Evaluation and Accreditation Center of Taiwan; Vice Chairman of the Committee of Publication, Chinese Construction Management Association; Member of Engineering Management Committee, Chinese Institute of Civil and Hydraulic Engineering; Assessor of IPMA Certified Project Manager, TPMA, etc. Dr. Yu has led research teams to establish two important national standards in Taiwan: the Taiwan Building Information Modeling Implementation Guide (Taiwan BIM Guide) published by the Ministry of Interior; and the Performance-based Contract Specifications (PBC SPECs) published by Public Construction Commission.

In addition to his academic career in Taiwan, Dr. Yu also outreaches internationally. He was also invited as a Visiting Professor by Reading University (UK), University of Sydney (Australia), Purdue University (USA), South East University (China), and Tongji University (China). He also serves as a members in the International Committee of many international conferences, including the International Conference on Civil, Structural and Environmental Engineering Computing, the CRIOCM International Symposium on Advancement of Construction Management and Real Estate, the International Symposium on Automation and Robotics in Construction, and the Creative Construction Conference. Dr. Yu is a member of the editorial board in international research journals, including Automation in Construction, International Journal of Construction Management, and БИОСФЕРНАЯ СОВМЕСТИМОСТЬ: ЧЕЛОВЕК, РЕГИОН, ТЕХНОЛОГИИ (Biosphere compatibility: human, region, technologies). He was the external examiner of Ph.D. degree for Hong Kong Polytech University. He has been serving as a reviewer for many international research journals, including Journal of Construction Engineering and Management (ASCE), Journal of

Computing in Civil Engineering (ASCE), Automation in Construction, International Journal of Construction Management, Construction Management and Economics, International Journal of Project Management, etc.

Dr. Yu was appointed as the Foreign Adviser to the Russian Academy of Architecture and Construction Sciences, Russia, in February 2020 in recognition of his contribution in academia.

Description of Research Works (研究領域紹介)

As a researcher and educator, Prof. Yu has published more than 350 publications including books, reports and research articles. Dr. Yu initialized his research interest in traditional artificial intelligence (AI) techniques e.g., expert systems, artificial neural networks, fuzzy sets, neuro-fuzzy synergy (NFS), and genetic algorithms applications for construction engineering, including NFS-based construction cost estimation, data mining of incomplete construction data, hybridization of CBR and numeric soft computing techniques. While being visiting Reading University of UK in 2004, Dr. Yu turned to research the wide-range technologies required for developing the knowledge management system to solve complicated construction engineering problems, e.g., uncertain, scarcity, and incomplete data issues. With a long-term academic-industry collaboration research for 10 years with the top-ranked design and engineering consulting firm in Taiwan (CECI Inc.), Dr. Yu produced fruitful research results on knowledge management. His works reduced the engineering problem-solving time from the average 5.2 days to 6.67 hours, which changed the competitiveness of engineering industry dramatically. During the same period, he also began to concern the environmental aspects of construction and develop the first model of construction social cost (COSCO) in literature and founded the basis of construction sustainability in his later research. As a Visiting Scholar in University of Sydney in 2010, Dr. Yu started establishing his theoretical framework for sustainable construction from two aspects: first, he combined AI and patent analysis based techniques to develop a systematic model for green innovation of sustainable construction technologies; second, he improved the sustainable and high performance project delivery via heterogeneous procurement and bidding approaches.

In the past decade, Dr. Yu has been focused two main issues: first, he devoted to develop a synergized approach to achieve construction sustainability through green technology innovation, heterogeneous procurement, and sustainable project management; second, he engaged in improving the construction labor safety and health

for practical construction industry both by participating in the National Construction Safety Award evaluation as an evaluator and by developing intelligent construction safety management technologies using deep-learning and advanced informatic techniques. The outstanding research works of Dr. Yu has been recognized by the Institute of Chinese Civil and Hydraulic Engineering and the Chinese Construction Management Association in Taiwan, and has won many honors, including the A-Class Distinguished Research Award of the National Science Council, Taiwan; Oversea Research Awards of Ministry of Education, Taiwan; Annual Best Research Award of the Chinese Civil and Hydraulic Engineering; Annual Best Paper Awards of the Chinese Construction Management Association; and the Best Paper Awards of many domestic and international conferences. Best Academic-Industrial Collaborative Research Project Awards of CECI Engineering Consultants, Inc. Distinguished Research Awards of Chung Hua University, Distinguished Civil Engineering Alumni of National Central University, etc.

