

FAIM Research Paper Presentation Listing

Business Intelligence in Manufacturing/Services						
Paper ID	Title	Presenter	Day	Time	Room	
1053	An application of a Rule-based system towards developing solutions for exception events within the networked Fuzzy VIKOR approach for selecting an optimum maintenance strategy	Dr. Bishnu Das	Monday	2:20-3:50	6	
1078		Dr Somasundaram Kumanan	Monday	2:20-3:50	6	
1101	CSP in aluminum rolling firms: using customers' requirements to improve the solution algorithm	Dr. Pierpaolo Caricato	Monday	2:20-3:50	6	
1191	Exploring new methods for determining failure probabilities of process plant components for preventive	Tobias Rudloff	Monday	2:20-3:50	6	
1192	A Space Allocation Algorithm for Minimal Early and Tardy Costs in Space Scheduling Problems	Prof. Chyuan Perng	Tuesday	2:15-3:45	6	
1222	Implementation of Remote Maintenance Support Services: A Case Study	Erik Johansson	Monday	4:10-5:20	6	
1255	Activity-based Cost Estimation with Consideration of Learning Effects in Product Family Design	Prof. Janis Terpeny	Monday	4:10-5:20	6	
1260	Managing Manufacturing Performance for Competitiveness	Prof. M. Munir Ahmad	Monday	4:10-5:20	6	
Business Process						
ID	Title	Presenter	Day	Time	Room	
1013	Selecting, Scheduling, and Balancing of R&D Project Portfolio: a Genetic Algorithm	Ching-chih Tseng	Monday	2:20-3:50	4	
1071	An empirical application of Six Sigma and DMAIC methodology for business process improvement	Dr Jose Arturo Garza-Reyes	Monday	2:20-3:50	4	
1082	A Multi-Dimensional Model for Performance Evaluation in the Construction Industry	Dr. Chike Oduoza	Monday	2:20-3:50	4	
1087	Continuous Improvement Tools to Improve Productivity in Manufacturing SMEs	Dr. Chike Oduoza	Monday	2:20-3:50	4	
1109	Support System of Collaborative Business Process Execution	Hyun Woo Kim	Tuesday	2:15-3:45	6	
1262	A Portfolio approach to management procurement risks in a two-echelon supply chain	Yuan Shi	Tuesday	2:15-3:45	6	
CAD/CAM Flexible Manufacturing/CIM						
ID	Title	Presenter	Day	Time	Room	
1012	3D CAD-Based Robot Programming for the SME Shop-Floor	Pedro Neto	Monday	10:50-12:20	3	
1015	A Simple Method For The Analytical Determination of The Position Loop Gain for CNC Machine Tools	Dr. Zoran Pandilov	Monday	10:50-12:20	3	
1049	Distributed Interoperable Manufacturing Platform Based on STEP-NC	Xi Wang	Monday	10:50-12:20	3	
1064	Manufacturing of perfect magnets	Kenneth Frogner	Monday	10:50-12:20	3	
1113	Automated process planning with geometric dependencies derived from a feature-based CAD drawing	Jorg Militzer	Tuesday	10:20-11:50	3	
1127	FMS Loading Models for Handling Alternative Process Plans and Synchronization with Shop Floor	Dr. Erinç Albey	Tuesday	10:20-11:50	3	
1142	3D models share and reuse for product development	Prof. Qingjin Peng	Tuesday	10:20-11:50	3	
1146	Linear Programming Formulation of Form Tolerances using Data Envelopment Analysis	Prof. Sohyung Cho	Tuesday	10:20-11:50	3	
1148	STEP-NC Code Generator system for intelligent CNC	Dr. Yusri Yusof	Wednesday	10:20-11:30	3	
1161	Rule-Based Assembly Planning Method Applied in Sequence Optimization	Lihui Wang	Wednesday	10:20-11:30	3	
1169	High speed pocket milling planning considering machining area partitioning	Prof. Dong-Won Kim	Wednesday	10:20-11:30	3	
1219	Mitigating Stresses in Pressure Vessels: Finite element modelling of cylindrical shell	Temilade Ladokun*	Tuesday	4:05-5:15	3	
1242	Highly Flexible Robotized Cells: application to small series painting	Marcos Ferreira	Wednesday	12:45-1:55	5	
1247	Implementing ISO standard 10303 application protocol 224 for automated process planning	Tim Neumann	Tuesday	4:05-5:15	3	
