## **PAPER • OPEN ACCESS**

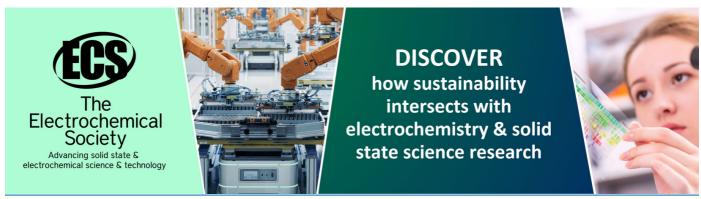
# **Preface**

To cite this article: 2021 J. Phys.: Conf. Ser. 2002 011001

View the <u>article online</u> for updates and enhancements.

# You may also like

- Time-of-flight PET image reconstruction using origin ensembles
  Christian Wülker, Arkadiusz Sitek and Sven Prevrhal
- Perturbative construction of mean-field equations in extensive-rank matrix factorization and denoising Antoine Maillard, Florent Krzakala, Marc Mézard et al.
- A model-based regularized inverse method for ultrasonic B-scan image reconstruction Haiteng Wu, Jian Chen, Shiwei Wu et al.



**2002** (2021) 011001

Journal of Physics: Conference Series

doi:10.1088/1742-6596/2002/1/011001

# **Preface**

The 7<sup>th</sup> International Conference on Advances in Machinery, Material Science and Engineering Application (MMSE 2021) is organized by the China University of Geosciences (Wuhan) and the Supmeca/Paris School of Mechanical and Manufacturing Engineering, co-organized by the Henan Polytechnic University and the National University of Singapore, which is planned to be held in Hangzhou, China. However, due to current situation of COVID-19 in China, it is still difficult to take international travel for the attendees abroad. For the sake of protecting all the participants and conference staff from the current situation, the MMSE 2021 is changed to be held virtually through Zoom on July 24-25th 2021.

More than 85 participants from academic, high-education institutes and other organizations attend this online conference from home and abroad, such as Prof. E. Bayraktar from the Supmeca/Paris School of Mechanical and Manufacturing Engineering (France), Prof. Rezia Maria Molfino from the University of Genova (Italy), Prof. Mark J. Jackson from the Kansas State University (USA), Prof. Yiwei Dong from the Xiamen University (China) and Prof. Ahm Shamsuzzoha from the University of Vaasa (Finland). The conference program is divided into 4 parts: opening ceremony, keynote speech, oral presentation and poster presentation. Professor E. Bayraktar, as the host of the conference will lead the opening ceremony. Then, Professor Seeram Ramakrishna, the top 1% Highly Cited Researchers in materials science and cross-field categories, delivers his keynote speech with the title of "Reimagine Materials to Deal with the Existential Threats to the Humanity", lasting for 35 minutes. Then, professor Qiang Xu from the University of Huddersfield, UK, gives his keynote presentation with title "Modelling of Creep Rupture". 24 oral presentations are arranged in turn and each one lasts for 15 minutes with Q&A followed. And 36 poster presentations are displayed.

This year, MMSE has attracted 165 papers, 78 are accepted by our reviewers and editors after the peer review process, covering topics from mechanical engineering to mechatronics systems, material science, automation and control engineering, applied physics and engineering technologies.

Sincerest appreciation goes to the conference chairs, all members of conference committees, the keynote speakers, as well as all the participants for their support to MMSE. Many thanks go to the publisher--IOP Publishing for their work and support on publishing the proceedings. Finally, I sincerely hope that MMSE 2021 will be a forum for excellent discussions that will put forward new ideas and promote collaborative research in the future.

Prof. Seeram Ramakrishna Conference Chair National University of Singapore, Singapore

July 24, 2021

Content from this work may be used under the terms of the Creative Commons Attribution 3.0 licence. Any further distribution of this work must maintain attribution to the author(s) and the title of the work, journal citation and DOI.