University Appointments (校內經歷)

Academic (學術資歷)

- 2021-present, Distinguished Professor of Construction Engineering and Management, Department of Construction Engineering, Chaoyang University of Technology.
- 2016-2021, Professor of Construction Engineering and Management, Department of Construction Engineering, Chaoyang University of Technology.
- 2008-2016, Professor of Construction Engineering and Management, Department of Construction Management, Chung Hua University.
- 1996-2008, Associate Professor of Construction Engineering and Management, Department of Construction Engineering, Chung Hua University.
- 1992-1995, Research and Teaching Assistant, Construction Engineering and Management Division, School of Civil Engineering, Purdue University.

Administrative (行政資歷)

- 2017-2021, **Assistant Vice President (助理副校長)**, Chaoyang University of Technology. Assist the president in strategic planning and supervision of collaboration and partnership programs for the University.
- 2016-2021, **Dean of the Office of International and Cross-Strait Cooperation (國際長)**, Chaoyang University of Technology. Supervise the international affairs

including inbound and outbound student recruiting and exchange programs executed by the Office of the International and Cross-strait Cooperation for the University.

- 2006-2016, **Member of Presidential Advisory Board (校務諮詢委員)**, the Presidential Office, Chung Hua University. Assist the president to supervise execution the university level projects, including academic, student, general affairs.
- 2004-2006, **Dean of the Office of Research and Development (研發長)**, Chung Hua University. Plan and supervise the long-term and short-term development programs for the university, including academic, research, industrial collaborations, faculty evaluation and development.
- 2003-2004, **Dean of Student Affairs (學務長)**, Chung Hua University. Plan and supervise the functional sections as the associated affairs related to student extracurricular activities, counseling, accommodation, service learning, career development, etc.
- 2001-2003, **Chairperson of the Department of Construction Engineering (營建系主任)**, Chung Hua University. In charge and supervise all affairs related to the department academic, faculty, student and general activities.

Visiting Scholars (訪問研究與講學)

- 2013, **Visiting Professor**, Institute of Complex Project Management, Tongji University, Shanghai, China. Deliver lecture and collaborate research in sustainable project management and BIM project management.
- 2013, **Visiting Professor**, Institute of Complex Project Management, South East University, Nanjing, China. Deliver lecture and collaborate research in knowledge management systems, AI application in construction management, and BIM project management.
- 2012, **Visiting Scholar**, School of Civil Engineering, Purdue University, USA. Collaborate research in BIM project application, and construction management.
- 2010, **Visiting Professor**, University of Sydney, Australia. Deliver lecture and collaborate research in knowledge management systems, heterogeneous project procurement and bidding models.
- 2004, **Visiting Professor**, Reading University, United Kingdoms. Deliver lecture and collaborate research in knowledge management systems and AI applications in construction engineering.

Non-University Appointments (校外服務)

- 2015-present, **Member of Evaluation Board for the National Award of Construction Safety**. In charge of nomination and evaluation of the National Award of Construction Safety for public construction projects, Ministry of Labor, Taiwan.
- 2015-present, **Convener of Accreditation Board of the Institute of Engineering Education Taiwan (IEET)**. In charge of evaluation and accreditation of civil, architectural, and construction degree programs, Institute of Engineering Education Taiwan.
- 2010-present, **Vice Chairman of the Committee of Publication, Chinese Construction Management Association**. In charge of the publication of research Construction Management Journal, Chinese Construction Management Association, Taiwan.
- 2019-present, **Member of Advisory Board**, Mayor's Office, Hualien County, Taiwan. Provide county development strategic advice to the Mayor of Hualien County, Taiwan.
- 2018-present, **Member of Advisory Board for Construction Safety**, Taoyuan City, Taiwan. Participate in activities and provide advice to improve the construction safety for public construction works of Taoyuan City, Taiwan.
- 2008-2014, **Member of Evaluation Board of Higher Education Evaluation and Accreditation Center of Taiwan**. In charge of evaluation for administrative accreditation for universities, Higher Education Evaluation and Accreditation Center of Taiwan.
- 2004~2008, **Chairman of National Construction Project Management Committee**, Taiwan Project Management Association, a member of International Project Management Association (IPMA). In charge of supervision of the certification affairs of IPMA Certified Project Managers.
- 1996-1997, **Senior Engineer**, Office of Project Control, Bureau of Taiwan High Speed Rail. In charge of schedule, cost, quality control of the Taiwan High Speed Rail project.

