



2021 IEEE Symposium on Analytics and Risk Successfully Held

From July 6 to July 7, 2021, the 6th IEEE Symposium on Analytics and Risk, and the Forum of “Intelligent Decision Branch, Society of Management Science and Engineering” and “Decision Intelligence Branch, Chinese Society of Technological Economics” were successfully held online. The conference was host by Intelligent Decision Branch, Society of Management Science and Engineering and Decision Intelligence Branch, Chinese Society of Technological Economics; organized by Research Center for Environmental Economics, University of Chinese Academy of Sciences (UCAS), College of Belt & Road (Research Institute), UCAS and School of Economics and Management, UCAS, co-organized by IEEE Systems Council Analytics and Risk Technical Committee and IEEE SMC Technical Committee on Social and Economic Security. The theme of the conference was “Risk perception and intelligent decision in complex social information network”, which attracted more than 170 teachers and students form well-known universities at home and abroad, including the University of Chicago, Massachusetts Institute of Technology, Swiss Finance Institute, Auburn University, University of Minnesota Twin City, University of Glasgow, University of Southern California, University of Cologne, University of Düsseldorf, Nanyang Polytechnic, University of Chinese Academy of Sciences and Beijing Normal University.

The conference was co-chaired by Prof. Desheng Wu, Distinguished Professor of UCAS, Dean of the the B&R College (Research Institute), Elected member of Academia Europaea, and Prof. James Lambert, IEEE Fellow, Professor of University of Virginia, Former Chairman of the American Association for Risk Analysis. Prof. Desheng Wu briefly introduced the development history of the IEEE ARTC and the guests of this conference, and expressed sincere thanks to the leaders and guests at home and abroad for their long-term support.



Prof. Desheng Wu presided over the opening ceremony

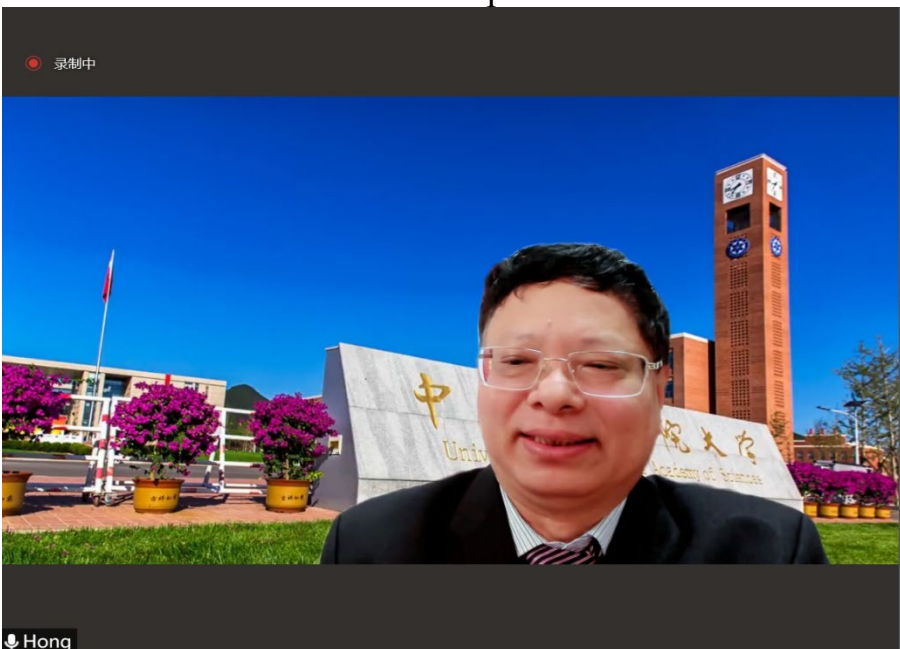
Subsequently, Junshe Dong, Vice President and Executive Deputy Secretary of the Party Committee of UCAS, Prof. Yongmiao Hong, Distinguished Professor of UCAS and Dean of the School of Economics and Management, Prof. Jun Guan, Secretary General of the Management Science and Engineering Society, Professor of Beijing University Of Technology, Prof. James H. Lambert and Prof. Luis Seco delivered speeches in turn, and took a group photo with the participating experts, scholars and students.

On behalf of UCAS, Junshe Dong expressed a cordial welcome to all guests. He briefly introduced the main roles of UCAS and IEEE, and wished everyone would enjoy this academic event.



President Junshe Dong

On behalf of the school of Economics and Management, UCAS, Dean Yongmiao Hong briefly introduced the situation of the School of Economics and Management. He said that the School of Economics and Management is the largest college of UCAS and has passed its twentieth birthday. He hoped that next year the conference can be held on the beautiful campus.