1248	CT based Manufacturing System for Dental Restorations	Jae Yong Baek	Tuesday	4:05-5:15	3	
1258	Process Control for Cryogenic CNC machining of Soft Elastomers	Dr. Vimal Dhokia	Wednesday	12:45-1:55	5	
Engineering for Sustainability						
ID	Title	Presenter	Day	Time	Room	
1019	Energy Efficiency Optimisation in Production Planning and Control	Anton Dietmair	Wednesday	10:20-11:30	5	
1020	Using Machine Signals for Condition Based Maintenance	Anton Dietmair	Wednesday	12:45-1:55	4	
1057	Framework and toolset for developing and realising sustainable production systems	Hasse Nylund	Tuesday	10:20-11:50	5	
1070	Design of Reconfigurable Disassembly Systems	Dr. Ignacio Eguia	Tuesday	10:20-11:50	5	
1091	The Determination of Upgrade Level and Warranty Length for Reused Productsold with warranty	Rouh- Yun Yu	Tuesday	10:20-11:50	5	
1100	Investigating the Recyclability of Liquid Crystal Display TV's	Dr. Alan Ryan	Monday	4:10-5:20	5	
1103	Life Cycle Cost Analysis for Automotive Component Reuse	Prof. Dzuraidah Abd Wahab	Monday	4:10-5:20	5	
1121	Energy Management in the Healthcare Sector: Current Status and Research Perspectives.	Marzia Treves	Monday	4:10-5:20	5	
1131	Competitiveness by integrating the green perspective in production – A review presenting challenges for research	Karin Romvall	Tuesday	10:20-11:50	5	
1164	Lighting the Environmental Sustainability Candle	William Guaghran	Tuesday	4:05-5:15	5	
1166	Flexibility Strategies in Small and Medium Enterprises – Discussion of Research Perspectives	Dr. Jens Schutze	Tuesday	4:05-5:15	5	
1253	Engineering Concepts for Sustainability	Kunal Desai	Tuesday	4:05-5:15	5	
Enterprise Knowledge Management						
ID	Title	Presenter	Day	Time	Room	
1011	Knowledge Management Framework to Improve Product Development in a Manufacturing Environment	Dr. Chike Oduoza	Tuesday	10:20-11:50	6	
1105	Knowledge-based Product Configuration through Product Life Cycle Oriented Feedback-Driven Requirements	Viktor Schubert	Tuesday	10:20-11:50	6	
1114	Analysis of the knowledge sources and flows in a company for supporting the development of new intelligent	Eeva Jarvenpaa	Tuesday	10:20-11:50	6	
1119	FMECA a Knowledge Management approach and case study	Glyn Rowland-Jones	Tuesday	10:20-11:50	6	
1149	Contributions towards Energy Assessments in Manufacturing Plants	Dr. Sebastian Horbach	Tuesday	10:20-11:50	6	
Environmental Health & Safety						
ID	Title	Presenter	Day	Time	Room	
1234	A health & safety perspective on environmental niches of community acquired infectious agents	Dr. Shahrazad Connolly	Wednesday	12:45-1:55	5	
Global Manufacturing & Supply Chain Logistics						
ID	Title	Presenter	Day	Time	Room	
1035	An intrinsic de-coupling in managing Supply Chain syndrome	Arnab Banerjee	Monday	10:50-12:20	5	
1050	Investigation of the Input Variables Treatment for BP NN Based Supplier Evaluation Model	Prof. M.H. Wu	Monday	10:50-12:20	5	
1055	Simulating the Ordering and Replenishing Policies for Short-lifecycle Products of the Retailer in a Supply Chain	Dr. Horng-Chyi Horng	Monday	10:50-12:20	5	
1059	A web-based approach for dynamic scheduling in the supply chain	Dr. Esther Alvarez	Monday	10:50-12:20	5	
1072	A Cost Optimisation Approach for the Storage of Spare Parts Within an Industrial Environment	Dr. Jean Khalil	Monday	4:10-5:20	3	
1081	Multi Objective Optimization for Supply Chain Management based on an Agent Based Framework	Tehtseen Aslam	Monday	4:10-5:20	3	
1106	Supply chain performance evaluation using DEA/TOPSIS model	Dr Somasundaram Kumanan	Monday	4:10-5:20	3	
1107	Method for Analysis and Dynamism of Factory-Structure in automotive Manufacturing	Carina Löffler	Monday	2:20-3:50	3	
