The 13th International Conference on Industrial Management ICIM2016



September 21 - 23, 2016

Hiroshima, Japan

CONFERENCE PROGRAM

Sponsors

Beihang University (BUAA)

Japan Industrial Management Association Chugoku-Shikoku Branch (JIMA)

Cosponsor

The Japan Society of Mechanical Engineers (Manufacturing Systems Division)

Cooperation

National Natural Science Foundation of China Hiroshima University

Venue Information

Opening Ceremony, Lunch, Banquet:

Hiroshima City Bunka Koryu Kaikan (広島市文化交流会館) Address: Kakomachi 3-3, Naka-ku, Hiroshima 730-8787 (広島市中区加古町 3-3)

Presentation Rooms:

JMS Aster Plaza (JMS アステールプラザ) Address: Kakomachi 4-17, Naka-ku, Hiroshima 730-0812 (広島市中区加古町 4-17)

Welcome Party:

Hiroshima Museum of Art (ひろしま美術館) Address: Motomachi 3-2, Naka-ku, Hiroshima 730-0011 (広島市中区基町 3-2)

Walk: 23 min. (1.9km), Taxi: 10 min. (2km, 800 yen, no traffic jam), Bus: 20min. (180yen)

Map:



200m ____

I. CONFERENCE SCHEDULE

Wednesday, September 21, 2016

		Hiroshima City
8:10 AM - 11:00 AM	Registration	Bunka Koryu Kaikan
		(3 rd floor)
		Conference Room
9:00 AM -11:00 AM	Opening Ceremony and Keynote Speech	Galaxy
		(3 rd floor)

(1) Speech by Prof. Katsuhiko TAKAHASHI

Chairman of ICIM2016, Japan

Faculty of Engineering, Hiroshima University, Japan

(2) Speech by Prof. Huiwen WANG

Chairman of ICIM2016, China

School of Economics and Management, Beihang University, China

(3) Keynote Speech: Mazda's Monotsukuri Innovation at the Mexico Plant (MMVO)

Mr. Osamu TOMINAGA

General Manager

Production Control & Logistics Division, Mazda Motor Corporation

(4) Keynote Speech: *The Optimal Design for Carbon Emission Trading*Prof. Ying FAN

Dean

School of Economics and Management, Beihang University, China

11:00 AM -11:30 AM	Photos	

11.20 AM 4.00DM	Dagistration	JMS Aster Plaza
11:30 AM – 4:00PM	Registration	(4 th floor)

11:30 AM - 1:00 PM Lunch Hiroshima City Bunka Koryu Kaikan Restaurant

1:00 PM -	Track	Session Chair	Meeting Rooms of
2:40 PM			JMS Aster Plaza
			(4 th floor)
Session 1A	Advanced Production	Yoshinarai	Meeting Room 1
	Management Methodologies (1)	YANAGAWA	
	&		
	Practice and Experiences in		
	Industrial Management (1)		
Session 1B	Advanced Production	Hong ZHOU	Meeting Room 2
	Management Methodologies (2)		
Session 1C	Artificial Intelligence and	Shigekazu	Meeting Room 3
	Information Technology	ISHIHARA	
	in Industrial Management (1)		
Session 1D	Artificial Intelligence and	Qiuhong ZHAO	Meeting Room 4
	Information Technology		
	in Industrial Management (2)		

2:40 PM - 3:00 PM Tea Break

3:00 PM -	Track	Session Chair	Meeting Rooms of
4:40 PM			JMS Aster Plaza
			(4 th floor)
Session 2A	Advanced Production	Katsumi	Meeting Room 1
	Management Methodologies (3)	MORIKAWA	
Session 2B	Advanced Production	Zhong YAO	Meeting Room 2
	Management Methodologies (4)		
Session 2C	Artificial Intelligence and	Shuichi	Meeting Room 3
	Information Technology	TOKUNAGA	
	in Industrial Management (3)		
Session 2D	Artificial Intelligence and	Liyan HAN	Meeting Room 4
	Information Technology		
	in Industrial Management (4)		
	&		
	Research and Development		

5:00 PM	Open	Hiroshima Museum of Art
5:00 PM - 6:00 PM	Art Appreciation	Hiroshima Museum of Art (Hall)
	(Optional Event)	
6:00 PM - 7:30 PM	Welcome Party	Hiroshima Museum of Art (Garden Party)

Thursday, September 22, 2016

Registration

Energy and Environment

9:10 AM -

Session 3C

9:10 AM -	Registration		(4 th floor)
9:20 AM –	Track	Session Chair	Meeting Rooms of
10:40 AM			JMS Aster Plaza
			(4 th floor)
Session 3A	Production Management (1)	Guozhu JIA	Meeting Room 1
Session 3B	Project Management	Takayuki	Meeting Room 2
		KATAOKA	

