

International Conference Day 2 - 21st July 2023, Friday

12:30-14:00

International Conference Reception/Lunch
Orchid Main Ballroom 4204-6 & 4304-6

Session 3

	(11) Advanced Arc Welding or other welding processes	(17) Corrosion of Welded Joints	(8) Additive Manufacturing - Power Bed 3D Printing	(6) Additive Manufacturing - Wire Arc Additive Manufacturing	(14) Design, Analysis and Fabrication of Welded Structure	Symposium on IWM
	Orchid Main Ballroom 4202	Orchid Main Ballroom 4302	Orchid Main Ballroom 4301AB	Orchid Main Ballroom 4201AB	Orchid Main Ballroom 4303	Orchid Main Ballroom 4203
	Session Chair: Dr Yongjing Yang Session Co-chair: Mr Reddy	Session Chair: Mr Yusooif Session Co-chair: Mr William Chong	Session Chair: Mr Simon Wang Session Co-chair: Mr Samuel Lye	Session Chair: Dr Yongchao Yu Session Co-chair: Mr Subbiah Krishnan	Session Chair: Dr John Pang Session Co-chair: Mr Hooi Yu Koh	Session Chair: Zhifen Zhang Session Co-chair: Jun Xiang
14:00-15:00	1400 HRS TO 1415 HRS Effect of Welding Condition on Porosity in Plasma-MIG Hybrid Welds of Al-Mg alloy OR-11-0214 Dr Lee Hee-keun Research Institute of Medium & Small Shipbuilding	1400 HRS TO 1415 HRS Effect of Laser Welding Heat-Input on Repassivation Characteristics during Pitting Corrosion Testing on 316L Orthopedic Cerclage-Wire OR-17-0161 Eakkachai Warinsiriuk Mahidol University	1400 HRS TO 1420 HRS Invited (20mins) Robust AM Process Development for High Performance Material and its Industrialization OR-08-0312 Dr Youping Gao Castheon Inc	1400 HRS TO 1415 HRS Wire and arc additive manufacturing high strength aluminum alloy OR-06-0291 Xuewei Fang Xi'an Jiaotong University	1400 HRS TO 1415 HRS Welding deformation law of complex variable section inclined strut structure OR-14-0335 Fei-bin Zhang Department of Mechanical Engineering, Tsinghua University	1400 HRS TO 1415 HRS Optimization of mild steel MIG welding penetration depth via reinforcement learning using stochastic policy optimization (SPO) OR-12-0341 Giulio Mattera University of Naples Federico II, Italy
	1415 HRS TO 1430 HRS Improving Microstructure and Mechanical Properties of TIG Welds in Inconel 718 Super-alloy via Ultrasonic Pulse Current OR-11-0241 Dr Yajie Wang Shanghai Jiao Tong University	1415 HRS TO 1430 HRS Intergranular corrosion in Alloy 617 accelerated crept specimen by using electrochemical technique OR-17-0077 Noppakorn Phuraya Mahidol University	1420 HRS TO 1435 HRS Pathways towards building Computationally Efficient Heat Transfer Models for Laser Powder Bed Fusion OR-08-0221 Ms Neelima Patnaikuni IIT Bombay	1415 HRS TO 1430 HRS TiC-particle reinforced Al-Cu alloy fabricated via wire + ultrasonic-frequency pulsed arc additive manufacturing OR-06-0232 Dr Caiyou Zeng Beihang University	1415 HRS TO 1430 HRS The Need to Develop Standards for Weld Testing Facilities. OR-14-0324 Bright Ikechi .C. Igwe Department of Welding Engineering and Offshore Technology/Petroleum Training Institute	1415 HRS TO 1430 HRS Study of the influence of Al element on the arc and molten pool behavior during flux bands constricting arc welding (FBCA) process Jisen Qiao Lanzhou University of Technology
	1430 HRS TO 1445 HRS Characterization of microstructures in welded joints of steel pipes produced by high frequency induction welding Yongjing Yang NTU		1435 HRS TO 1450 HRS Role of microstructural phases and surface modification in enhanced mechanical properties of additively manufactured IN718 alloy OR-08-0006 Sumit Choudhary IIT Roorkee	1430 HRS TO 1445 HRS Manipulating molten pool in in-situ additive manufacturing of Ti2AlNb through alternating dual-electron beams OR-06-0354 Zixiang Li Tsinghua University		1430 HRS TO 1445 HRS Strategies against the shortage of skilled welders OR-12-0121 Aimee Schmelzer Artwelding GmbH /SVS Swiss Welding Association, Switzerland
	1445 HRS TO 1500 HRS Weld Repair of Crack-Prone Cast Superalloy Blades with Induction Preheating OR-11-0031 Dr Vamadevan Gowreesan Sulzwe Turbo Services					1445 HRS TO 1500 HRS An adaptive welding method for grooves with position and size errors OR-12-0343 Wenkai Wang Lanzhou University of Technology

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15:00-15:30

Tea Break @ Melati Room

Session 4

Symposium on IWM

Orchid Main Ballroom 4202

Orchid Main Ballroom 4302

Orchid Main Ballroom 4301AB

Orchid Main Ballroom 4201AB

Orchid Main Ballroom 4303

Orchid Main Ballroom 4203

Session Chair: YuMing Zhang
Session Co-chair: Aprilia

1530 HRS TO 1545 HRS

Optimization of welding parameters based on weld bead geometry in gas metal arc welding using a 1.0-mm-diameter wire
OR-12-0159
SolMi Lee
Korea Institute of Industrial Technology

1545 HRS TO 1600 HRS

Data Driven and Machine Learning based Design Framework for Self-Piercing Riveting Process
Li Huang
Nanjing Tech University

1600 HRS TO 1615 HRS

A Comprehensive Review of Deep Learning for Predicting Remaining Fatigue-Corrosion life of TIG-dressed Welded Joints
Badr EL Hajouji
Hassan The First University of Settat, Morocco

1615 HRS TO 1630 HRS

Weld Scoring Model for Virtual Welding Training System
OR-12-0154
Zhou Zeli
University of Tokyo

1630 HRS TO 1645 HRS

A Study on Machine Learning Algorithm Comparison for the Performance Evaluation of Manual Welding Process
OR-12-0162
Chang-Sub Song
RIMS

15:30-17:00