Professional Licenses (專業證照)

- **Certified Professional Civil Engineering**, certified by the Ministry of Examination, Taiwan, Feb. 1998.
- **Project Management Professional (PMP)**, certified by PMI, USA, Nov. 2009.

- **Certified IPMA ICB Trainer**, certified by TPMA, Taiwan, Aug. 2006.
- **Certified IPMA Certified Project Manager**, ICB Level D (2006), Level C (2008), Level B (2010), certified by TPMA, Taiwan.

Awards, Recognitions and Honors (selected) (榮譽、獲獎選列)

- 2021, **Annual Best Paper Award, Institute of Chinese Civil and Hydraulic Engineering**, Taiwan.
- 2020, **Foreign Advisor**, to the Russian Academy of Architecture and Construction Sciences, Russia.
- 2001-2021, **Principal Investigator Awards** (21 consecutive years), Ministry of Science and Technology, Taiwan.
- 2016, **Annual Best Paper Award, Institute of Chinese Civil and Hydraulic Engineering**, Taiwan.
- 2015, **Distinguished Research Award**, Chung Hua University.
- 2014, **Annual Best Paper Award on Construction Management**, Chinese Construction Management Association, Taiwan.
- 2014, **Best Paper Award of 18th Symposium of Construction Engineering and Management**, Taipei, Taiwan.
- 2011, 2012, 2014, **Best Academic-Industrial Collaborative Research Project Awards**, CECI Engineering Consultants Inc., Taipei, Taiwan.
- 2013, **Best Paper Award of 11th Conference of Construction Engineering and Sustainable Energy**, Taoyuan, Taiwan.
- 2012, **Annual Best Paper Award on Construction Management**, Chinese Construction Management Association, Taiwan.
- 2011, **Best Paper Award of the 4th Cross-strait TRIZ Conference**, Harbin, China.
- 2011, **Annual Best Paper Award on Construction Management**, Chinese Construction Management Association, Taiwan.
- 2011, **Annual Oversea Research Award of Year 2012**, National Science Council, Taiwan.
- 2010, **Best Paper Award of 14th Symposium of Construction Engineering and Management**, Taipei, Taiwan.
- 2009, **Annual Oversea Research Award of Year 2010**, National Science Council, Taiwan.
- 2009, **Best Paper Award of the 2nd Cross-strait TRIZ Conference**, Chengdu, China.
- 2007, **Distinguished Civil Engineering Alumni**, National Central University.

- 2006, **Best Paper Award on Construction Management**, Chinese Construction Management Association, Taiwan.
- 2006, **Distinguished Research Award**, Chung Hua University.
- 2006, **Annual Best Paper Award on Construction Management**, Chinese Construction Management Association, Taiwan.
- 2005-2007, **Distinguished Guidance Teacher Award**, Chung Hua University.
- 2003, **Annual Oversea Research Award of Year 2004**, National Science Council, Taiwan.
- 2003, **Best Paper Award of the Annual Sewage Engineering Research**, Taiwan Sewage Association, Taiwan.
- 2000, **A-Class Distinguished Research Award**, National Science Council, Taiwan.
- 1991, **Annual National Scholarship for Oversea Study (ANSOS)**, Ministry of Education, Taiwan.
- 1989, **First Ranked Graduate Prize**, Department of Civil Engineering, National Central University.

International Invited Speeches (國際會議專題演講)

- 2021, Invited Keynote Speaker, The 3rd IEEE International Conference on Architecture, Construction, Environment and Hydraulics 2021 (ICACEH 2021), Dec. 24~26, 2021, Miaoli, Taiwan, 2021.
- 2019, Invited Keynote Speaker, International Forum of the Annual Symposium of China Graphics Society, China Graphics Society, Shanghai, China.
- 2019, Invited Keynote Speaker, Creative Construction Conference (CCC 2019), Jun. 29~7/2, 2019, Budapest, Hungary.
- 2018, Invited Speaker, College of Mechanic and Material, South East University, Dec. 5th, Beijing, China.
- 2018, Invited Keynote Speaker, College of Civil Engineering, South East University, July 4th, Nanjing, China.
- 2017, Invited Speaker, Department of Civil Engineering, Ben Gurion University of the Negev, Sep. 18, 2017, Beer-Sheva, Israel.
- 2015, Invited Speaker, College of Construction Engineering, Chongqing University, July 2nd, Chongqing, China.
- 2011, Invited Keynote Speaker, International Symposium on Advancement of Construction Management and Real Estate (CRIOCM 2011), Sep. 23~25, 2011, Chongqing, China.
- 2010, Invited Keynote Speaker, International Conference on Value Engineering

(ICVE 2010), Oct. 29, 2010, Taipei, Taiwan.