Lei ZHU

JMS Aster Plaza

Meeting Room 3

10:40 AM - 11:00 AM Tea Break

Management (1)

11:00 AM -	Track	Session Chair	Meeting Rooms of
12:20 AM			JMS Aster Plaza
			(4 th floor)
Session 4A	Production Management (2)	Weiguo FANG	Meeting Room 1
Session 4B	Digital Factory (1)	Yoshiomi	Meeting Room 2
		MUNESAWA	
Session 4C	Energy and Environment	Zhuqi XU	Meeting Room 3
	Management (2)		

Hiroshima City Bunka Koryu Kaikan Restaurant 12:00 AM - 1:30 PM Lunch

1:20 PM –	Track	Session Chair	Meeting Rooms of
2:40 PM			JMS Aster Plaza
			(4 th floor)
Session 5A	Quantitative Analysis in Industrial	Shinji INOUE	Meeting Room 1
	Management (1)		
	&		
	Miscellaneous		
Session 5B	Quantitative Analysis in Industrial	Ronggang ZHOU	Meeting Room 2
	Management (2)		
Session 5C	Quantitative Analysis in Industrial	Seiko TAKI	Meeting Room 3
	Management (3)		

2:40 PM - 3:00 PM Tea Break

3:00 PM -	Track	Session Chair	Meeting Rooms of
4:20 PM			JMS Aster Plaza
			(4 th floor)
Session 6A	Quantitative Analysis in Industrial	Akimine	Meeting Room 1
	Management (4)	NISHIKORI	
	&		
	Energy and Environment		
	Management (3)		
Session 6B	Quantitative Analysis in Industrial	Dongwen TIAN	Meeting Room 2
	Management (5)		
Session 6C	Practice and Experiences in	Yukihiro	Meeting Room 3
	Industrial Management (2)	MATSUBARA	

4:40 PM –	Track	Session Chair	Meeting Rooms of
6:20 PM			JMS Aster Plaza
			(4 th floor)
Session 7A	Quantitative Analysis in Industrial	Yoshiaki	Meeting Room 1
	Management (6)	ISHIHARA	
Session 7B	Digital Factory (2)	Ning ZHOU	Meeting Room 2
Session 7C	Production Management (3)	Mitsuru JINDAI	Meeting Room 3

7:00 PM - 9:00 PM Banquet & Awards

Hiroshima City Bunka Koryu Kaikan, Galaxy (3rd floor)

Friday, September 23, 2016

9:30 AM – 12:00 AM	Factory Tour
	Mazda Motor Corporation

II. PRESENTATION SCHEDULE

Day 1: Wednesday, September 21, 2016

1:00 PM - 2:40 PM (Venue: Meeting Room 1) Session	on Chair: Yoshinarai YANAGAWA		
1A: Advanced Production Management Methodologies (1) (4 Papers)			
Practice and Experiences in Industrial Management (1	Practice and Experiences in Industrial Management (1) (1 Paper)		
ON SUPPLIER SELECTION OF EQUIPMENT R&D	Xuefeng Lu, Wenbing Chang,		
PROJECT BASED ON CLOUD TOPSIS METHOD	Shenghan Zhou, Jianing Zhang,		
	Zhengxiang Wang		
AGREEMENT CONDITION AND COOPERATIVE	Yasuhiko Takemoto,		
BARGAINING IN CAPACITY RESERVATION	Ikuo Arizono		
CONTRACT FOR SEMICONDUCTOR INDUSTRY			
EXPERIMENTAL STUDY OF PRISONER'S DILEMMA	Xingnan Li		
THE STORAGE ASSIGNMENT RESEARCH IN THE	Renqian Zhang, Yunxia Pan		
SINGLE GATEWAY WAREHOUSE: AN EMPIRICAL			
STUDY			
STUDY OF RURAL MIGRATION ACTIVITIES BY	Naoki Takabayashi,		
QUESTIONNAIRE	Yoshiki Nakamura,		
	Hisashi Yamamoto,		
	Masaaki Ohba,		
	Yukio Maruyama		

