

MOROCCAN WORKSHOP ON 3D PRINTING (MW3DP'23)

Mohamed Sekkat University Library - Hassan II University of Casablanca

Wednesday, October 25, 2023

Workshop program

Welcome and Registration of Participants

Opening Ceremony

Pr. Essamed Rachid - ESTC Director

Pr. Zbouni BÉDOUR - AIM3D President

Pr. Khalid ZARLANE - Workshop President

Conference 1 : **Desam Systems: Strategies and Solutions for Additive Manufacturing**

Daniel PIZAN, Mechanical Industry Process Consult - Mgt Senior Director, within CATIA Industry Process Success organization

Breakfast photo - Coffee break and networking

Conference 2 : **Active matter and programmable matter**

Mohamed Ennaji, Professor ENSCM, Hassan II University of Casablanca

Lunch

Session 1 : Chair, Prs. M. Nassouan, A. Oubafloch, M. El Dumani, EST of Casablanca

INFLUENCE OF VOLUME FRACTION ON THE STRENGTH OF TOPOLOGICALLY OPTIMIZED 3D PRINTED STRUCTURES

Intissar Anter 1, Mourad Othmani 2, Khalid Zarlane 1, Mohamed El Dumani 1, Zbouni Bedouri

LATTICE STRUCTURE DESIGN: AN EXPLORATION OF AL-DRENN APPROACHES AND BENCHMARK ANALYSIS

A. Eljahd, A.A. Ouchatou, M. Nassouan, B. Rati, O. Boudekor

SURFACE ROUGHNESS OF ABS PARTS DEPENDING ON FDM PROCESS PARAMETERS: EXPERIMENTAL ANALYSIS

Khadoua Ouazzam, Anoukha F. B., Ismail Adnif, Mohammed Raboune, Reissou El Fahme

INFLUENCE OF NATURAL MOISTURE ON FUSED DEPOSITION MODELLING PROCESS

Bassem Al Hachri, Khalid Zarlane, Zbouni Bedouri

MULTI-SCALE MODELING METHODS OF LASER POWDER BED FUSION ADDITIVE MANUFACTURING TECHNOLOGY

Latifa Fatima Ezzaoua, Oubafloch Aissa, Laou Laila, El Hachri Bassem

QUALITY ASPECTS OF ALSi10Mg COMPONENTS PRODUCED THROUGH SELECTIVE LASER MELTING PROCESS: A LITERATURE REVIEW FOR IMPACTING FACTORS

El Mehdi Kiani, Khalid Zarlane, Zbouni Bedouri

Coffee break and networking

Session 2 : Chair, Prs. K. Zarlane, Z. Bedouri, M. Bouadla, EST of Casablanca

J-INTEGRAL ANALYSIS OF RASTER WIDTH INFLUENCE IN PLA CT SPECIMENS

Oussama Aouk, Abdelkader Chouf

STUDY OF THE FATIGUE BEHAVIOR OF PRINTED PARTS USING THE FDM PROCESS

Youssef Cheif, Aissa Oubafloch, Mohammed Nassouan

INFILL PATTERNS IMPACT OVER PRINTING SPEED IN FDM PROCESS: A REVIEW

El Mehdi Kiani, Oubafloch Aissa, Nassouan Mohammed

ANALYSIS OF PARAMETERS IMPACTING THE FUSED DEPOSITION MODELLING PROCESS

Fatima Redouane, Abdelmajid Ali Taib, Laila Laou

A REVIEW OF FUNCTIONALLY GRADIENT ADDITIVE MANUFACTURING

Samira Zineg, Noraldine Laghaz, Hakim A. Boucif

NUMERICAL MODELING TECHNIQUES OF 3D PRINTED PARTS FROM REINFORCED POLYMER: A REVIEW

Khalid Essafi, Aissa Oubafloch, Khalid Zarlane

Round Table and Closing Workshop