

# Call for Papers

## 2021 International Conference on Advanced Vehicle Powertrains

September 2-4, 2021, Beijing, China ([www.icavp2021.org/](http://www.icavp2021.org/))



The 2021 International Conference on Advanced Vehicle Powertrains (ICAVP2021) is aiming to bring together industry and academic experts in the fields of vehicle powertrains and automation. The format will be both in-person and virtual (i.e., online). The event will open up presentations and discussions on the solutions to both latest and future challenges among the development of the following frontiers, but not limited to:

### Organization

#### Conference Honor Chair

Prof. Jun Li, Academician CAE, Tsinghua University

#### Conference Chair

Prof. Xiangyang Xu, Beihang University, China

#### Conference Co-Chair

Prof. Nong Zhang, Hefei U. of Technology, China

Prof. MK Ebrahimi, Loughborough U., UK

#### Program Chair

Prof. Amir Khajepour, U. of Waterloo, Canada

#### Program Co-Chair

Prof. Shuhan Wang, Beihang University, China

Prof. R. G. Prucka, Clemson University, USA

### Organizing Committee

#### Organizing Committee Chair

Prof. Hui Zhang, Beihang University, China

Dr. M. Mohammad-Pour, Loughborough U., UK

Prof. M. Shahbakhti, University of Alberta, Canada

Prof. Christos Spitas, Nazarbayev U., Kazakhstan

#### Organizing Committee Member

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Prof. Cacciato, U. degli Studi di Catania, Italy

Prof. Xiaosong Hu, Chongqing University, China

Prof. Chen Lv, Nanyang Tech. U., Singapore

Prof. Guoming Zhu, Michigan State U., USA

Prof. Yanfang Liu, Beihang University, China

Prof. Peng Dong, Beihang University, China

Prof. J. Deur, University of Zagreb, Croatia

### Scientific Advisory Committee

#### Advisory Committee Chair

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Prof. Liang Li, Tsinghua University, China

Prof. Tong Zhang, Tongji University, China

Prof. Yulong Lei, Jilin University, China

Dr. C. S. Kim, Korea Inst. of Energy Research

Prof. Xiaoli Yu, Zhejiang University, China

Prof. Timothy J. Jacobs, Texas A&M U., USA

Prof. Ali Emadi, McMaster University, Canada

Prof. Zoran Filipi, Clemson University, USA

Prof. Dong Guo, Chongqing U. of Tech., China

Prof. Tiancai Ma, Tongji University, China

Prof. Hui Xie, Tianjin University, China

Prof. Daofei Li, Zhejiang University, China

Prof. Yonggang Liu, Chongqing University, China

### Advanced Vehicle Powertrains

- Advanced engines/transmissions/drivelines
- Energy management strategies for multi-modes of propulsion
- Innovative energy efficient technologies
- Innovative materials and lightweight design
- Innovative lubrication
- Powertrain integration/control/optimization/diagnosis
- Networked systems
- Software development for powertrain control, real-time simulation
- Experimental investigations, model validation
- Components and powertrain-in-the-loop techniques
- Advanced techniques in emission & GHG reductions
- Analysis/assessment of impact on energy utilization and environment

### New Energy Vehicular Technology

- Dedicated hybrid transmission (DHT)
- Dedicated hybrid engine (DHE)
- Advanced propulsion systems
- Electric drivetrain/motors/components
- Charging technology & infrastructure
- Powertrain electronics
- Thermal management system for NEV
- Electric transportation systems
- Diagnostics & Prognostics
- Application of AI methodology
- EV safety design & technology

### Vehicular Motive Powers

- Alternative low carbon fuels
- Power battery and BMS
- Proton-exchange membrane fuel cell (PEMFC)
- Solid oxide fuel cell (SOFC)
- Catalysts for fuel cells
- Membrane Electrode Assembly (MEA)
- BOPs for PEMFC
- Motive power safety technology

**ICAVP2021** invites full papers describing original and yet unpublished work. All papers must include title, complete contact information for all authors, abstract, and keywords on the cover page. Research papers reporting on new development of powertrains for conventional, hybrid and electric vehicles, while industry and development papers reporting on actual developments of technology, products, systems and solutions. In addition, ICAVP will invite keynotes, organize workshop and panels. Best papers will be selected for award. Conference participants will have a specially discounted personal online subscription to IJPT. Authors with the best paper award will receive a free personal online subscription to the journal (for one year).

**Paper Submission:** Papers must be submitted in PDF format. Detailed submission instructions refer to the conference website ([www.icavp2021.org/](http://www.icavp2021.org/)). Direct your questions to Program Chairs: Prof. Khajepour ([akhajepo@uwaterloo.ca](mailto:akhajepo@uwaterloo.ca)) and Conference Chair Prof. Xu ([xxy@buaa.edu.cn](mailto:xxy@buaa.edu.cn)). All quality papers will be recommended to IJPT for further publishing.

### KEY DATES

**Paper Registration**

June 15, 2021

**Abstract Submission**

June 30, 2021

**Paper Submission**

July 15, 2021

**Notification**

July 30, 2021

Organizer:



Collaborator:



Int. J. of Powertrains