1:00 PM - 2:40 PM (Venue: Meeting Room 2)	Session Chair: Hong ZHOU	
1B: Advanced Production Management Methodologies (2) (5 Papers)		
RESEARCH ON THE PORT MANAGEMENT AND THE	Peng Sun, Guozhu Jia	
MODE OF LOGISTICS DEVELOPMENT A CASE		
ANALYSIS BASED ON THREE JAPANESE PORTS'		
DEVELOPMENT: TOKYO PORT, YOKOHAMA PORT		
AND KAWASAKI PORT		
IDENTIFICATION OF CRITICAL FACTORS AND THEIR	Sujan Piya, Ahm Shamsuzzoha,	
INTERRELATIONSHIPS TO MEASURE SUPPLY CHAIN	Mohammed Khadem	
AGILITY LEVEL: CASES FROM OMANI OIL AND GAS		
INDUSTRIES		
OPTIMIZATIONS AND EVALUATIONS OF	Jing Lu, Guozhu Jia	
PRODUCTION LOGISTICS FACILITY LAYOUT		
SCHEMES		
DESIGNING OF INFORMATION SYSTEMS IN	Tamotsu Kamigaki	
MANUFACTURING WITH IOT: INTRODUCING		
OBJECT-ORIENTED RFID FOR CONTROL SYSTEM		
IMPROVEMENT ON CO-OP ADVERTISING MODEL IN	Xiaoming Zhang, Weiguo Fang	
MANUFACTURER-RETAILER SUPPLY CHAINS		

1:00 PM - 2:40 PM (Venue: Meeting Room 3) Sessi	ion Chair: Shigekazu ISHIHARA
1C: Artificial Intelligence and Information Technology in Ir	ndustrial Management (1)
(5 Papers)	
MODELLING SEMANTIC SOCIAL NETWORK FOR	Yan Yu, Suling Jia,
RESEARCHER RECOMMENDATION: A CONCEPTUAL	Jin-Xing Hao
GRAPH PERSPECTIVE	
SMARTPHONE BASED INORGANIC CHEMISTRY	Tsukasa Ishimura,
LEARNING SUPPORT SYSTEM USING AR APPROACH	Masaru Okamoto,
	Yukihiro Matsubara
AN OPTIMAL SOLUTION APPROACH FOR THE	Changhao Huang,
K-MEDOIDS CLUSTERING BASED ON	Xiaorong Zuo, Chuan Zhu,
MATHMATICAL PROGRAMMING	Yiyong Xiao
DEVELOPMENT OF VELOCITY CONTROL-BASED	Mizuki Kyogoku,
INTERFACE FOR VIRTUAL DOPPLER EFFECT	Masaru Okamoto,
EXPERIENCE	Yukihiro Matsubara
APPLICATIONS OF BLOCK CHAIN TECHNOLOGY IN	YaomengYue, Jiawei Tian,
CREDIT RATING	Li Wang, Yingcheng Xu,
	Yue You, Yao Zhong,
	Xue Shen, Yuexiang Yang

1:00 PM - 2:40 PM (Venue: Meeting Room 4)	Session Chair: Qiuhong ZHAO
1D: Artificial Intelligence and Information Technology in In	dustrial Management (2)
(5 Papers)	
CORRELATION ANALYSIS OF MULTI-SOURCE	Yue You, Yaomeng Yue,
PRODUCT QUALITY INFORMATION	Chan Lyu, Li Wang,
	Yao Zhong, Jiawei Tian
MULTIMEDIA DAISY BOOKS AS LEARNING AIDS	Keiko Ishihara,
	Misuzu Miyake,
	Yukari Rutson-Griffiths,
	Fumio Matsukawa,
	Tomoko Nakamura
A SYNTHETICAL APPROACH FOR PUBLIC	Siqing Shan, Mengni Liu
EMERGENCY RELATED BLOG EVALUATION:	
COMBINING CONTENT RELEVANCE, CREDIBILITY,	
SEMANTIC ANALYSIS AND SOCIAL NETWORKING	
PSYCHOLOGICAL DYNAMIC MODEL AND	Hao Yu, Suling Jia
ANALYSIS: EMERGENCY EVENTS FORWARDING	
BEHAVIOUR IN WEIBO	
ASSESSMENT ON THE IMPLEMENTATION EFFECT	Zhenyu Gao, Bang Xia,
OF NATIONAL INNOVATIVE RESEARCH GROUP	Huiwen Wang
FOUNDATION	

3:00 PM - 4:40 PM (Venue: Meeting Room 1)	Session	Chair: Katsumi MORIKAWA
2A: Advanced Production Management Methodol	logies (3) (5	Papers)
HOW DOES A FINANCIALLY CONSTR	RAINED	Tianyun Li, Weiguo Fang,
RETAILER RESPONSE TO THE MARKET? A	STUDY	Chen Yang
ON QUANTITY DISCOUNT AND DELAY IN PAY	MENT	
SUITABLE GVRP ALGORITHM SELECTION FO	R FUEL	Ruengsak Kawtummachai,
CONSUMPTION MINIMIZATION IN A PRAC	CTICAL	Tsutomu Shohdohji
PRODUCT DISTRIBUTION CASE STUDY		
BANK'S INTEREST RATE DECISION	WHEN	Chen Yang, Weiguo Fang,
FINANCING WORKING CAPITAL-CONSTR	RAINED	Tianyun Li
NEWSVENDOR RETAILER		
PRODUCT DEMAND ALLOCATION	AND	BanindaYurisulhikmah
DISTRIBUTION OPTIMIZATION MODEL	USING	Yosi Agustina Hidayat
TRANSSHIPMENT MODEL		
(CASE STUDY: PT PERTAMINA LUBRI	CANTS	
INDONESIA)		
ANALYSIS FOR THE STRATEGY OF CLOSEI	D-LOOP	Min Gao, Guozhu Jia
SUPPLY CHAIN WITH THE DOMINATION C	F THE	
RETAILER AND DUAL RECYCLING CHANNEL	S	