Dean Yongmiao Hong

Jun Guan said that he represented the Society of Management Science and Engineering of China to participate in this conference, and hoped that in the next few days, the integration of research on the ideological and academic achievements of various disciplines can improve the level of communication between everyone.



Prof. Jun Guan

On behalf of University of Virginia, James H. Lambert greeted the guests at the meeting. He mentioned that IEEE has 500 thousand members from 160 countries, and its leadership in technology is obvious to the whole society. He wished the conference a complete success.



James H. Lambert

James H. Lambert

Luis Seco expressed his pleasure to participate in this conference, and looked forward to this opportunity for exchanges and discussions.



LuisSeco

Luis Seco



腾讯会议



Group photo of the guests

After the opening, the keynote speech began. Prof. John R. Birge, John W. and Carol Lee Levin Distinguished Service Professor of Operations Management at Booth School of Business, University of Chicago, Elected Member of the National Academy of Engineering (US), Editor-in-Chief of Operations Research (INFORMS), Prof. Alice E. Smith, Joe W. Forehand/Accenture Distinguished Professor of the Industrial and Systems Engineering Department at Auburn University, Editor-in-Chief of INFORMS Journal on Computing, Area Editor of Computers & Operations Research, Prof. Luis Seco, Professor of Mathematics at University of Toronto, Director of the Mathematical Finance Program and the RiskLab, Prof. Opher Baron, Distinguished Professor of Operations Management and the area coordinator for Operations Management and Statistics at the Rotman School of Management, University of Toronto, Prof. James H. Lambert, Professor of Engineering Systems and Environment, University of Virginia, Prof. Pengfei Guo, Chair Professor of Supply Chain Management of City University of Hong Kong, Prof. Suzanne de Treville, Professor of Operations Management at University



of Lausanne, Co-Editor-in-Chief of Operations Management went online in order, with “The impact of supply chain network structure on risk propagation”, “Decision Science Inspired by Nature”, “Technology Innovation for Socially Responsible Investing”, “Capacity Rationing in Multi-server, Non-preemptive Priority Queues”, “Resilience of Engineering and Enterprise Systems”, “Optimal Queue Length Information Disclosure When Service Quality is Uncertain”, and “Valuing Supply Chain Responsiveness and Resilience”, gave wonderful speeches. The chairman of the conference issued lecture certificates to the speakers to show their gratitude.

After the keynote speech session, three separate forums were held at the same time. In the first sub-forum, Dr. Yingshuai ZHAO from the University of Cologne gave a report on the theme of “Reduce Mismatch Cost or Increase Sales? A Behavioral Study on Demand Shaping Effort”; in the second sub-forum, Dr. Yuxin DU from the University of Southern California brought a report entitled “The Spillover Effect of Interest Rates on Export Volume based on CEEMD Method” to the students; in the third sub-forum, Dr. Jiayu YI from Nanyang Polytechnic gave a report on “The Impacts of Soft Information on Investment Preferences in P2P Online Lending”. In addition, students from the University of Glasgow, the University of Düsseldorf, UCAS, Beijing Normal University and other domestic and foreign universities brought thematic reports in their research fields, and everyone expressed their opinions and carried out lively discussions.

CHICAGO BOOTH

The Impact of Supply Chain Network Structure on Risk Propagation

John R. Birge*

The University of Chicago Booth School of Business

© IIR Birge IIEE Symposium on Analytics and Risk (UCAS July 2021)

John R Birge



My Background



- Auburn University ISE and CSSE
- Worked in telecommunications
- IEEE member since 1989
- Fellow
- CIS Distinguished Lecturer
- Two-time Ad Com member
- Long time AE of *TEVC*
- Current Editor in Chief of *INFORMS Journal on Computing*
- Current Area Editor of *Computers & Operations Research*