- 2010, Invited Speaker, Faculty of Architecture, Design, and Urban Planning, July 18, 2010, University of Sydney, Australia.
- 2009, Invited Keynote Speaker, International Symposium on Advancement of Construction Management and Real Estate (CRIOCM 2009), Oct. 29~31, 2009, Nanjing, China.
- 2007, Invited Panel Discussion Speaker, The CME 25 Conference, July 16~18, 2007, University of Reading, Reading, UK.

Publications (著作選列)

Books: (書籍)

1. **Yu, W.D.** *Project Management in Practice*, 3rd Edition, ISBN 978-957-43-0811-8, Archbook, Taipei, Taiwan, 2019.
2. Lin, J.J. and **Yu, W.D.** *Application of Building Information Modelling in the Safety Inspection of Construction Opening*, ISBN 978-986-04-4580-0, Institute of Labor, Occupational Safety and Health, Ministry of Labor, Taipei, Taiwan, 2014.
3. **Yu, W.D.**, Yang, J.B., and Cheng, S.T. ed. *2009 IPMA Best Practice on Project Management*, Taiwan Project Management Association, ISBN:978-986-84115-2-4, 2009.
4. Liou, F.S. and **Yu, W.D.** *Practical English for Construction*, Archbook, ISBN957-97408-3-6, Archbook, Taipei, Taiwan, 1999.

Patents (專利):

1. **Yu, W.D.**, Cheng, S.T., Su, C.K., Liu, Y.F., Wu, C.M. Title: “**Improved planting apparatus (植栽裝置改良)**.” Patent No.: M401980, https://twpat4.tipo.gov.tw/tipotwoc/tipotwecm?!FR_M401980, IPC: A01G-009/12(2006.01), Issued: 2011/04/21.
2. Cheng, S.T., **Yu, W.D.**, Wu, C.M., Lien, W.C., Lo, H.R. Title: “**Construction stake security device (營建樁孔安全防護裝置)**.” Patent No.: M461651, https://twpat4.tipo.gov.tw/tipotwoc/tipotwecm?!FR_M461651, IPC: E02D-017/08(2006.01), Issued: 2013/9/11.
3. **Yu, W.D.**, Yang, J.B., Tseng, J.C.R., Wu, J.W., Wu, R.H., Chou, C.T. Title: “**A proactive knowledge management system, method, and computer program product for use in problem-solving (用於問題解決之主動式知識管理系統、方法及電腦程式產品)**.” Patent No.: I419071, https://twpat-simple.tipo.gov.tw/tipotwoc/tipotwecm?!FR_I419071, IPC: G06Q-

Articles in International Refereed Archival Journals (重要學術期刊論文發表):