3:00 PM - 4:40 PM (Venue: Meeting Room 2)	Session Chair: Zhong YAO	
2B: Advanced Production Management Methodologies (4) (5 Papers)		
OPTIMIZATION OF NOZZLE LOADING PROBLEM IN	Shujuan Guo, Xiaoqing Zhang,	
MULTIPLE PCB TYPES ASSEMBLY	Fei Geng, Zhihong Jin	
A STUDY ON A VEHICLE ROUTING PROBLEM OF	Yoshiaki Ishihara,	
FINISHED CARS CONSIDERING SERVICE ORDERS IN	Keizo Wakabayashi,	
DISTRIBUTION CENTERS	Kuninori Suzuki,	
	Zhuqi XU, Yuanming SU,	
	Shusaku Hiraki	
OPTIMAL ORDERING POLICY OF PERISHABLE	He Hu, Li Li	
PRODUCT RETAILER BASED ON SUPPLY CHAIN		
CONTRACTS		
INVENTORY CONTROL USING LINEAR FUNCTIONS	Mimori Hanataka,	
FOR DUAL-CHANNEL SUPPLY CHAINS	Daisuke Hirotani	
RESEARCH ON EMERGENCY VEHICLE ROUTING	Xue Rui, Hong Zhou	
PROBLEM FOR LIMITED RELIEF SUPPLIES		

3:00 PM - 4:40 PM (Venue: Meeting Room 3) Sessio	on Chair: Shuichi TOKUNAGA
2C: Artificial Intelligence and Information Technology in Ind	lustrial Management (3)
(5 Papers)	
PRICING ON EARTHQUAKE INSURANCE BASED ON	Junzhang Hao, Manying Bai
SKEWED DISTRIBUTIONS	
DEVELOPMENT OF A VIRTUAL WINDOW	Takumi Shima, Mitsuru Jindai,
COMMUNICATION SYSTEM FOR REMOTE	Tohru Sasaki, Shunsuke Ota
COMMUNICATION	
ANSWER EVALUATION IN Q&A COMMUNITY SITE	Siqing Shan, Tong Zhang
ON THE TOPIC OF NATURAL DISASTER	
DEVELOPMENT OF A SMALL-SIZE HANDSHAKE	Shunsuke Ota,
ROBOT SYSTEM FOR GENERATION OF HANDSHAKE	Yoshihiro Sejima,
RESPONSE MOTION USING NON-CONTACT	Mitsuru Jindai
MEASUREMENTS	
EMERGENCY RESPONSE DECISION ADAPTIVE UGC	Shan Siqing, Hou Yinfeng
CLASSIFICATION EVALUATION MODEL FOR	
DECISION DEMAND	

3:00 PM - 4:40 PM (Venue: Meeting Room 4)	Session Chair: Liyan HAN
<u>2D</u> : Artificial Intelligence and Information Technology in Inc	lustrial Management (4)
(2 Papers)	
Research and Development (3 Papers)	
PHAIIE- A DYNAMIC CITY DISASTER LOSS	Shan Siqing, Lin Xiao
ASSESSMENT MODEL BASED ON UGC	
DEVELOPMENT OF METHOD AND APPARATUS FOR	Zhang Mingyu, Liang Shuyu,
THE WORK ANALYSIS IN WAREHOUSE OPERATION	Yasuhiro Kajihara,
	Kiyoshi Fukunaga
A BENEFIT-DISTRIBUTION MECHANISM OF	Lv Xiao-Dong, Zhang Tao,
COLLABORATIVE INNOVATION ALLIANCES	Xue Chuan-Xing
CONSTRUCTING OF THE CREDIT EVALUATION	Ning Zhou, Jinli Yu,
SYSTEM OF SCIENTIFIC RESEARCH BASED ON	Xiaoting Han, Xiangyu Wang,
FULL-LIFE CYCLE PERSPECTIVE	Yin Zhou
THE SYSTEM OF PERFORMANCE APPRAISAL INDEX	Ning Zhou, Shu Meng,
FOR TECHNICAL PERSONNEL IN THE IT	Lingyun Yu, Enlong Fan,
ENTERPRISES —AN EXAMPLE IN CHINA	Bowen Cai