Journal of Physics: Conference Series

**2002** (2021) 011001

doi:10.1088/1742-6596/2002/1/011001

#### **Conference Chairs**

Prof. Seeram Ramakrishna, National University of Singapore, Singapore

Prof. Alexander M. Korsunsky, University of Oxford, UK

#### **Co-Chairs**

Prof. E. Bayraktar, Supmeca/Paris School of Mechanical and Manufacturing Engineering, France

Prof. Rezia Maria Molfino, University of Genova, President of SIRI (Italian Association of Robotics and Automation), Italy

Prof. Mark J. Jackson, Kansas State University, USA

### **Publication Editors**

Prof. Qiang Xu, University of Hudersfield, UK

Prof. GIORGETTI Marco, University of Bologna, Italy

Prof. Yiwei Dong, Xiamen University, China

Prof. Guosong Wu, Hohai University, China

Prof. Chi-Hua Chen, Fuzhou University, China

### **International Committee Members**

Prof. PASQUALE ARPAIA, University of Napoli Federico II, Italy

Prof. UKOssama Abdelkhalik, Iowa State University, USA

Prof. Amir Kordijazi, University of Wisconsin Milwaukee, USA

Prof. Mark Burgin, UCLA, USA

Prof. Jing-jiang Yu, Agilent Technologies, Inc., USA

Prof. X.S. Zhang, Claremont Graduate University, USA

Prof. Vivek Sharma, Intel Corporation, USA

Prof. Guoxiang Liu, University of North Dakota, US

Prof. Kamran Iqbal, University of Arkansas at Little Rock, USA

Prof. Rajkeshar Singh, General Electric, Global Research, USA

Dr. Houpu Yao, Arizona State University, USA

Prof. Kim, Ho Chul, Korea Advanced Institute of Science & Technology, Korea

Prof. Diaa El-Rahman Ahmed RAYAN MELEGY, Central Metallurgical Research and

Development Institute (CMRDI), Egypt

Dr. Basel AL-Muallim, Universiti Malaysia Pahang, Malaysia

Prof. Heba Al-Kelesh, Central Metallurgical Research and Development Institute, EG

Prof. Y. Jin, Jilin University, China

Prof. P. Wang, Shandong Huayu University of Technology, China

Prof. N.S. Pang, North China Electric Power University, China

Prof. D.P. Wei, Shandong Huayu University of Technology, China

Prof. Z. Quan, University of Science and Technology of China, China

Prof. Vit ória, Polytechnic Institute of Set úbal, PT

Prof. G.A. Xu, Beijing University of Posts and Telecommunications, China

Prof. B. Y.F. Li, Shandong Huayu University of Technology, China

Prof. Iyad Al-Attar, Cranfield University, KW

Journal of Physics: Conference Series

2002 (2021) 011001

doi:10.1088/1742-6596/2002/1/011001

HOD, Prof. H.S.Mohana, Malnad College of Engineering, India

Prof. Suboohi Shervani, Memorial University of Newfoundland, CA

Dr. D. Liao, Conco rdia University, Canada

Prof. Kung Chih-hsien, Chang-Jung Christian University, Taiwan, China

Prof. Teodor Lucian Grigorie, University of Craiova, Romania

Dr. K.S. Cheung, University of Hong Kong, Hong Kong

Prof.Jose Alberto Duarte Moller, La Salle University of Baj ó, MX

Prof.Sahar Kooshki, Yazd University, IR

Prof.Oluwafemi Ogundahunsi, First Technical University, Ibadan, Nigeria, NG

Prof. Shishir K.Shandilya, Rukmani Devi Institute of Science and Technology, India

Dr. B. Moulton, University of Sydney Technology, Australia

Prof. Newaz Mohammed Bahadur, Noakhali Science and Technology University, BD

Prof. G.Selvakumar, School of Electrical Sciences, V.M.K.V. Engineering College, India

Prof. Bandar Almangour, Saudi Basic Industries Corporation (SABIC), SA

Prof. Arpitha G R, Presidency University, India

Prof. S. S. Keshavrao, Bharati Vidyapeeth College of Engineering, India

Prof.Cecil Coutinho, University of South Florida, USA

Prof. Victor Mucino, West Virginia University, USA

Prof. N. K. Nehra, SMVD University, India

Prof. Mandhapati Raju, General Motors, US

Prof. Pejman Akbari, California State Polytechnic University, Pomona, CA, USA

Prof. Emmanuel Sangotayo, Ladoke Akintola University of Technology, Ogbomoso, NG

Prof. Reza Miresmaeili, Tarbiat Modares University, Irwansha

Prof. Przemyslaw Falkowski-Gilski, Gdansk University of Technology, POLAND