Airport pavement management systems (APMS) are computer-based decision support systems that assist airport agencies in making decisions on pavement maintenance and rehabilitation (M&R) activities to preserve the various pavement structures such as runways and taxiways in an effective and efficient manner. This talk intends to provide a comprehensive review of the state-of-the-practice and state-of-the-art of APMS development and practical use in the United States and abroad, covering its essential elements including inventory, pavement condition evaluation, performance prediction models, and planning methods. Both project- and network-level pavement management will be discussed, together with brief introduction to associated mathematical and statistical models. The talk will also touch upon issues related to practical activity programming and budgeting, and computer software support.

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Dr. Zou conducts research in the areas of transportation systems analysis, infrastructure management, transportation planning, economics and policy, with special interests in the aviation sector. Dr. Zou has articles published in ASCE Journal of Infrastructure Systems, Transportation Research, Journal of Air Transport Management, and has contributed two book chapters. Dr. Zou is currently a member of a few transportation related research societies, and has been especially active in Transportation Research Board aviation committee activities (AV020, AV040).

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10510 West Zemke Road, Chicago

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