Day 2: Thursday, September 22, 2016

9:20 AM - 10:40 AM (Venue: Meeting Room 1)	Session Chair: Guozhu JIA
3A: Production Management (1) (4 Papers)	
A NEW AREA LINEARIZATION METHOD AND	Yiyong Xiao, Jianrui Dong,
SYMMETRY-BREAKING CONSTRAINTS FOR THE	Changhao Huang, Yue Xie
UNEQUAL-AREA FACILITY LAYOUT PROBLEM	
NEIGHBORHOOD ALGORITHM FOR FLEXIBLE JOB	Aya Ishigaki and Yuki Matsui
SHOP SCHEDULING PROBLEMS	
HUMAN RELIABITY OF MANUFACTURING SYSTEM	Ye Lin, Xing Pan, Xi Chen
BASED ON INTEGRATED THERP AND HCR	
USER EXPERIENCE EVALUATION FOR 3D VIRTUAL	Mengli Yu, Ronggang Zhou,
REALITY GLASSES	Weihua Zhao, Yongweijian Yu

9:20 AM - 10:40 AM (Venue: Meeting Room 2) Sess	sion Chair: Takayuki KATAOKA
3B: Project Management (4 Papers)	
INFLUENCE OF XBRL ON INVESTMENT DECISIONS UNDER THE CONDITION OF INFORMATION CONFLICT: AN EXPERIMENTAL STUDY	Dan Wang, Lixin Pan, Maoran Meng
CAPACITY SELECTION FOR HUBS AND HUB LINKS IN HUB LOCATION PROBLEMS OVER INCOMPLETE HUB NETWORKS	Yusuke Tsukada, Keisuke Nagasawa, Katsumi Morikawa, Katsuhiko Takahashi
STUDY ON TARGET COST MANAGEMENT IN AERONAUTIC DEVELOPMENT PROJECT BASD ON EARNED VALUE METHOD	Yigong Liu, Lixin Pan, and Jing Jin
ACTIVE LEARNING AND ITS APPLICATION IN ENTERPRISE RISK WARNING	Quanbao Li, Fajie Wei, Chen Li, Shan Lu

9:20 AM -10:40 AM (Venue: Meeting Room 3)	Session Chair: Lei ZHU
3C: Energy and Environment Management (1) (4 Papers)	
A STUDY ON THE CORRELATION BETWEENT	Yihui Shi, Yan Zou
BOARD GOVERNANCE AND ENVIRONMENTAL	
PERFORMANCE	
INVENTORY CONTROL WITH SWITCHING POINTS	Hiroki Matoba,
FOR REMANUFACTURING SYSTEMS	Daisuke Hirotani
ENERGY CONSUMPTION EVALUATION IN SEWAGE	Lei Zhang, Zhihong Zou
TREATMENT BASED ON GREY RELATIONAL	
ANALYSIS	
SEASONAL EVALUATION OF ENERGY	Ranran Li, Zhihong Zou
CONSUMPTION OF SEWAGE TREATMENT BASED ON	
PROJECTION PURSUIT	

11:00 AM - 12:20 AM (Venue: Meeting Room 1)	Session Chair: Weiguo FANG
4A: Production Management (2) (4 Papers)	
AMENDING THE CRITICAL VALUE OF	Ren-qian Zhang, Meng Yi
BACKORDERING RATE IN THE DETERMINISTIC EOQ	
WITH PARTIAL BACKORDERING	
SEQUENCING METHOD CONSIDERING PICKING	Zhuqi Xu, Yoshiaki Ishihara,
EFFICIENCY FOR MIXED-MODEL ASSEMBLY LINES	Fugejile, Shusaku Hiraki
WITH SET PARTS SUPPLY SYSTEM	
CONSUMERS' ONLINE REVIEW SEARCH BEHAVIOR	Zhong Yao, Jing Luan,
CONSIDERING SEARCH AND EXPERIENCE	Futao Zhao, Cungen Zhu,
PRODUCTS: AN EYE-TRACKING STUDY	Hao Liu
INTERACTION ANALYSIS OF DIFFERENT	Jie Jin, Qiuhong Zhao
PARTICIPANTS IN PRODUCTION SAFETY	
SUPERVISION: A GAME THEORETIC APPROACH	