1134	Pearl Chain Management Approach Based on AHP Model	Katja Unger	Monday	2:20-3:50	3	
1143	Carbon Reduction: New Criteria of Supply Chain Performance	Dr. Paul Eric Dossou	Monday	2:20-3:50	3	
1155	Analytical Hierarchy Process for Selection of RFID Systems: An Application in Retail Supply Chains	Aly Owida	Monday	2:20-3:50	3	
1172	An Analytical Hierarchy Process Approach to supplier selection issues of fractal manufacturing partnership	Prof. Saad Sameh	Tuesday	2:15-3:45	3	
1177	Coordinating demand and supply chain management	Prof. Sameh Saad	Tuesday	2:15-3:45	3	
1208	A network model to manage pharmaceutical supplies requirements in healthcare structures	Falivene Mario	Tuesday	2:15-3:45	3	
1220	A Framework for Risk Assessment and Mitigation in the Supply Chain	Prof. Suraj M. Alexander	Tuesday	2:15-3:45	3	
1252	Applying 'Exponential Growth Models' to Determine OEM Warehouse Capacity Requirements	Steve Davies	Wednesday	10:20-11:30	5	
1259	Analytical Target Cascading For Distributed Supply Chain Configuration	Dr. Qu Ting	Wednesday	10:20-11:30	5	

FAIM Research Paper Presentation Listing

Manufacturing Mobility						
ID	Title	Presenter	Day	Time	Room	
1095	Building Blocks for a Mutable Factory System	Dr. Sebastian Horbach	Wednesday	12:45-1:55	3	
1241	Robotic Manipulator and Artificial Vision System for Picking Cork Pieces in a Conveyor Belt	Miguel Pinto	Wednesday	12:45-1:55	3	
Manufacturing Processes and Technology						
ID	Title	Presenter	Day	Time	Room	
1007	Feature-based Decision Method for the Estimation of Technological Process Chains	Ngoc-Anh Tran	Monday	10:50-12:20	4	
1032	Thin film silicon dioxide micro-scale parts release by Ethylenediamine-Pyrocatechol-Water solution	Mary Tellers	Monday	10:50-12:20	4	
1033	Incremental sheet metal forming of variable thickness sheet metals and comparison with another by a flat ended	Saeed Mirian	Monday	10:50-12:20	4	
1040	New Flexibility Tool Application in a Medium Production Company	Viktor Schubert	Monday	2:20-3:50	4	
1044	Optimization of Multi-Task Turning Operation under Minimal Tool Waste Consideration	Yi-Chi Wang	Monday	2:20-3:50	4	
1045	Current Status of 3D Data Acquisition and Processing Technologies	Lihui Wang	Wednesday	12:45-1:55	1	
1063	Abrasive waterjet fine-cutting based on the injector principle Technology and processing plant for the precision	Carsten Loeser	Monday	2:20-3:50	4	
1074	Design and operation of a reflection transmission vision system for fruit imaging and grading	Hossein Golnabi	Tuesday	10:20-11:50	4	
1079	Real-Time Order Progress Kanban Services	Zhi Li	Tuesday	10:20-11:50	4	
1089	Line assembly downsizing and recovery in mid-size production unit	Pekka Syvänen	Tuesday	10:20-11:50	4	
1126	Modeling of heat transfer from a billet in transit surrounded by reradiating duct to improve energy efficiency in	Hardik Kabaria	Tuesday	2:15-3:45	4	
1132	Increasing the Operational Efficiency of a Commercial Laundry: Layout Optimization and Process Automation	Dr. Michael A. Saliba	Tuesday	2:15-3:45	4	
1135	The Application of an Intersectoral Reconfigurable Manufacturing Automation Testbed to provide an	Dr. Michael A. Saliba	Tuesday	2:15-3:45	4	
1141	Modeling of Density Variation in Green Compacts	Ahmad Ghaseempour	Tuesday	2:15-3:45	4	
1144	Effects of Cell Layout and Cell Control Strategies on Multi-Machine Manufacturing Cells with CMM Feedback	Tom Bering	Tuesday	10:20-11:50	4	
1151	The artificial intelligence methods in tooth contact development of spiral and hypoid bevel gears	Piotr Skawinski	Tuesday	4:05-5:15	4	
1154	Multiobjective optimization in process planning	Prof. Predrag Cosic	Tuesday	4:05-5:15	4	
