Visual-JW 2022
& DEJI²MA-2

25-26 October 2022
Senri Life Science Center, Osaka, Japan

The 6th International Symposium
on Visualization in Joining & Welding Science through
Advanced Measurements and Simulation

&

The 2nd International Symposium
on Design and Engineering by Joint Inverse
Innovation for Materials Architecture (DEJI²MA-2)

in conjunction with

Symposium on the Research Activities of
Joint Usage/Research Center on Joining and Welding

Organized by *Joining and Welding Research Institute, Osaka University*
Co-organized by *Japan Welding Society*

AGENDA

25th Octorber 2022

Room A					
Opening Ceremony					
09:50-10:00	Greeting				
Plenary Session					
10:00-10:30	PL-01-L				
10:30-11:00	PL-02-L				
11:00-11:30	PL-03-L				
11:30-13:00	Lunch				
Room A		Room B		Room C	
Joining Mechanics and Analyses 1		**Welding Mechanism 1**		**Design & Engineering by Joint Inverse Innovation for Materials Architecture (DEJI^{2}MA)**	
13:00-13:20	JMA-01-L	13:00-13:20	WM-01-L	13:00-13:20	DEJI^{2}MA-01-L
13:20-13:35	JMA-02-O	13:20-13:35	WM-02-O	13:20-13:40	DEJI^{2}MA-02-L
13:35-13:50	JMA-03-O	13:35-13:50	WM-03-O	13:40-14:00	DEJI^{2}MA-03-L
13:50-14:05	JMA-04-O	13:50-14:05	WM-04-O	14:00-14:20	DEJI^{2}MA-04-L
14:05-14:20	JMA-05-O	14:05-14:20	WM-05-O	14:20-14:40	DEJI^{2}MA-05-L
14:20-14:35		14:20-14:35	WM-06-O	14:40-15:00	DEJI^{2}MA-06-L
14:30-14:50		14:35-14:50			
14:50-15:10	Coffee Break			15:00-15:20	Coffee Break
Joining Mechanics and Analyses 2		**Welding Mechanism 2**		**Design & Engineering by Joint Inverse Innovation for Materials Architecture (DEJI^{2}MA)**	
15:10-15:25	JMA-06-O	15:10-15:25	WM-07-O	15:20-15:40	DEJI^{2}MA-07-L
15:25-15:40	JMA-07-O	15:25-15:40	WM-08-O	15:40-16:00	DEJI^{2}MA-08-L
15:40-15:55	JMA-08-O	15:40-15:55	WM-09-O	16:00-16:20	DEJI^{2}MA-09-L
15:55-16:10	JMA-09-O	15:55-16:10	WM-10-O	16:20-16:40	DEJI^{2}MA-10-L
16:10-16:25	JMA-10-O	16:10-16:25	WM-11-O	16:40-17:00	DEJI^{2}MA-11-L
16:25-16:40	JMA-11-O	16:25-16:40	WM-12-O	17:00-17:20	DEJI^{2}MA-12-L
16:40-16:55	JMA-12-O	16:40-16:55			
16:55-17:15	Coffee Break			17:20-17:30	Coffee Break
Micro Joining		**Composite Material & Joint Interface**		**Poster Session (DEJI^{2}MA)**	
17:15-17:35	MJ-01-L	17:15-17:35	CJ-01-L	Room P 17:30-18:30 P-DEJI^{2}MA-01-44	
17:35-17:50	MJ-02-O	17:35-17:50	CJ-02-O		
17:50-18:05	MJ-03-O	17:50-18:05	CJ-03-O		
18:05-18:20	MJ-04-O	18:05-18:20	CJ-04-O		
Break					
Banquet at Senri Hankyu Hotel 19:00-21:00					