11:00 AM - 12:20 AM (Venue: Meeting Room 2) Session	Chair: Yoshiomi MUNESAWA
4B: Digital Factory (1) (4 Papers)	
EVALUATION OF PERCEIVED MUSCLE FATIGUE DUE TO REPETITIVE ELBOW HOLDING TASK	Ayana Nozawa, Takanori Chihara, Akihiko Seo
EFFECT OF VERBAL INSTRUCTIONS ON PHYSICAL WORKLOAD DURING PICKING TASKS	Ayana Goya, Takanori Chihara, Akihiko Seo
ANALYSIS OF BUSES' REGULATORY IN URBAN INTELLIGENT TRANSPORTATION SYSTEM: BASED ON PORTRAIT DISCRIMINATION	Yao Wei, Su-Ling Jia
EFFECT OF VIEWING CONDITION OF HEAD-MOUNTED DISPLAY ON WORKING POSTURE AND PHYSICAL WORKLOAD	Kazuki Hiranai, Takanori Chihara, Akihiko Seo

11:00 AM - 12:20 AM (Venue: Meeting Room 3)	Session Chair: Zhuqi XU
<u>4C</u> : Energy and Environment Management (2) (3 Papers)	
RESEARCH ON CORRELATION BETWEEN EXPORT	Chaofan Yang, Shengling Bai,
TAX REBATE ADJUSTMENT AND INDUSTRIAL	Lu Bai
EMISSION	
SPATIAL ANALYSIS OF UNDERGROUND WATER	Hui Zou, Zhihong Zou,
QUALITY USING MULTIVARIATE STATISTICAL	Xiaojing Wang
TECHNIQUES IN SHUNYI DISTRICT, BEIJING	
CARBON ASSET ASSESSMENT FOR NEW	Liyan Han, Guobin Sun,
TECHNOLOGY AND ENVIRONMENTAL RISK	Jia Kong, Yang Liu

1:20 PM - 2:40 PM (Venue: Meeting Room 1)	Session Chair: Shinji INOUE
5A: Quantitative Analysis in Industrial Management (1) (2 Papers)	
Miscellaneous (2 Papers)	
QUANTITATIVE INTERDEPENDENCY ANALYSIS	Yoshinobu Tamura,
BASED ON DEEP LEARNING FOR CLOUD AND	Satoshi Ashida,
DATABASE SOFTWARE	Shigeru Yamada
METHOD FOR SELECTIVE ASSEMBLY BASED ON	Lei Li, Wenbing Chang,
ASSIGNMENT MODEL CONSIDERING TAGUCHI'S	Yiyong Xiao, Shenghan Zhou,
QUALITY LOSS	Zhengxiang Wang
MEASUREMENT OF THE SEVERITY OF	Jiantao Zhou, Jiangyuan Li,
OPPORTUNISTIC FRAUD IN AUTO BODILY INJURY	Yonghui Lin, Tao Han
LIABILITY INSURANCE: EVIDENCE FROM CHINA	
TRADE CREDIT, FINANCIAL CONSTRAINTS AND	Li Wang, Ruiqi Liu
MONETARY POLICY: EVIDENCE FROM CHINA	

1:20 PM - 2:40 PM (Venue: Meeting Room 2)	Session Chair: Ronggang ZHOU		
<u>5B</u> : Quantitative Analysis in Industrial Management (2) (4	5B: Quantitative Analysis in Industrial Management (2) (4 Papers)		
SOFTWARE QUALITY MANAGEMENT BASED ON	Takashi Sato, Shigeru Yamada		
PROCESS AND PRODUCT METRICS ANALYSIS WITH			
SOFTWARE FACTORY			
THE APPLICATION OF BP ARTIFICIAL NEURAL	Chen Hu, Shenghan Zhou,		
NETWORK IN FLIGHT DATA	Yue Xie, Wenbing Chang		
A SOFTWARE TESTING-RESOURCE ALLOCATION	Yuka Minamino,		
PROBLEM WITH MULTI-ATTRIBUTES FOR MODULE	Shinji Inoue, Shigeru Yamada		
TESTING			
MODIFIED GENETIC ALGORITHM WITH	Kyosuke Yamamoto,		
VARIABLE-LENGTH CHROMOSOMES FOR BIN	Yoshinari Yanagawa,		
PACKING PROBLEM	Ikuo Arizono		

1:20 PM - 2:40 PM (Venue: Meeting Room 3)	Session Chair: Seiko TAKI	
<u>5C</u> : Quantitative Analysis in Industrial Management (3) (4 Papers)		
KANSEI ENGINEERING STUDY OF HIROSHIMA	Yuuka Sugiyama,	
OKONOMIYAKI PACKAGE	Tatsuo Nishino,	
	Shigekazu Ishihara	
THE MODEL WITH BACKGROUND RISK FOR	Jia Zhai, Manying Bai,	
UNCERTAIN PORTFOLIO SELECTION	Junzhang Hao	
SIMULATION BY DEVELOPING LARGE-SCALE	Akimine Nishikori	
MANAGEMENT SOFTWARE SYSTEM OF		
MATHEMATICAL PLANNING ~ REVIEW AND		
FURTHER CONSIDERATIONS ~		
A MULTI-OBJECTIVE OPTIMIZATION MODEL TO	Takayuki Kataoka,	
MINIMIZE TEMPORARY WORKERS CONSIDERING	Katsumi Morikawa,	
THE DIFFICULTY OF TASKS	Katsuhiko Takahashi	