1157	Hybrid Flowshop Scheduling with Multi-stage Family Setup Time Using Genetic Algorithm	Hao Luo	Tuesday	4:05-5:15	4	
1162	Automated Production of Nano-Composites with Carbon Nanotubes	Prof. Nebojsa Jaksic	Wednesday	12:45-1:55	3	
1174	Using a PVA Separator to Improve Screen Printed Electric Cells	Sonya Quinn	Monday	4:10-5:20	4	
1181	Reduction of Heat Affected Zone during Electroslag Welding by heat transfer analysis	Jasjeet Singh Seehra	Monday	4:10-5:20	4	
1201	Neural Network-Based Parameters Identification of Dynamic Systems with Time Delay	Jin Zhu Peng	Wednesday	10:20-11:30	1	
1202	Adaptive Control for Nonlinear Dynamic System Using Recurrent Neural Networks	Jin Zhu Peng	Wednesday	10:20-11:30	1	
1211	Optimization of Micro Metal Injection Molding for Highest Green Strength by Using TAGUCHI Method	Prof. Norhamidi Muhamad	Monday	2:20-3:50	4	
1237	Incremental sheet metal forming of variable thickness sheet metals and comparison with another	Dr. Seyed Mohsen Safavi	Monday	10:50-12:20	4	
1243	A Systematic Approach to Iranian Industry Challenges in Oil and Gas Projects Using the DEMATEL Technique	Farzad Shahbodaghlou	Wednesday	10:20-11:30	1	
1261	A Critical Event Processing Framework over RFID-Enabled Manufacturing Environment	Ji Fang	Wednesday	12:45-1:55	1	
Nanosciences and Nanotechnologies in Manufacturing						
ID	Title	Presenter	Day	Time	Room	
1235	Safer Efficacious Chemotherapy Against Community Infectious Agents	Dr. Shahrzad Connolly	Wednesday	10:20-11:30	6	
Product Design/Design for Manufacture/Assembly						
ID	Title	Presenter	Day	Time	Room	
1061	Advancement of Kano's Theory enables integrated customer orientation	Christian Kern	Tuesday	2:15-3:45	5	
1076	The Design of Material Allocation Mechanism under a MTS Environment for the TFT-LCD Module Factory	Chang Yuan-Ming	Tuesday	2:15-3:45	5	
1094	Integrative Development of Product and Production System for Mechatronic Products	Sascha Kahl	Tuesday	2:15-3:45	5	
1060	A holistic approach for Structuring Stakeholder Requirements considering the requirements' degree of	Sandra Klute	Tuesday	2:15-3:45	5	
1128	A Real-time Optimization Approach for Product Platform Planning: A Case Study of Pressure Vessels	Mukul Tripathi	Monday	10:50-12:20	6	
1133	Development of a sensor system for determination of an absolute pose of the 6-DOF Hexapod of the biped robot	Mekonnen Tesfay Tesfu	Monday	10:50-12:20	6	
1147	An Adaptive Stochastic Sectioning Algorithm for Optimization of Series Parallel System Reliability: A Case	Mukul Tripathi	Monday	10:50-12:20	6	
1168	Application of 3D modeling and FE Analysis to reduce the manufacturing costs of a Landfill Compactor Tooth	Martin McKie	Monday	10:50-12:20	6	
1256	Process based Collaborative Product Data Management System	Bo Hyun Kim	Tuesday	10:20-11:50	1	
1263	Concurrent Feature-Based Assembly Sequence Planning	Prof. Mithal Albassam	Tuesday	10:20-11:50	1	
Re-Engineering, Lean and Agile Manufacture						
ID	Title	Presenter	Day	Time	Room	
1084	Component Based Modeling and Simulation of Value Stream Mapping for Lean Production Systems	Mohamed Shararah	Wednesday	10:20-11:30	6	
1231	An analysis for the reduction of rejections using TRIZ problem solving tool	Dr. V.Ramesh	Wednesday	10:20-11:30	6	
Simulation, Manufacturing Systems and TQM						
ID	Title	Presenter	Day	Time	Room	
1008	Simulation special systems and measurement important parameters with minimal sensors using Lab VIEW	Dr. Seyed Mohsen Safavi	Monday	2:20-3:50	1	
1018	Module Structure Production System for Demand Oriented Production System	Prof. Yoshiro Fukuda	Monday	2:20-3:50	1	
