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INTERNATIONAL JOINT CONFERENCE ON MATERIALS, MANUFACTURING TECHNOLOGY AND SIMULATION 2021 (IJCAMTS2021)

 INTERNATIONAL JOINT CONFERENCE ON MATERIALS & MANUFACTURING
TECHNOLOGY & SIMULATION

IJCAMTS
Conference date and time: 9th March 2021 | 10AM – 6:30PM

Link to session room: <https://bit.ly/38bWuwr>
Technical Person-in-Charge: Ahmad Effendi Rijalludin
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PROGRAM

Chairpersons:

 Ir. Dr. Noor Azlina Mohd Salleh (noorazlinamohdsalleh@uitm.edu.my)

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 Mohd Saufy Rohmad (saufy@uitm.edu.my)

10:00 am – 10:20 am	Elastoplastic Finite Element Simulation of Rotary Forging Process for an Assembling Hub Bearing Unit with an Emphasis on Residual Stress <u>J. D. Yoo</u> , H. K. Moon, W. J. Chung, M. S. Joun <i>ERI, School of Mechanical and Aerospace Engineering, Gyeongsang National University, Gyeongnam, Jinju, Republic of Korea</i>
10:20 am – 10:40 am	Validation of VCCT-Based Crack Growth Behaviour of S960 Steel using Three-Dimensional Finite Element Method <u>Y. O. Busari</u> , Y. H.P. Manurung, Azfar R. M. Rafee, Muhd Faiz Mat <i>Smart Manufacturing Research Institute, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia</i>

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10:40 am – 11:00 am	<p>Three-dimensional elastothermoviscoplastic finite element method using MINI-tetrahedral elements <u>W. J. Chung</u>, S. H. Chung, M. S. Joun <i>ERI, School of Mechanical and Aerospace Engineering, Gyeongsang National University, Gyeongnam, Jinju, Republic of Korea</i></p>
11:00 am – 11:20 am	<p>Cases of Multi-Body Mechanics in Metal Forming M. S. Joun, S. H. Chung, M. C. Lee, J. G. Eom, W. J. Chung <i>ERI, School of Mechanical and Aerospace Engineering, Gyeongsang National University, Gyeongnam, Jinju, Republic of Korea</i></p>
11:30 am – 11:50 am	<p>Texture Formation Model for End Milling Surface <u>Mohd Fauzi Ismail</u>, Fatiha Naziera Yusof and Rizal Mohamed Noor <i>Faculty of Mechanical Engineering, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia</i></p>
11:50 am – 12:10 pm	<p>A Review on Flow Stress Characterization of Metals at Room Temperatures <u>C. W. Jee</u>, M. K. Razali, H. J. Lee, J. B. Byun, M. S. Joun <i>ERI, School of Mechanical and Aerospace Engineering, Gyeongsang National University, Gyeongnam, Jinju, Republic of Korea</i></p>
12:10 pm – 12:30 pm	<p>Firefly Algorithm in Optimization of Milling Machining Parameters and its Comparisons with Other Algorithms <u>Farhan Md Jasni</u>, Ahmad Faiz Zubair, Pramodkumar Kataraki, Ayub Janvekar, Aulia Ishak, Rizal Mohamed Noor <i>Universiti Teknologi MARA, Cawangan Pulau Pinang, Permatang Pauh, Pulau Pinang, Malaysia</i></p>
12:30 pm – 12:50 pm	<p>Hot Working Conditions of Aluminum Alloys at Elevated Temperature: A Review <u>J. H. Park</u>, M. K. Razali, J. D. Yoo, M. C. Kim, M. S. Joun <i>ERI, School of Mechanical and Aerospace Engineering, Gyeongsang National University, Gyeongnam, Jinju, Republic of Korea</i></p>

02:00 pm – 02:20 pm	<p>A Numerical Study on Gas Standpipe Separator <u>Muhamad Nazmi Bin Mohamad Tarmizi</u>, Khairul Imran Sainan, MAA Ghani, Norhisyam Jenal, Firdaus Mohamad, <i>Faculty of Mechanical Engineering, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia</i></p>
02:20 pm – 02:40 pm	<p>Finite element simulation of single and twin point clinching processes for their validation and process optimal design <u>R. Sekar</u>, D. W. Lee, C. J. Lee, M. S. Joun <i>ERI, School of Mechanical and Aerospace Engineering, Gyeongsang National University, Gyeongnam, Jinju, Republic of Korea</i></p>
02:40 pm – 03:00 pm	<p>Simulation Analysis of Fire Spread of Road and Railway Tunnel in Malaysia <u>RR Krishnamoorthya</u>, NAMF Ng <i>Smart Manufacturing Research Institute, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia</i></p>
03:00 pm – 03:20 pm	<p>Influence of Treatment Temperature towards the S Phase Layer Formation on Medical Grade ASTM F138 Stainless Steel <u>Mohammad Firdaus Mohammed Azmi</u>, Juri Saedon, Mohd Shahrizan Adenan, , Esa Haruman, Animesh Basak <i>Faculty of Mechanical Engineering, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia</i></p>
03:30 pm – 03:50 pm	<p>Development of Monozukuri Machine for Spreading Fabric <u>Noor Azlina Mohd Salleh</u>, Asyraf Azizi bin Mohd Safri, Azianti Ismail <i>Smart Manufacturing Research Institute, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia</i></p>
03:50 pm – 04:10 pm	<p>Surface Characterization of Porous Ti-6Al-4V Dental Implant by Metal Injection Molding with Palm Stearin Binder System <u>N. H. Mohamad Nor</u>, M. H. Ismail, M. Newishy, and J.B. Saedon <i>Faculty of Mechanical Engineering, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia</i></p>

04:10 pm – 04:30 pm	<p>Analysis of Plastic Injection Molding Process to Study Warpage and Flash Defects <u>Kausalyah V.</u>, Norfiza Athyrah B.M.F., Shasthri S.,N.R.N.Roselina, K.A.Abdullah <i>Faculty of Mechanical Engineering, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia</i></p>
04:30 pm – 04:50 pm	<p>Comparative Analysis of Distortion Behaviour of Numerical WAAM Simulation using Thermomechanical and Inherent Strain Method <u>Keval P Prajadhiana</u>, Yupiter HP Manurung, Siti Nursyahirah Ahmad, Mohd Shahrman Adenan <i>Smart Manufacturing Research Institute, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia</i></p>
05:00 pm – 05:20 pm	<p>Generative Design Approach as An Advanced Tool for Numerical Computation and Additive Manufacturing Process <u>Nur Arisya Syakira Romzi</u>, Thoufeili Taufek, Yupiter HP Manurung and Mohd Shahrman Adenan <i>Smart Manufacturing Research Institute, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia</i></p>
05:20 pm – 05:40 pm	<p>Analytical Estimation of Wire-Arc Additive Manufacturing (WAAM) SS316L component: Tensile and Fatigue <u>Muhd Faiz Mat</u>, Yupiter H. P. Manurung, Nor Asiah Muhammad, Yusuf Olanrewaju Busari, Siti Nursyahirah Ahmad, Marcel Graf <i>Smart Manufacturing Research Institute, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia</i></p>
05:40 pm – 06:00 pm	<p>Modelling and Mesh Sensitivity Analysis of NC Machining for WAAM Component using Numerical Computation <u>Keval Priapatama Prajadhiana</u>, Yupiter HP Manurung <i>Smart Manufacturing Research Institute, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia</i></p>