1. **余文德**、張憲寬、蔡宛穎，「基於電腦視覺技術之防墜落設施安全狀態辨識模式研究」，*中國土木水利工程學刊*，2021。(EI, Scopus, IF=0.103，已接收 2021/10/18) (MOST 109-2221-E-324-008-MY2)
2. **余文德**、王琨淇、吳獻堂，「以互動式 VR 體驗學習系統輔助工地高危害職安教育之效益評估」，*技術學刊*，2021。(EI, Scopus，已接收 2021/07/07)
3. 廖琬洲、**余文德**、蕭文達、張憲寬、蔡智弓、林楨中，「運用深度學習技術之影像語意分割於施工中電梯直井墜落風險監控的應用」，*技術學刊*，第 36 卷，第一期，pp. 1-12, 2021。(EI, Scopus)
4. **Yu, W. D.**, Liao, H.C., Hsiao, W.T., Chang, H.K., Wu, T.Y., and Lin, C.C. “Real-time Identification of Worker’s Personal Safety Equipment with Hybrid Machine Learning Techniques.” *International Journal of Machine Learning and Computing*, ISSN: 2010-3700, Published by the International Association of Computer Science & Information Technology, 12(3), 79-84. <https://doi:10.18178/ijmlc.2022.12.3.1083> (MOST 108-2221-E-324-005), 2021.
5. **Yu, W.D.**, Chang, H.K., and Lai, C.H., “A knowledge management-based engineering design system for highway design projects.” *International Journal of Applied Science and Engineering*, [https://doi.org/10.6703/IJASE.202106_18\(2\).005](https://doi.org/10.6703/IJASE.202106_18(2).005), 18(2), 2018172, 2021. (Scopus, Q2)
6. **Yu, W.D.**, Chang, H.K., Hsu, Y.Y., Cheng, S.T., and Wang, K.W. “Pretendering Decision Model for Contractor Selection of Public Procurement Projects.” *Journal of Construction Engineering and Management*, ASCE, [https://DOI:10.1061/\(ASCE\)CO.1943-7862.0001923](https://DOI:10.1061/(ASCE)CO.1943-7862.0001923), 146(11), 04020126, 2020. (SCI, EI, Scopus, IF=1.044, Rank=89% (19/174), Q1, Building and Construction)
7. Chang, H.K., **Yu, W.D.**, and Cheng, T.M. “A Quantity-based Method to Predict More Accurate Project Completion Time.” *KSCCE Journal of Civil Engineering*, DOI: <https://doi.org/10.1007/s12205-020-1924-y>, 24(10), 2861-2875, 2020. (SCIE, Scopus, IF=0.484, Rank=58%(130/310), Q2, Civil and Structural Engineering) (MOST 107-2221-E-324-007)
8. 張憲寬、**余文德**，「整合要徑法與作業工率之專案工期預估新模式」，*中國土木水利工程學刊*，[https://DOI:10.6652/JoCICHE.202010_32\(6\).0005](https://DOI:10.6652/JoCICHE.202010_32(6).0005)，第三十二卷，第六期，pp. 519-530，2020。(EI, Scopus, IF=0.103) (MOST 107-2221-E-324-007)
9. **余文德**、張憲寬、王明德、邱奕聖，「台灣 BIM 指南應用成本分配方式之研究」，*中國土木水利工程學刊*，

- [https://DOI:10.6652/JoCICHE.202010_32\(6\).0006](https://DOI:10.6652/JoCICHE.202010_32(6).0006)，第三十二卷，第六期，pp. 531-542，2020。(EI, Scopus) (本論獲得中國土木工程學會 110 年度最佳論文獎)
10. 余文德、廖琬洲、蕭文達、張憲寬、吳定餘、林楨中，「混合式機器學習方法於施工人員個人安全裝備即時辨識之應用」，*技術學刊*，<http://DOI:10.29507/JT>，第 35 卷，第 4 期，pp. 155-165，2020。(EI, Scopus)
 11. **Yu, W.D.**, Cheng, T.M., and Ho, W.C. “A Synergy Approach for Sustainable Construction of Non-urban Land Development.” *БИОСФЕРНАЯ СОВМЕСТИМОСТЬ: ЧЕЛОВЕК, РЕГИОН, ТЕХНОЛОГИИ (Biosphere compatibility: human, region, technologies)*, No. 29, 3-29, <DOI:10.21869/2311-1518-2020-29-1-3-29>, 2020 (included into the List of the Higher Examination Board of the Ministry of Education and Science of Russian Federation for the group of scientific specialties 05.23.00 – Building and architecture: 05.23.04, 05.23.08, 05.23.19, 05.23.21, 05.23.22) (MOST 103-2621-M-216 -004)
 12. **Yu, W. D.**, Ho, W. C., Cheng, S.T., Chang, H.K. “Evaluating the Sustainability of Non-urban Land Development Projects.” *Lecture Notes in Mechanical Engineering*, https://doi.org/10.1007/978-981-15-1910-9_1, pp. 3-19, 2019. (Scopus, IF=0.139)
 13. Chang, H.K., **Yu, W. D.**, and Cheng, T.M. “A New Project Scheduling Control Method based on Activity Quantities.” *Lecture Notes in Mechanical Engineering*, https://doi.org/10.1007/978-981-15-1910-9_21, pp. 253-266, 2019. (Scopus, IF=0.139)
 14. 徐源裕、鄭紹材、余文德、張憲寬、王國武，「以歷史投標資料輔助異質採購決標模式分析之研究」，*技術學刊*，<http://DOI:10.29507/JT>，34(4)，173-185，2019。(EI，Scopus) (MOST 107-2221-E-324-007)
 15. 張憲寬、余文德，「基於數量之時程管控新模式研究」，*技術學刊*，<http://DOI:10.29507/JT>，34(4)，187-201，2019。(EI，Scopus, IF=0.102) (MOST 107-2221-E-324-007)
 16. 余文德、王明德、張逸升、張憲寬，「BIM 應用選擇優先性分析—以台灣 BIM 指南為例」，*中國土木工程學刊*，[http://DOI:10.6652/JoCICHE.201906_31\(4\).0008](http://DOI:10.6652/JoCICHE.201906_31(4).0008)，31(4)，369-386，2019。(EI, Scopus, IF=0.103)
 17. Chang, H.K., **Yu, W.D.**, Cheng, S.T., and Cheng, T.M. “The Use of a Multiple Risk Level Model to Tackle the Duration of Risk for Construction Activity.” *KSCCE Journal of Civil Engineering*, 23(6), <https://doi:10.1007/s12205-019-1757-8>, pp.2397-2408, 2019 (SCIE, Scopus, IF=0.484, Rank=31.6 %, Q2, Civil and Structural Engineering) (MOST 107-2221-E-324-007)
 18. **Yu, W. D.**, Chang, H.K., Cheng, S.T., “A New Method to Tackle the Duration