1038	Modelling and Analysis of Static Aspects of Job Boredom: A Bayesian Networks Approach	Prof. Ming Liang	Monday	2:20-3:50	1	
1056	Simulation modelling to support life cycle Engineering of Manufacturing systems	Zihua Cui	Monday	4:10-5:20	1	
1058	A Hybrid Approach of a Individual-Genetic Algorithm and Threshold Accepting for Solving Job Shop	Sascha Lemke	Monday	4:10-5:20	1	
1065	Multi-level modelling of manufacturing systems	Oratai Vacharaphol	Monday	4:10-5:20	1	
1085	Service Oriented Architecture for automatic planning and programming of industrial robots	Prof. Gunnar Bolmsjo	Tuesday	10:20-11:50	1	
1108	Relations between Volume Flexibility and Part Cost in Assembly Lines	Mathias Jonsson	Tuesday	10:20-11:50	1	
1116	Simulation-based Innovation for the Analysis of a Machining Line	Catarina Dudas	Tuesday	2:15-3:45	1	
1117	Decision Support System (DSS) to minimize raw material procurement costs	Urs Buehlmann	Monday	2:20-3:50	1	
1123	A scheduling system for real-time decision making support using simulation-based optimization	Marcus Frantzen	Tuesday	2:15-3:45	1	
1125	Robust dispatch strategies for highly variant process times	Jan Lange	Tuesday	2:15-3:45	1	
1129	Set-up and first steps on capturing of realistic resource characteristics of an intelligent manufacturing	Hasse Nylund	Tuesday	2:15-3:45	1	
1153	Data modeling for online simulation- requirements and architecture	Daniel Noack	Tuesday	4:05-5:15	1	
1156	The use and impact of Business Excellence Models on Organizations: The case of the Mexican Quality Award"	Dr Jose Arturo Garza-Reyes	Tuesday	4:05-5:15	1	
1176	Barriers of TQM Implementation in Libyan Manufacturing Companies	Dzuraidah Abd Wahab	Tuesday	4:05-5:15	1	
1209	Simulation Study of FMS with Alternate Routings – An Integrative Methodology	Prof. Dusan Sormaz	Monday	10:50-12:20	1	
1216	Scheduling in a multi precast concrete production sections using simulation technology	Hadi Hedayati*	Monday	10:50-12:20	1	
1229	A Simulation Model for Identifying Impacts of Order and Resource Selection Rules on Precast Concrete	Hadi Hedayati	Monday	10:50-12:20	1	
1236	Maintenance Service Improvement using Computer Simulation	Stephen Clarkson	Monday	10:50-12:20	1	
1238	Failure Variation Effects on Production Lead-Times	Dr. Helen Zong	Wednesday	12:45-1:55	4	
1240	Tracking of the Position of a Marker for Use in Industrial Processes	Pedro Neto	Wednesday	12:45-1:55	4	
1244	The Fundamental Research of Structure Thermal Deformation on Machine Tool Feeding System	Prof. Pai-Chung Tseng	Wednesday	10:20-11:30	4	
1250	The development of factory templates for the integrated virtual factory framework	Américo Azevedo	Wednesday	10:20-11:30	4	
1251	Overall Measurement of Production Equipment Effectiveness for Performance Monitoring and ISION	Dr. Fabio Fruggiero	Wednesday	10:20-11:30	4	
Allied Topics						
ID	Title	Presenter	Day	Time	Room	
1051	Coverage analysis of RFID Indoor Localization System for refrigerated warehouses based on 2D-Ray tracing	Dr. Giada La Scalia	Tuesday	4:05-5:15	6	
1054	Experimental analysis of shelf life based inventory management policies for RFID enabled supply chains	Rosa Micale	Tuesday	4:05-5:15	6	
1124	RFID and its Link with ERP in a Manufacturing SME	Sara Zarei	Tuesday	4:05-5:15	6	
1173	Rheological Investigation of Gas Atomized Titanium Powder for Metal Injection Molding Using Palm Stearin	Prof. Norhamidi Muhamad	Wednesday	12:45-1:55	6	
1195	A Comparison Between the Denavit-Hartenberg and the Screw-Based Methods Used in Kinematic Modeling of	Dr. Altamir Dias	Wednesday	12:45-1:55	6	
1196	An applied screw theory to compute the kinematics of multi-robots system in cooperative tasks	Dr. Altamir Dias	Wednesday	12:45-1:55	6	