Monte and Usha Ahuja

DISTINGUISHED LECTURE SERIES

ENGINEERING SOCIETAL CHANGE

Reza Abhari

Professor of Energy Technologies, ETH Zurich

Abhari is director of ETH Zurich's Laboratory of Energy Conversion, a multidisciplinary research center. He is a strategic advisor for a number of European, American and Japanese enterprises and is an accomplished researcher. He is a member of the Swiss National Academy of Engineering Sciences, a Fellow of the American Society of Mechanical Engineers. Awards include ASME's R. Tom Sawyer Award, and he was elected as the Christensen Fellow of St Catherine's College, Oxford University in 2010.

FRIDAY
SEPT. 14
3 P.M.
E001 SCOTT LAB

RECEPTION FOLLOWING
4 P.M. E100 SCOTT LAB

Agent-Based Modeling and AI—A Digital Toolkit in an Interconnected World

From communication to transportation to energy, quality of life improvements as well as economic productivity gains are dependent upon the interaction of a system of systems. A 'bottom up' agent-based artificial intelligence framework modeling, Enerpol, allows the analysis of possible future 'what if' scenarios on the scale of continents down to neighborhoods with the intention of mitigating unexpected errors. This seminar will highlight specific Enerpol use cases: gas/electricity nexus, urban planning and real estate development, transportation systems, and safety and security.

The **Monte and Usha Ahuja Distinguished Lecture Series** aims to attract highly accomplished and illustrious individuals, as well as those on their way to national and international renown. In addition to showcasing the work of current experts in the engineering field, this lecture series will inspire Ohio State students to achieve excellence and eminence in their own future careers in government, industry and academia. As honored and highly accomplished graduates of Ohio State, the Ahujas consider their charitable and philanthropic support of the university as an investment in the next generation of science, technology, engineering and mathematics trailblazers.