3:00 PM - 4:20 PM (Venue: Meeting Room 1) Sessio	n Chair: Akimine NISHIKORI
6A: Quantitative Analysis in Industrial Management (4) (2 Papers)	
Energy and Environment Management (3) (2 Papers)	
SETUP TIME MINIMIZATION IN ASSEMBLING	Masato Aohara,
PRINTED CIRCUIT BOARDS USING MATHEMATICAL	Katsumi Morikawa, Keisuke
PROGRAMMING MODELS	Nagasawa,
TROOM WHITE TO BEEN	Katsuhiko Takahashi
ANALYSIS AND IMPROVEMENT PLANS FOR	Koki Karube, Tetsuo Yamada,
REHABILITATION SCHEDULE AND SERVICE TIMES:	Masato Takanokura,
A DAY CARE NURSING HOME	Munenori Kakehi, Seiko Taki
STUDY ON THE RELATIONSHIP BETWEEN	Bei Wang, Yan Zou
DEFERRED INCOME TAX AND THE EARNINGS	
MANAGEMENT OF LISTED COMPANIES	
CAN AN EMISSION TRADING SCHEME PROMOTE	Lei Zhu, Yuan Li,
THE OUTDATED CAPACITY WITHDRAWAL IN	Xu Wang
ENERGY-INTENSIVE SECTORS? -A CASE STUDY ON	
CHINA'S IRON AND STEEL INDUSTRY	

3:00 PM - 4:20 PM (Venue: Meeting Room 2)	Session Chair: Dongwen TIAN	
6B: Quantitative Analysis in Industrial Management (5) (4 Papers)		
DEVELOPMENT OF SERVICE OPERATION ANALYSIS	Hiroki Okubo	
METHOD USING THE CASE STUDY OF RETAIL		
STORE		
PROJECT SELECTION STUDY BY THE ORDINAL	Ruiping Liu, Huiwen Wang	
OPTION MODEL OF COMPOSITIONAL DATA		
DISPATCHING RULE GENERATION FOR MINIMIZING	Ryosuke Tamura,	
THE AVERAGE TOTAL WAITING TIME IN A	Katsumi Morikawa,	
HOSPITAL	Keisuke Nagasawa,	
HOSI TIAL	Katsuhiko Takahashi	
STATISTICAL PREDICTION OF SOFTWARE QUALITY	Shinji Inoue,	
BASED ON GENERALIZED LINEAR MODELS	Shigeru Yamada	

3:00 PM - 4:20 PM (Venue: Meeting Room 3)	Session Chair: Yukihiro MATSUBARA	
6C: Practice and Experiences in Industrial Management (2) (4 Papers)		
THE IMPACT OF SOCIAL CAPITAL	AND Liang Shuyu, Ding Ronggui,	
ENTREPRENEURIAL OPPORTUNITY FOR THE	NEW Yasuhiro Kajihara	
VENTURE PERFORMANCE IN THE START-UP ST.	AGE	
STUDY ON THE EVALUATION OF HIGH-	TECH Xiaoling Si, Guozhu Jia,	
ENTERPRISES R&D EFFICIENCY AND STRATE	EGIES Liang Chen, Xin Zhang,	
BASED ON KNOWLEDGE MANAGEMENT	Peng Sun, Shichang Luan	
THE ENHANCEMENT OF EMPLPO	OYEE Yu Yating, Liang Shuyu,	
SATISFACTION IN A DOCUMENT MAC	HINE Yasuhiro Kajihara,	
MANUFACTURING COMPANY	Kiyoshi Fukunaga	
A STUDY ON SHIMIZU'S "GLOBAL	IZED Wensu Wang, Yu Zhao,	
DEVELOPMENT-STAGE MODEL" AND SEV	ERAL Zhong Shao	
PROBLEMS OF JAPANESE COMPANIES IN CHINA	A	