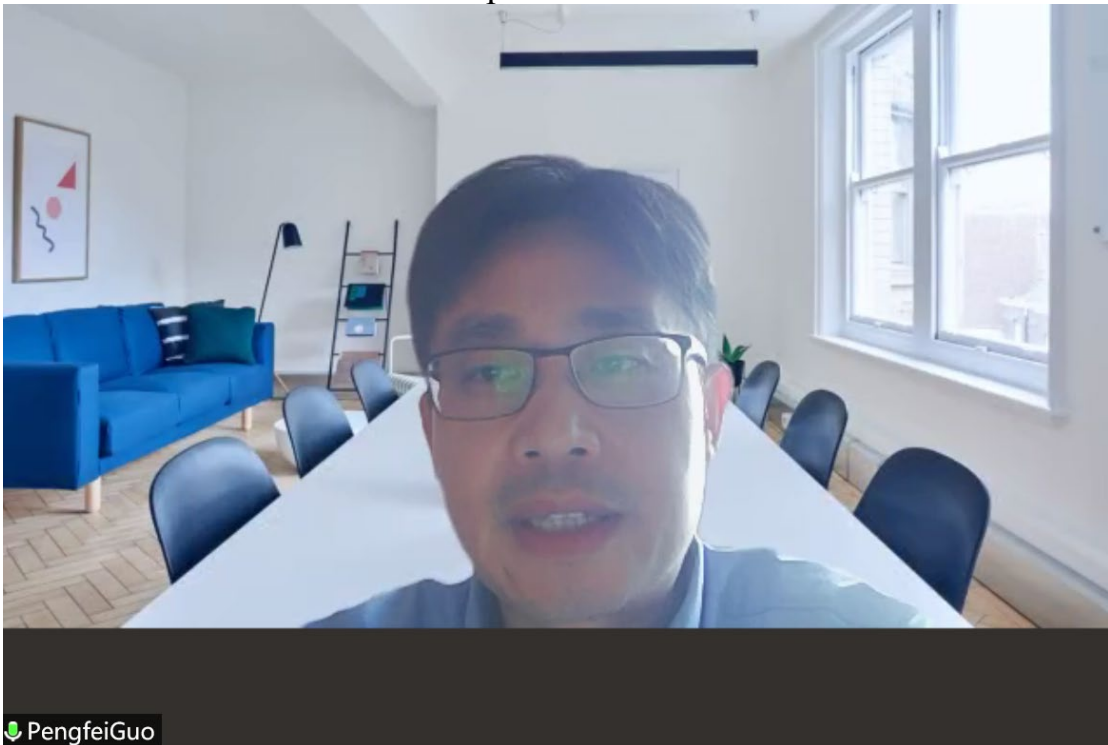
Alice E. Smith



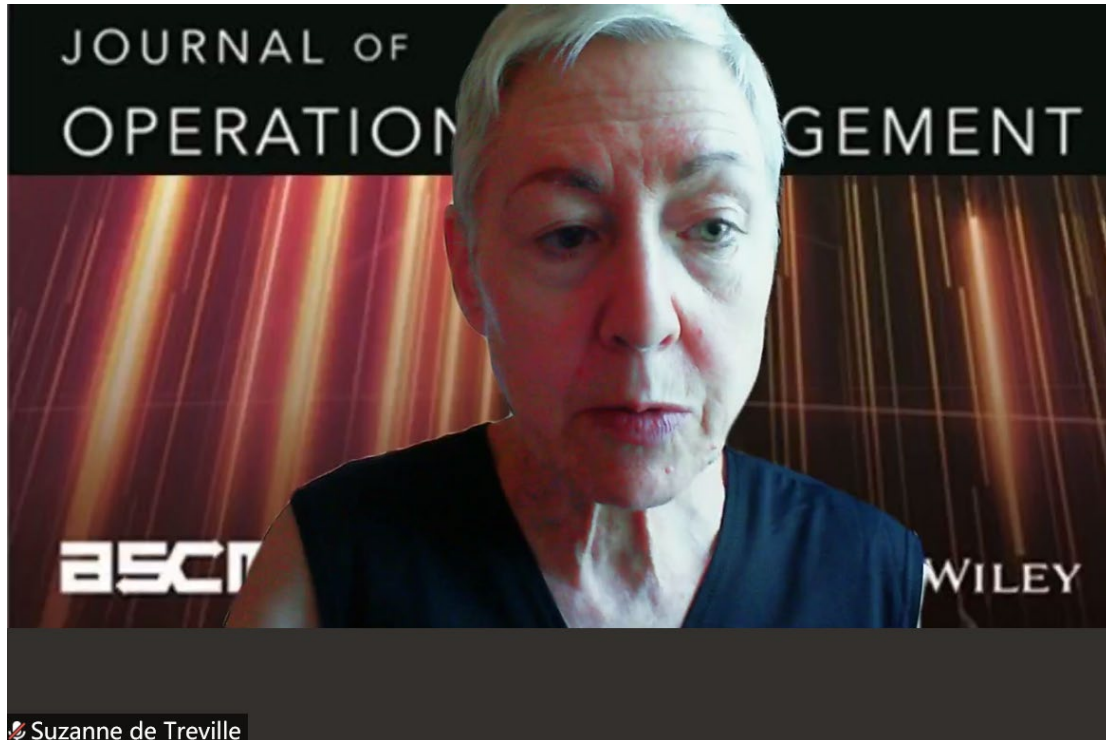
Luis Seco



Opher Baron



Pengfei Guo



Suzanne de Treville

On July 7, the keynote speech was carried out as scheduled. Prof. David Simchi-Levi, Professor of systems engineering and Director of Data Science Lab at Massachusetts Institute of Technology, Editor-in-Chief of Management Science, Prof. Alok Gupta, Senior Associate Dean of Faculty, Research and Administration at the Carlson School of Management, University of Minnesota, Prof. M.I.M Wahab, Professor and Associate Chair of the Industrial Engineering Program at Ryerson University, Prof. LIM Yun Fong, Associate Professor of Operations Management, Lee Kong Chian School of Business, Singapore Management University, Prof. Yulan Amanda WANG, Professor of the Department of Logistics and Maritime Studies, Faculty of Business, Hong Kong Polytechnic University as keynote speakers, gave reports on “Supply chain resiliency and the need for stress tests”, “Future of Work, Working with AI and Human Condition” (ing)”, “Improving supply chain performance under weather risk”, “Optimal Policies and Heuristics to Match Supply with Demand for Online Retailing”, “Exclusive selling or Not Impact on supply chain parties' selling and capability building”. The chairman of the conference issued lecture certificates to the speakers to show their gratitude.




David Simchi-Levi

Future of Work, Working with AI and Human Condition(ing)