- Risks of a Construction Project.” *Lecture Notes in Mechanical Engineering*, Issue No. 9783319741222, 2018, https://doi:10.1007/978-3-319-74123-9_27, 255-264. (Scopus, IF=0.139)
19. Wang, K.W., Hsu, Y.Y., **Yu, W.D.**, and Cheng, S.T. “Determination of Project Procurement Method with a Graphical Analytic Model.” *Sustainability*, 10(10), <https://doi:10.3390/su10103583>, 2018 (SCIE, SSCI, Scopus, IF= 2.075, Environmental Sciences:121/242, Q2, 54.9%)
 20. **Yu, W.D.**, Cheng, S.T., Ho, W.C., and Chang, Y.H. “Measuring the Sustainability of Construction Projects throughout Lifecycle: a Taiwan Lesson.” *Sustainability*, 10(5), <https://doi.org/10.3390/su10051523>, 2018 (SCIE, SSCI, Scopus, IF= 2.075, Environmental Sciences:121/242, Q2) (MOST 103-2621-M-216 -004)
 21. Lin, D. J., **Yu, W. D.**, Wu, C. M., and Cheng, T. M. “Correlation between Intellectual Capital and Business Performance of Construction Industry—an Empirical Study in Taiwan,” *International Journal of Construction Management*, 18(3), 232-246, <http://doi.org/10.1080/15623599.2017.1315528>, 2018. (Scopus, IF=0.252, Rank=40%)
 22. 張憲寬、**余文德**、鄭紹材，「基於活動工時風險與系統模擬之專案排程新模式」，*技術學刊*，<http://DOI:10.29507/JT>，第 33 卷，第 1 期，第 1-16 頁，2018。(EI, Scopus)
 23. **余文德**、張憲寬、鄭紹材，「整合即時定位系統與建築資訊模型技術於施工人員墜落風險即時防護模式之研究」，*中國土木水利工程學刊*，<http://DOI:10.6652/JoCICHE>，第 29 卷，第 4 期，第 205–217 頁，2017。(EI, Scopus) (MOST 105-2221-E-216-004-MY2)
 24. **Yu, W. D.**, Cheng, S. T., Miao, C. M., Perng, G. Y. “Green innovation of green roof technology—a case study,” *Material Science and Engineering Technology (Materialwissenschaft und Werkstofftechnik)*, 48(5), 420-429, <https://doi.org/10.1002/mawe.201700015>, 2017. (SCIE, Scopus, JCR: IF=0.524, Rank=260/452; Scopus: IF=0.295, Rank=203/387, 25.5%)
 25. **余文德**、邱垂德、鄭紹材、張欽智、吳誌銘、林楨中，「應用建築資訊模型於鋼筋混凝土建築工地施工開口自動防墜安全檢查之研究」，*中國土木水利工程學刊*，<http://DOI:10.6652/JoCICHE>，第二十八卷，第一期，第 331-343 頁，2016。(EI, Scopus, IF=0.103, Rank=Q4)
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