4:40 PM - 5:40 PM (Venue: Meeting Room 1)	Session Chair: Yoshiaki ISHIHARA
7A: Quantitative Analysis in Industrial Management (6) (3 Papers)	
EVALUATION OF CARE SERVICES USING THE KAN	IO Yusaku Takehara,
MODEL AND ITS APPLICATION	Tatsuya Kurokawa,
	Hironori Takimoto,
	Akihiro Kanagawa
QUALITY ESTIMATION AND QUALITY CHOICE FO	OR Dongwen Tian, Ping Zhang,
CHINESE MANUFACTURING PRODUCTS	Zixuan Tan, Yawei Jiang
THE IMPACT OF CORPORATE GOVERNANCE C	ON Takuma Enomoto,
THE MANAGEMENT FORECASTS ACCURACY (OF Ryuta Tsubouchi,
COMPANIES IN BANKRUPTCY IN JAPAN	Ling Feng

4:40 PM - 6:20 PM (Venue: Meeting Room 2)	Session Chair: Ning ZHOU
7B: Ditital Factory (2) (5 Papers)	
SURFACE SHAPES ANALYSIS OF WELDED	Yun Feng, Seiko Taki,
MATERIALS FOR TRANSFERRING SHIELDED METAL	Ryoki Tamura,
ARC WELDING SKILLS	Yasuhiro Kajihara,
	Yoshiaki Matsuo
THE RELATIONSHIP BETWEEN USER ATTENTION	Chengqing Huang, Yuan Wei,
AND FIRM PERFORMANCE FOR CHINESE INTERNET	Huiwen Wang
INDUSTRY	
A METHOD FOR ASESSING WORK POSTURES USING	Yuto Imai, Liang Shuyu,
KINECT SENSOR	Yasuhiro Kajihara,
	Yoshiomi Munesawa,
	Masanobu Eguchi
IMAGE DEBLURRING USING SPECTRAL ANALYSIS	Masaaki Nagaoka,
OF MESH DIVISION REGION	Hitoshi Yamauchi
A STUDY ON MEASUREMENT METHOD OF	Shuichi Tokunaga,
SCULPTURE MATERIAL POSITION FOR VIRTUAL	Yuji Kondoh,
SCULPTURE TRAINING SYSTEM	Ryuuya Kashihara,
SCOLI TORE TRAINING STSTEM	Hirokazu Osaki

4:40 PM - 6:20 PM (Venue: Meeting Room 3)	Session Chair: Mitsuru JINDAI
7C: Production Management (3) (5 Papers)	
THE IMPACT OF GOVERNMENT REGULATION ON	Yanhong Ma, Qiuhong Zhao
SAFETY EFFORT DECISION: FROM A COMPANY'S	
PERSPECTIVE	
STUDY ON PRODUCTIVITY OF SERVICE INDUSTRY	Hirokazu Osaki, Wen Tang,
BASED ON WORK ELEMENT	Akio Ijiri
AN EFFICIENT SOLUTION APPROACH BASED ON	Yue Xie, Yiyong Xiao,
HIERARCHICAL DECOMPOSITION FOR FACILITY	Shenghan Zhou,
LAYOUT PROBLEM	Wenbing Chang
A SCHEDULING PROBLEM OF THE MIXED MODEL	Hugejile, Shuki Jo,
ASSEMBLY LINE CONSIDERING WORK LOAD	Xue Ge
LEVELING IN SPS PICKING AREA	
MIXED-MODEL ASSEMBLY LINE PROBLEM WITH	Kenji Kurashige,
CONSIDERATION OF CONVEYER SPEED	Yoshinari Yanagawa

III. FACTORY TOUR SCHEDULE

9:00 The Bus for Group A will start from the ANA Crowne Plaza Hiroshima.

The Bus for Group B will start from the International Youth House.

Group List will be posted near the registration desk.

NOTICE: Please check out of the hotel until 8:45

9:30 - 12:00 Factory Tour, Mazda Motor Corporation

Tourist Information

English http://www.hiroshima-navi.or.jp/en/information/ Chinese http://www.hiroshima-navi.or.jp/cn/information/

Hiroshima Free Wi-Fi

The City of Hiroshima has been offering free public LAN service (Hiroshima Free Wi-Fi and Hiroshima Free Wi-Fi Lite) around Hiroshima City.

Access Point:

Hiroshima City Bunka Koryu Kaikan (1F Front Desk Lobby) JMS Aster Plaza (1F General Counter Vicinity), etc.

Prepare the appropriate Wi-Fi devices.

- 1. On the Wi-Fi settings screen of your device, please select SSID "Hiroshima Free Wi-Fi".
- 2. When you open the web browser (Internet Explorer, etc.) the usage registration screen will show. (For language options other than Japanese, select the appropriate language here.)
- 3. After confirming the Terms of Service, tap "I agree".
- 4. Enter your name and e-mail address.
- 5. After confirming the security level, tap "I agree".
- 6. After connecting to the internet the Hiroshima City tourism information website (Hiroshima Navigator) English page will automatically open. (To view other pages, you may visit your bookmarked pages or enter the URL for the page you want to go to.)

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