Alok Gupta
EIC, *Information Systems Research*
Senior Associate Dean of Faculty, Research and Administration
Carlson School of Management

Largely Based on Joint Work with:
Andreas Fügener, Jörn Grahl and Wolf Ketter, University of Cologne

DISCOVER SOMETHING GREAT



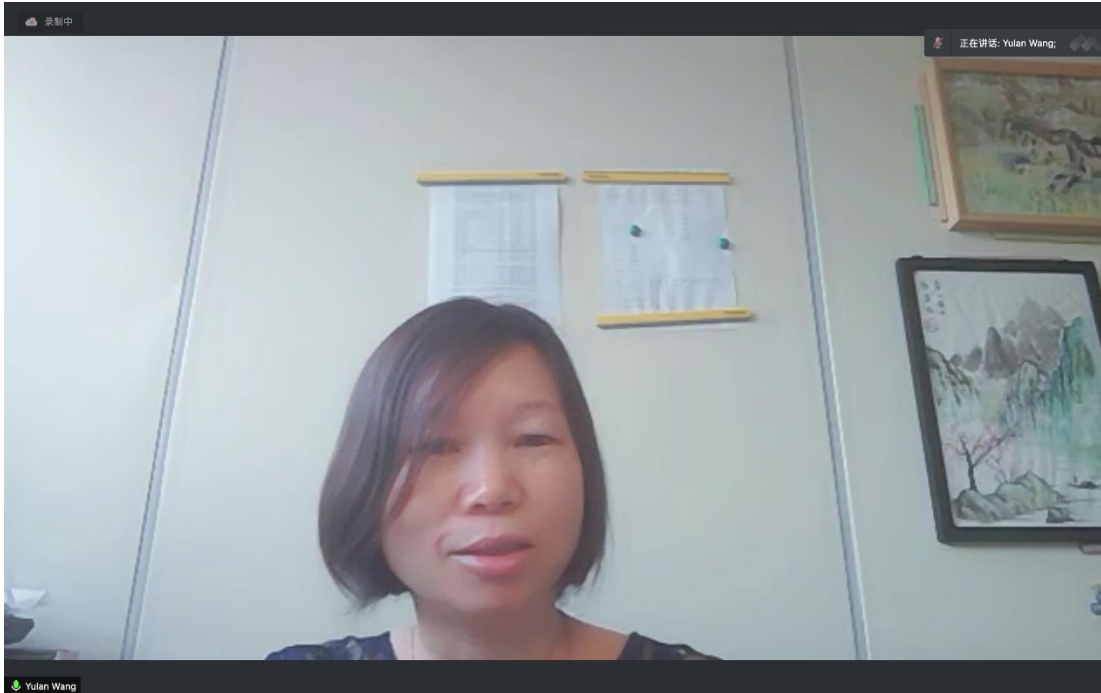
Alok Gupta



M.I.M Wahab



LIM Yun Fong



Yulan Amanda WANG

After the speech, the chairman of the conference issued certificates to the winners of the Best Paper Award and the Best Student Paper Award and congratulated them on their wonderful presentation in this conference.

Finally, Desheng Wu made a closing summary for the conference. He said that the content of this conference is substantial and the themes are rich. The experts conducted full exchanges and lively discussions on multiple international hot topics such as supply chain security, the future development of artificial intelligence, and risk-based intelligent decision-making. Afterwards, Professor James H. Lambert and Professor M.I.M Wahab also summarized the conference in the end. They expressed their great honor to witness this IEEE academic event, and thanked scholars from various countries for their wonderful reports. The conference provided a platform for scholars and research teams from all over the world to communicate with each other, and played a role in promoting the research on risk intelligence and decision-making in the financial economics and mathematical finance.