26th Octorber 2022					
Room A		Room B		Room C	
Additive Manufacturing 1		**Joining Metallurgical Evaluation**		**The Research Activities of Joint Usage / Research Center on Joining and Welding**	
09:00-09:20	AM-01-L	09:00-09:20	JME-01-L	09:00-09:20	RAJU-01-L
09:20-09:35	AM-02-O	09:20-09:35	JME-02-O	09:20-09:40	RAJU-02-L
09:35-09:50	AM-03-O	09:35-09:50	JME-03-O	09:40-10:00	RAJU-03-L
09:50-10:05	AM-04-O	09:50-10:05	JME-04-O	10:00-10:20	RAJU-04-L
10:05-10:20	AM-05-O	10:05-10:20	JME-05-O		
10:20-10:40	Coffee Break				
10:40-10:55	AM-06-O	10:40-10:55	JME-06-O	10:40-11:00	RAJU-05-L
10:55-11:10	AM-07-O	10:55-11:10	JME-07-O	11:00-11:20	RAJU-06-L
11:10-11:25	AM-08-O	11:10-11:25	JME-08-O	11:20-11:40	RAJU-07-L
11:25-11:40	AM-09-O	11:25-11:40	JME-09-O	11:40-12:00	RAJU-08-L
12:00-13:00	Lunch				
Poster Session (Visual-JW)					
13:00-14:00	Room L P-01-LMP-01 - P-21-JME-01				
Additive Manufacturing 2		**Laser Materials Processing**		**Energy Control of Processing**	
Room A		Room B		Room C	
14:00-14:20	AM-11-L	14:00-14:20	LMP-01-L	14:05-14:20	ECP-01-O
14:20-14:35	AM-12-O	14:20-14:35	LMP-02-O	14:20-14:35	ECP-02-O
14:35-14:50	AM-13-O	14:35-14:50	LMP-03-O	14:35-14:50	ECP-03-O
14:50-15:05	AM-14-O	14:50-15:05	LMP-04-O	14:50-15:05	ECP-04-O
15:05-15:20	AM-15-O	15:05-15:20	LMP-05-O	15:05-15:20	ECP-05-O
15:20-15:35		15:20-15:35	LMP-06-O	15:20-15:35	ECP-06-O
15:35-15:50		15:35-15:50	LMP-07-O	15:35-15:50	

CONTENS

Chair: Suo Li (Japan Atomic Energy Agency, Japan) / Hiroki Murakami (Osaka University, Japan)

Micro Joining (Room A)

Chair: Hiroshi Nishikawa (Osaka University, Japan) / Makoto Takahashi (Osaka University, Japan)

Welding Mechanism (Room B)

Chair: Rishabh Shotri (Osaka University, Japan) / Seong Min Hong (Osaka University, Japan)

Chair: Motomichi Yamamoto (Hiroshima University, Japan) / Hajime Yamamoto (Osaka University, Japan)

Joint Interface Structure and Formation Mechanism (Room B)

Chair: Yutaka S. Sato (Tohoku University, Japan) / Yuyang Hou (Osaka University, Japan)

Design & Engineering by Joint Inverse Innovation for Materials Architecture (DEJI^{2}MA) (Room C)

Chair: Yuichi Setsuhara (Osaka University, Japan)

Chair: Masakazu Kawashita (Tokyo Medical and Dental University, Japan)

Chair: Hidemi Kato (Tohoku University, Japan)

Poster Session (Room C)

Design & Engineering by Joint Inverse Innovation for Materials Architecture (DEJI²MA)

Additive Manufacturing (Room A)

Chair: Jens Günster (Federal Institute Of Materials Research And Testing: Bam, Germany) /
Soshu Kirihara (Osaka University, Japan)

Chair: Anthony B. Murphy (Commonwealth Scientific and Industrial Research Organization, Australia) /
Johanna Sänger (Federal Institute of Materials Research and Testing: BAM, Germany)

Chair: Fiona Spirrett (Osaka University, Japan) / Hiroya Abe (Osaka University, Japan)

Joining Metallurgical Evaluation (Room B)

Chair: Kazufumi Nomura (Osaka University, Japan) / Tomoya Nagira (National Institute For Materials Science, Japan)

Chair: Shotaro Yamashita (Osaka University, Japan) / Lina Yu (Osaka University, Japan)

Laser Materials Processing (Room B)

Chair: Patcharapit Promoppatum (King Mongkut's University of Technology Thonburi, Thailand) /
Yuji Sato (Osaka University, Japan)

The Research Activities of Joint Usage / Research Center on Joining and Welding (Room C)

Chair: Kota Kadoi (Osaka University, Japan)

Chair: Takayuki Yamashita (Osaka University, Japan)

Energy Control of Processing (Room C)

Chair: Yosuke Ogino (Osaka University, Japan) / Hisaya Komen (Osaka University, Japan)

Poster Session (Room L)

Laser Materials Processing

Additive Manufacturing